### **Pilot and Signaling Devices**

The GE push button offering includes a complete line of control units and stations in both full size (30 mm) push buttons and in smaller size (22 mm) devices which are designed to be used in numerous types of industrial applications.

The CR104P full-size, heavy-duty oiltight and watertight line is complete with a variety of accessories and enclosures. These push buttons are especially adapted to heavy duty service in almost any application including those where water and oil coolant is present. All units are suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those applications. Standard contact blocks are supplied with IP 10 back-of-hand protection to comply with UL 508 Section 39A requirements for door mounted devices.

GE's C-2000 22mm Global Push Buttons are designed to be applied in just about any application worldwide. C-2000 push buttons conform to all major world standards and are UL listed and CSA Certified. All devices except the double push button are rated for NEMA 1, 3, 3R, 3S, 4, 4X, 12, 13, and IP66 when mounted in a suitable enclosure. C-2000 push buttons are manufactured in an ISO 9000 facility, assuring you that these products comply with quality standards that are recognized worldwide. Preengraved nameplates are available in French, Spanish, Italian, German, and English. The C-2000 push button line is globally available under the same product numbers, packaging, and markings anywhere in the world.

An entire listing of CR2943 and CR2941 standard-duty push button control stations is available, suitable for NEMA Type 1, 4 4X, and 7 and 9 applications.



### Reference Publications

See Publication Index, Section 17.

# Heavy-Duty 30.5 mm Watertight/Oiltight Push Buttons (CR104P)

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## Heavy-Duty 22.5 mm Watertight/Oiltight Push Buttons (C-2000)

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**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

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Push Buttons
600 Volts Maximum AC/DC

**10 Amperes Continuous** 

### Description

Standard and illuminated push buttons and selector switches are available as both key and conventional operators. The CR104P line also includes push-to-test and standard pilot lights, mush-room-head push buttons, joysticks, and push-pull and push-push operators.

Chrome-plated octagonal mounting rings project an attractive, high-quality appearance. Positive feel selector switches offer a quality touch in all illuminated and non-illuminated, maintained and spring return units.

### **Application**

Especially adapted to machine-tool service or any application where oil or coolant is present. The convenient one-hole mounting makes this line suitable for general-purpose use in equipment of all kinds where panel mounting is possible. This line is ideal for applications where oil-tightness, water-tightness and long life are essential.

All units are suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications. The exception is CR104PTP units, which are suitable for Type 1, 12, and 13 applications only. Although not needed on all Type 4X applications, protective caps provide improved resistance to some corrosive materials. They are not required by UL.

### **Features**

- Ease of Assembly: One-screw contact block mounting.
   Octagonal ring provides ease in front panel mounting and enclosure applications.
- —Greater Torque: Due to the eight-sided ring design, greater torque can be developed during assembly and installation to provide oil-tightness.
- —Stocking Inventories Reduced: Forms may be furnished as complete units or as components, allowing building-block construction from a minimum of stock. The latter may provide faster service.
- —Color Coded: Colored knobs and caps are available in kit forms for easy field conversion.

### **Product Number Selection Instructions**

Selection of CR104P push buttons from the following pages is done in one of two ways: (1) one-step selection and pricing, in which items are selected from a single table and (2) step-by-step selection and pricing, in which you follow a sequence of steps to build the product number and list price for the product(s) you need. In either case, follow the instructions provided and order by complete product number.

Example: CR104PBG91B1 at \$34.20, GO-10P1. Product numbers and prices do not include nameplates, which must be ordered separately from pages 9-40 and 9-41.



Section 9

30.5 mm Heavy-Duty Push Buttons



Push Buttons Lamp Selection 600 Volts Maximum AC/DC 10 Amperes Continuous

### **Lamp Selection**

Incandescent, neon, and light emitting diode (LED) lamps are available for use in indicating lights, illuminated push buttons, and illuminated selector switches. Incandescent lamps have traditionally been the most frequently used, but it is wise to review the characteristics of the different types of lamps and select the one that is most appropriate for the application. Although the incandescent lamp offers the lowest initial cost, the LED is usually the most economical over the long term, due to its long life, resistance to shock and vibration, and lower power consumption. Benefits of LEDs include:

Resistance to Shock and Vibration—Since LEDs are sold state, they are completely impervious to the problems associated with shock and vibration that can significantly reduce the life of incandescent lamps by mechanically breaking the filament. The high inrush currents at startup associated with incandescents also act to significantly reduce the life of lamps used in frequent on-off applications.

**Longer Life**—The LEDs used with CR104P push buttons have a service life of 100,000 hours (11 years) compared to 20,000 hours (28 months) for the neon lamps, and 2,000 hours (3 months) for the standard incandescent lamps.

**Reduced Power Consumption**—The LEDs used for the CR104P push buttons consume between 10% and 52% less power than the equivalent incandescent lamp. The table below shows the power consumption of each type.

Lower Operating Temperature— Because of the lower power consumption and greater efficiency of LEDs, they operate much cooler than incandescent lamps. Thus, in applications where heat in the enclosure could be a problem, LED lamps are a better choice. Incandescent bulbs are recommended for lightduty applications and panels not subject to shock and vibration. Neon lamps offer a middle ground, at a cost and performance between the LED and the incandescent, but can have problems associated with flicker induced by noise and frequency. LED lamps offer the best overall performance for the long term.

### **Lamp Comparison**

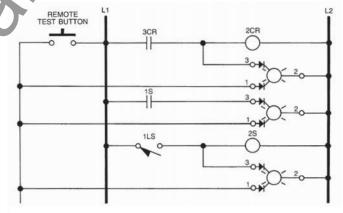
Bulb Type	Lifespan (Hours)	Shock & Vibration Immunity	Operating Temperature	Power Consumption	Brightness
LED	100,000	High	Medium	Medium	Medium
Incandescent	2,000	Low	High	High	High
Neon	20,000	Medium	Low	Low	Low

### **Potentiometers**

Resistance	100 ohms ± 10% (list resistance by product number)
End Resistance	4 ohms maximum
Dielectric Strength	1000 Vac
2 Watts Maximum at 70°	CC

# Dual Input Illuminated Push Buttons (also called Remote Test Lights)

Dual input illuminated push buttons and indicating lights allow a number of lights to be tested from a single test button without operating the control circuit. A dual input illuminated push button without contacts becomes a remote test indicating light.



Typical wiring diagram for remote test of lights using dual input "Remote Test" Lights.

9-3

### **Power Consumption**

Volts AC/DC	Incandescent CR104P	Watts	LED CR104P	Watts	Neon CR104P	Watts
6 (20,000 hours)	XA16	.95	XA36*	0.54	-	_
12 (15,000 hours)	XA12	1.12	XA32*	0.72	_	_
24 (2,500 hours)	XA14	1.12	XA34*	0.72	_	_
120 (telephone slide)	XA52	3	-	_	-	_
130 (miniature bayonet)	XA54	2.6	XA38*	1.2	XA19	0.077
240	XA52	3	-	_	-	_
120	XA15	3	_	_	_	_
12	XA22	.96	-	_	-	_
24	XA24	1.12	-	_	-	_
6	XA26	1.2	-	-	_	_
	6 (20,000 hours) 12 (15,000 hours) 24 (2,500 hours) 120 (telephone slide) 130 (miniature bayonet) 240 120 12	Volts AC/DC         CR104P           6 (20,000 hours)         XA16           12 (15,000 hours)         XA12           24 (2,500 hours)         XA14           120 (telephone slide)         XA52           130 (miniature bayonet)         XA54           240         XA52           120         XA15           12         XA22           24         XA24	Volts AC/DC         CR104P         Watts           6120,000 hours         XA16         .95           12 (15,000 hours)         XA12         1.12           24 (2,500 hours)         XA14         1.12           120 (telephone slide)         XA52         3           130 (miniature boyonet)         XA54         2.6           240         XA52         3           120         XA15         3           12         XA22         .96           24         XA24         1.12	Volts AC/DC         CR104P         Watts         CR104P           6120,000 hours         XA16         .95         XA36*           12 (15,000 hours)         XA12         1.12         XA32*           24 (2,500 hours)         XA14         1.12         XA34*           120 (telephone slide)         XA52         3         -           130 (miniature bayonet)         XA54         2.6         XA38*           240         XA52         3         -           120         XA15         3         -           12         XA22         .96         -           24         XA24         1.12         -	Volts AC/DC         CR104P         Watts         CR104P         Watts           6120,000 hours         XA16         .95         XA36*         0.54           12 (15,000 hours)         XA12         1.12         XA32*         0.72           24 (2,500 hours)         XA14         1.12         XA34*         0.72           120 (telephone slide)         XA52         3         -         -           130 (miniature bayonet)         XA54         2.6         XA38*         1.2           240         XA52         3         -         -           120         XA15         3         -         -           12         XA22         .96         -         -           24         XA24         1.12         -         -	Volts AC/DC         CR104P         Watts         CR104P         Watts         CR104P           6120,000 hours         XA16         .95         XA36*         0.54         —           12 (15,000 hours)         XA12         1.12         XA32*         0.72         —           24 (2,500 hours)         XA14         1.12         XA34*         0.72         —           120 (telephone slide)         XA52         3         —         —         —           130 (miniature bayonet)         XA54         2.6         XA38*         1.2         XA19           240         XA52         3         —         —         —           120         XA15         3         —         —         —           12         XA22         .96         —         —         —           24         XA24         1.12         —         —         —

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**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

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**CR104P** 

Standard Non-Illuminated 600 Volts Maximum AC/DC **10 Amperes Continuous** 

### **Common Forms**

One-step selection and pricing of common assembled forms.

Units are supplied factory-assembled when ordered with contact blocks.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

### Flush Button - Momentary Operator

			List Price
Contact Configuration	Color	Product Number	GO-10P1
None (Operator Only)	Black	CR104PBG00B1	\$16.20
None (Operator Only)	Red	CR104PBG00R1	\$16.20
None (Operator Only)	Green	CR104PBG00G1	\$16.20
None (Operator Only)	1 Each: Red, Green, Yellow, Black	CR104PBG00U1 <sup>1</sup>	\$16.20
None (Operator Only)	1 Each: Brown, Blue, Orange, White	CR104PBG00V1 <sup>1</sup>	\$16.20
None (Operator Only)	Other	CR104PBG00*1 <sup>2</sup>	\$15.90
1NO-1NC	Black	CR104PBG91B1	\$34.20
1NO-1NC	Red	CR104PBG91R1	\$34.20
1NO-1NC	Green	CR104PBG91G1	\$34.20
1NO-1NC	1 Each: Red, Green, Yellow, Black	CR104PBG91U1 <sup>1</sup>	\$34.20
1NO-1NC	1 Each: Brown, Blue, Orange, White	CR104PBG91V1 <sup>1</sup>	\$34.20
1NO-1NC	Other	CR104PBG91*1 <sup>2</sup>	\$33.90
2NO-2NC	Black	CR104PBG92B1	\$52.20
2NO-2NC	Red	CR104PBG92R1	\$52.20
2NO-2NC	Green	CR104PBG92G1	\$52.20
2NO-2NC	1 Each: Red, Green, Yellow, Black	CR104PBG92U1 <sup>1</sup>	\$52.20
2NO-2NC	1 Each: Brown, Blue, Orange, White	CR104PBG92V1 <sup>1</sup>	\$52.20
2NO-2NC	Other	CR104PBG92*1 <sup>2</sup>	\$51.90
1NO	Black	CR104PBG10B1	\$25.20
1NO	Red	CR104PBG10R1	\$25.20
1NO	Green	CR104PBG10G1	\$25.20
1NO	1 Each: Red, Green, Yellow, Black	CR104PBG10U1 <sup>1</sup>	\$25.20
1NO	1 Each: Brown, Blue, Orange, White	CR104PBG10V1 <sup>1</sup>	\$25.20
1NO	Other	CR104PBG10*12	\$24.90
1NC	Black	CR104PBG01B1	\$25.20
1NC	Red	CR104PBG01R1	\$25.20
1NC	Green	CR104PBG01G1	\$25.20
1NC	1 Each: Red, Green, Yellow, Black	CR104PBG01U1 <sup>1</sup>	\$25.20
1NC	1 Each: Brown, Blue, Orange, White	CR104PBG01V1 <sup>1</sup>	\$25.20
1NC	Other	CR104PBG01*1 <sup>2</sup>	\$24.90

<sup>&</sup>lt;sup>1</sup>Supplied with 4 caps: Unassembled.

### Cap Colors Available\*

Color	Insert in place of asterisk (*)	List Price Adder, GO-10P1 Push Buttons
Yellow	E	\$0.30
Blue	L	\$0.30
Orange	M	\$0.30
Brown	N	\$0.30
White	W	\$0.30
No Cap	A	\$0.00
No Cap	A	\$0.00

Product Number Selection Instructions: See pages 9-2

**Drilling Plans and Dimensions:** See page 9-57

Nameplates: See pages 9-40 to 9-41

Technical Data: See pages 9-56 to 9-57

Flush Button

<sup>&</sup>lt;sup>2</sup>To order assembled units with a different color, substitute the letter below in place of the \* in product number and add required adder to the list price.

### **CR104P**

Standard Non-Illuminated 600 Volts Maximum AC/DC 10 Amperes Continuous

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

### **Extended Button - Momentary Operator**

Contact Configuration	Color	Product Number	List Price GO-10P1
None (Operator Only)	Black	CR104PBG00B2	\$16.20
None (Operator Only)	Red	CR104PBG00R2	\$16.20
None (Operator Only)	Green	CR104PBG00G2	\$16.20
None (Operator Only)	1 Each: Red, Green, Yellow, Black	CR104PBG00U2 <sup>1</sup>	\$16.20
None (Operator Only)	1 Each: Brown, Blue, Orange, White	CR104PBG00V2 <sup>1</sup>	\$16.20
None (Operator Only)	Other	CR104PBG00*2 <sup>2</sup>	\$15.90
1NO-1NC	Black	CR104PBG91B2	\$34.20
1NO-1NC	Red	CR104PBG91R2	\$34.20
1NO-1NC	Green	CR104PBG91G2	\$34.20
1NO-1NC	1 Each: Red, Green, Yellow, Black	CR104PBG91U2 <sup>1</sup>	\$34.20
1NO-1NC	1 Each: Brown, Blue, Orange, White	CR104PBG91V2 <sup>1</sup>	\$34.20
1NO-1NC	Other	CR104PBG91*2 <sup>2</sup>	\$33.90
2NO-2NC	Black	CR104PBG92B2	\$52,20
2NO-2NC	Red	CR104PBG92R2	\$52,20
2NO-2NC	Green	CR104PBG92G2	\$52.20
2NO-2NC	1 Each: Red, Green, Yellow, Black	CR104PBG92U2 <sup>1</sup>	\$52.20
2NO-2NC	1 Each: Brown, Blue, Orange, White	CR104PBG92V2 <sup>1</sup>	\$52.20
2NO-2NC	Other	CR104PBG92*2 <sup>2</sup>	\$51.90
1NO	Black	CR104PBG10B2	\$25.20
1NO	Red	CR104PBG10R2	\$25.20
1NO	Green	CR104PBG10G2	\$25.20
1NO	1 Each: Red, Green, Yellow, Black	CR104PBG10U2 <sup>1</sup>	\$25.20
1NO	1 Each: Brown, Blue, Orange, White	CR104PBG10V2 <sup>1</sup>	\$25.20
1NO	Other	CR104PBG10*2 <sup>2</sup>	\$24.90
1NC	Black	CR104PBG01B2	\$25.20
1NC	Red	CR104PBG01R2	\$25.20
1NC	Green	CR104PBG01G2	\$25.20
1NC	1 Each: Red, Green, Yellow, Black	CR104PBG01U2 <sup>1</sup>	\$25.20
1NC	1 Each: Brown, Blue, Orange, White	CR104PBG01V2 <sup>1</sup>	\$25.20
1NC	Other	CR104PBG01*2 <sup>2</sup>	\$24.90



**Extended Button** 

### Recessed Button - Momentary Operator

Contact Configuration	Color	Product Number	List Price GO-10P1
None (Operator Only)	Black	CR104PBG00B3	\$16.20
None (Operator Only)	Red	CR104PBG00R3	\$16.20
None (Operator Only)	Green	CR104PBG00G3	\$16.20
None (Operator Only)	1 Each: Red, Green, Yellow, Black	CR104PBG00U3 <sup>1</sup>	\$16.20
None (Operator Only)	1 Each: Brown, Blue, Orange, White	CR104PBG00V3 <sup>1</sup>	\$16.20
None (Operator Only)	Other	CR104PBG00*3 <sup>2</sup>	\$15.90
1NO-1NC	Black	CR104PBG91B3	\$34.20
1NO-1NC	Red	CR104PBG91R3	\$34.20
1NO-1NC	Green	CR104PBG91G3	\$34.20
1NO-1NC	1 Each: Red, Green, Yellow, Black	CR104PBG91U3 <sup>1</sup>	\$34.20
1NO-1NC	1 Each: Brown, Blue, Orange, White	CR104PBG91V3 <sup>1</sup>	\$34.20
1NO-1NC	Other	CR104PBG91*3 <sup>2</sup>	\$33.90
2NO-2NC	Black	CR104PBG92B3	\$52.20
2NO-2NC	Red	CR104PBG92R3	\$52.20
2NO-2NC	Green	CR104PBG92G3	\$52.20
2NO-2NC	1 Each: Red, Green, Yellow, Black	CR104PBG92U3 <sup>1</sup>	\$52.20
2NO-2NC	1 Each: Brown, Blue, Orange, White	CR104PBG92V3 <sup>1</sup>	\$52.20
2NO-2NC	Other	CR104PBG92*3 <sup>2</sup>	\$51.90
1NO	Black	CR104PBG10B3	\$25.20
1NO	Red	CR104PBG10R3	\$25.20
1NO	Green	CR104PBG10G3	\$25.20
1NO	1 Each: Red, Green, Yellow, Black	CR104PBG10U3 <sup>1</sup>	\$25.20
1NO	1 Each: Brown, Blue, Orange, White	CR104PBG10V3 <sup>1</sup>	\$25.20
1NO	Other	CR104PBG10*3 <sup>2</sup>	\$24.90
1NC	Black	CR104PBG01B3	\$25.20
1NC	Red	CR104PBG01R3	\$25.20
1NC	Green	CR104PBG01G3	\$25.20
1NC	1 Each: Red, Green, Yellow, Black	CR104PBG01U3 <sup>1</sup>	\$25.20
1NC	1 Each: Brown, Blue, Orange, White	CR104PBG01V3 <sup>1</sup>	\$25.20
1NC	Other	CR104PBG01*3 <sup>2</sup>	\$24.90



<sup>&</sup>lt;sup>2</sup>To order assembled units with a different color, substitute the letter below in place of the \* in product number and add required adder to the list price.

### Cap Colors Available\*

		List Price Adder, GO-10P1
Color	Insert in place of asterisk (*)	Push Buttons
Yellow	E	\$0.30
Blue	L	\$0.30
Orange	M	\$0.30
Brown	N	\$0.30
White	W	\$0.30
No Cap	A	\$0.00



**Recessed Button** 

9-5



**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

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Control Catalog

Control Catalog

Standard Illuminated

600 Volts Maximum AC/DC **10 Amperes Continuous** 

Suitable for use in NEMA Types 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

Extended Button without Guard - Momentary Operator

					List Price
Power Supply Type	Supply Voltage	Lamp Type <sup>1</sup>	Contact Configuration	Product Number <sup>2</sup>	GO-10P1
Transformer	120V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*1S2	\$82.20
Transformer	240V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*1S3	\$82.20
Transformer	480V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*1S4	\$82.20
Transformer	600V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*1S5	\$82.20
Full Voltage	6V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBL11*1S6	\$70.20
Full Voltage	12V 50/60 Hz	Incand., 12V, #756	1NO-1NC	CR104PBL11*1S7	\$70.20
Full Voltage	24V 50/60 Hz	Incand., 24V, #1819	1NO-1NC	CR104PBL11*1S8	\$70.20
Full Voltage	120V 50/60 Hz	Incand., 130V	1NO-1NC	CR104PBL11*1S2	\$70.20
Dual Input <sup>3</sup>	120V Dual Input	Incand., 130V	1NO-1NC	CR104PBL91*1H2	\$100.20
Full Voltage	6 VAC/DC	LED, 6V	1NO-1NC	CR104PBL11*1L6	\$88.20
Full Voltage	12 VAC/DC	LED, 12V	1NO-1NC	CR104PBL11*1L7	\$88.20
Full Voltage	24 VAC/DC	LED, 24V	1NO-1NC	CR104PBL11*1L8	\$88.20
Full Voltage	120 VAC/DC	LED, 120V	1NO-1NC	CR104PBL11*1L2	\$88.20



Dawer Cumply Type	Supply Voltage	Lamp Type <sup>1</sup>	Contact Configuratio	n Product Number <sup>2</sup>	List Price GO-10P1
Power Supply Type	Supply voltage	Lump Type-	Contact Configuratio	ii Product Nullibers	GO-10F1
Transformer	120V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*3S2	\$88.20
Transformer	240V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*3S3	\$88.20
Transformer	480V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*3S4	\$88.20
Transformer	600V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*3S5	\$88.20
Full Voltage	6V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBL11*3S6	\$76.20
Full Voltage	12V 50/60 Hz	Incand., 12V, #756	1NO-1NC	CR104PBL11*3S7	\$76.20
Full Voltage	24V 50/60 Hz	Incand., 24V, #1819	1NO-1NC	CR104PBL11*3S8	\$76.20
Full Voltage	120V 50/60 Hz	Incand., 130V	1NO-1NC	CR104PBL11*3\$2	\$76.20
Dual Input <sup>3</sup>	120V Dual Input	Incand., 130V	1NO-1NC	CR104PBL11*3H2	\$106.20
Full Voltage	6 VAC/DC	LED, 6 V	1NO-1NC	CR104PBL11*3L6	\$94.20
Full Voltage	12 VAC/DC	LED, 12 V	1NO-1NC	CR104PBL11*3L7	\$94.20
Full Voltage	24 VAC/DC	LED, 24 V	1NO-1NC	CR104PBL11*3L8	\$94.20
Full Voltage	120 VAC/DC	LED, 120 V	1NO-1NC	CR104PBL11*3L2	\$94.20

<sup>&</sup>lt;sup>1</sup>All lamps miniature bayonet bases.

### **Push-Push Maintained Operator**

The push-push operated units are 2-position, maintained contact push buttons. They are assembled, ready for installation, except for the required nameplate which must be ordered as a separate item. Two single-circuit contact blocks are the maximum number that can be installed on the operator. All normally open contacts must be the early closing type.

Power Supply Type	Voltage (60/50 Hz)	Lamp Type <sup>1</sup>	Contact Configuration <sup>3</sup>	Color	Product Number	List Price GO-10P1
Full Voltage	120 V	Incand., 6V, #755_	1NC-1NO	Red	CR104PBT11R1B2	\$100.20
Full Voltage	120 V	Incand., 6V, #755	1NC-1NO	Green	CR104PBT11G1B2	\$100.20
Full Voltage	120 V	Incand., 6V, #755	1NC-1NO	Yellow	CR104PBT11E1B2	\$100.20
Full Voltage	120 V	Incand., 6V, #755	1NC-1NO	Blue	CR104PBT11L1B2	\$100.20
Full Voltage	120 V	Incand., 6V, #755	1NC-1NO	Amber	CR104PBT11M1B2	\$100.20
Full Voltage	120 V	Incand., 6V, #755	1NC-1NO	Clear	CR104PBT11C1B2	\$100.20
Full Voltage	120 V	Incand., 6V, #755	1NC-1NO	White	CR104PBT11W1B2	\$100.20

Product number and price do not include nameplate. Nameplates must be ordered as separate item from pages 9-40 to 9-41. Resistor-type illuminated push button units are available. Contact your nearest GE Consumer & Industrial Rep.

### Lens Colors Available\*

Color	Insert in place of asterisk (*)
No Lens Cap	♠ A <sup>4</sup>
Clear <sup>5</sup>	С
Yellow	E
Green	G
Blue	L
Amber	M
Red	R
White	W

<sup>&</sup>lt;sup>4</sup>Subtract **\$4.20**.



Section 9





**Extended with Guard** 



Push-Push. Illuminated Push Button

Lamps: See pages 9-35 Nameplates: See pages 9-40 to 9-41 Technical Data: See pages 9-56 to 9-57

Drilling Plans and Dimensions: See page 9-57 Product Number Selection Instructions: See pages 9-2

<sup>&</sup>lt;sup>2</sup>Replace asterisk (\*) in product number with letter from chart below.

<sup>&</sup>lt;sup>3</sup>See page 9-3 for dual input wiring diagram.

<sup>&</sup>lt;sup>5</sup>Not available as LED.

Mushroom-Head Non-Illuminated 600 Volts Maximum AC/DC 10 Amperes Continuous

One-step selection and pricing of common assembled forms.

Units are supplied factory-assembled when ordered with contact blocks, except 2 3/8" diameter mushroom-head, which is unattached.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

### 1 3/8" Diameter - Momentary Operator

			List Price
Contact Configuration	Color	Product Number	GO-10P1
None (Operator Only)	Black	CR104PBM00B5	\$34.20
None (Operator Only)	Red	CR104PBM00R5	\$34.20
None (Operator Only)	Other	CR104PBM00*5 <sup>1</sup>	\$28.20
1NO-1NC	Black	CR104PBM91B5	\$52.20
1NO-1NC	Red	CR104PBM91R5	\$52.20
1NO-1NC	Other	CR104PBM91*5 <sup>1</sup>	\$46.20
2NO-2NC	Black	CR104PBM92B5	\$70.20
2NO-2NC	Red	CR104PBM92R5	\$70.20
2NO-2NC	Other	CR104PBM92*5 <sup>1</sup>	\$64.20
1NO	Black	CR104PBM10B5	\$43.20
1NO	Red	CR104PBM10R5	\$43.20
1NO	Other	CR104PBM10*5 <sup>1</sup>	\$37.20
1NC	Black	CR104PBM01B5	\$43.20
1NC	Red	CR104PBM01R5	\$43.20
1NC	Other	CR104PBM01*5 <sup>1</sup>	\$37.20

### 2 3/8" Diameter - Momentary Operator

			List Price
Contact Configuration	Color	Product Number	GO-10P1
None (Operator Only)	Black	CR104PBM00B6	\$34.20
None (Operator Only)	Red	CR104PBM00R6	\$34.20
None (Operator Only)	Other	CR104PBM00*6 <sup>1</sup>	\$28.20
1NO-1NC	Black	CR104PBM91B6	\$52.20
1NO-1NC	Red	CR104PBM91R6	\$52.20
1NO-1NC	Other	CR104PBM91*6 <sup>1</sup>	\$46.20
2NO-2NC	Black	CR104PBM92B6	\$70.20
2NO-2NC	Red	CR104PBM92R6	\$70.20
2NO-2NC	Other	CR104PBM92*6 <sup>1</sup>	\$64.20
1NO	Black	CR104PBM10B6	\$43.20
1NO	Red	CR104PBM10R6	\$43.20
1NO	Other	CR104PBM10*6 <sup>1</sup>	\$37.20
1NC	Black	CR104PBM01B6	\$43.20
1NC	Red	CR104PBM01R6	\$43.20
1NC	Other	CR104PBM01*6 <sup>1</sup>	\$37.20

### 1 3/8" Diameter Push-to-latch, turn-to-release

			LIST PITCE
Contact Configuration	Color	Product Number	GO-10P1
None (Operator Only)	Red	CR104PTR20A0R	\$52.20
1NO-1NC	Red	CR104PTR20A0R91	\$70.20
2NO-2NC	Red	CR104PTR20A0R92	\$88.20
1NO	Red	CR104PTR20A0R1	\$61.20
1NC	Red	CR104PTR20A0R01	\$61.20

<sup>1</sup>To order assembled units with a different color, substitute the letter below in place of the \* in product number and add required adder to the list price.

### **Push-Pull Maintained Operator**

Contact Configuration	Color	Product Number	List Price GO-10P1
1 NC	Red	CR104PBM01R5C	\$61.20
1 NC	Red	CR104PBM0LR5D	\$61.20
1 NC	Red	CR104PBM0LR5E	\$61.20

### Cap Colors Available\*

Color	Insert in place of asterisk (*)	List Price Adder, GO-10P1 Mushroom Heads
Yellow	E	\$6.00
Green	G	\$6.00
Blue	Ĺ	\$6.00
Orange	М	\$6.00
Brown	N	\$6.00
White	W	\$6.00
No Cap	A	\$0.00



1 3/8" Mushroom Head



2 3/8" Mushroom Head



Push-to-Latch, Turn-to-Release

9-7



**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

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Control Catalog

Control Catalog

Mushroom-Head 600 Volts Maximum AC/DC **10 Amperes Continuous** 

Suitable for use in NEMA Types 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications.

13/8" Diameter Illuminated - Momentary Operator

					List Price
Power Supply Type	Supply Voltage	Lamp Type <sup>1</sup>	<b>Contact Configuration</b>	Product Number <sup>2</sup>	GO-10P1
Transformer	120V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*5S2	\$96.20
Transformer	240V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*5S3	\$96.20
Transformer	480V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*5S4	\$96.20
Transformer	600V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*5S5	\$96.20
Full Voltage	6V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBL11*5S6	\$84.20
Full Voltage	12V 50/60 Hz	Incand., 12V, #756	1NO-1NC	CR104PBL11*5S7	\$84.20
Full Voltage	120V 50/60 Hz	Incand., 24V, #1819	1NO-1NC	CR104PBL11*5S8	\$84.20
Full Voltage	240V 50/60 Hz	Incand., 130V	1NO-1NC	CR104PBL11L5S2	\$84.20
Full Voltage	6 VAC/DC	LED, 6V	1NO-1NC	CR104PBL11*5L6	\$102.20
Full Voltage	12 VAC/DC	LED, 12V	1NO-1NC	CR104PBL11*5L7	\$102.20
Full Voltage	24 VAC/DC	LED, 24V	1NO-1NC	CR104PBL11*5L8	\$102.20
Full Voltage	120 VAC/DC	LED, 120V	1NO-1NC	CR104PBL11*5L2	\$102.20



Power Supply Type	Supply Voltage	Lamp Type <sup>1</sup>	Contact Configuratio	n Product Number <sup>2, 3</sup>	List Price GO-10P1
Transformer	120V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*7S2	\$96.20
Transformer	240V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*7S3	\$96.20
Transformer	480V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*7S4	\$96.20
Transformer	600V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*7S5	\$96.20
Full Voltage	6V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBL11*7S6	\$84.20
Full Voltage	12V 50/60 Hz	Incand., 12V, #756	1NO-1NC	CR104PBL11*7S7	\$84.20
Full Voltage	120V 50/60 Hz	Incand., 24V, #1819	1NO-1NC	CR104PBL11*7S8	\$84.20
Full Voltage	240V 50/60 Hz	Incand., 130V	1NO-1NC	CR104PBL11*7\$2	\$84.20
Full Voltage	6 VAC/DC	LED, 6V	1NO-1NC	CR104PBL11*7L6	\$102.20
Full Voltage	12 VAC/DC	LED, 12V	1NO-1NC	CR104PBL11*7L7	\$102.20
Full Voltage	24 VAC/DC	LED, 24V	1NO-1NC	CR104PBL11*7L8	\$102.20
Full Voltage	120 VAC/DC	LED, 120V	1NO-1NC	CR104PBL11*7L2	\$102.20

<sup>&</sup>lt;sup>1</sup>All lamps miniature bayonet bases.

### **Lens Colors Available\***

Color	Insert in place of asterisk (*)
No Lens Cap	A <sup>4</sup>
Clear <sup>5</sup>	C
Yellow	E
Green	G
Blue	L
Amber	М
Red	R
White	W

<sup>&</sup>lt;sup>4</sup>Subtract **\$4.20**.



Section 9

uminated Mushroom-Head **Push Button** 

Lamps: See pages 9-35 Nameplates: See pages 9-40 to 9-41 Technical Data: See pages 9-56 to 9-57 **Drilling Plans and Dimensions:** See page 9-57 Product Number Selection Instructions: See pages 9-2

<sup>&</sup>lt;sup>2</sup>Replace asterisk (\*) in product number with letter from chart below.

<sup>&</sup>lt;sup>3</sup>1 5/8" mushroom-head push buttons are special order—nonstock.

<sup>&</sup>lt;sup>5</sup>Not available as LED.

Key Operated 600 Volts Maximum AC/DC 10 Amperes Continuous

Product Number and price do not include nameplate. All nameplates must be ordered as a separate item. Four single-circuit or four double-circuit contact blocks are maximum number that can be assembled to cylinder lock operators.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will provide improved corrosion resistance.

### **Operator Alone**

			List Price
Position Type	Release Type	Product Number	GO-10P1
Lock in Depressed and Free Positions	-	CR104PBK00A1J	\$52.20
Lock Only in Free Position	-	CR104PBK00A1K	\$52.20
Lock Only in Depressed Position	-	CR104PBK00A1L	\$52.20
-	Push-To-Latch,	CR104PBK00A1M	\$52.20
	Key Operate To Reset		

Select contact blocks from page 9-34.

### **Assembled Operator**

Position Type	Release Type	Contact Configuration	Product Number	List Price GO-10P1
Lock in Depressed and Free Positions	-	1NO-1NC	CR104PBK91A1J	\$70.20
Lock Only in Free Position	-	1NO-1NC	CR104PBK91A1K	\$70.20
Lock Only in Depressed Position	-	1NO-1NC	CR104PBK91A1L	\$70.20
-	Push-To-Latch,	1NO-1NC	CR104PBK91A1M	\$70.20
	Key Operate To Reset			



**Key Operated Push Button** 



**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

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Special Function
Non-Illuminated
600 Volts Maximum AC/DC

**10 Amperes Continuous** 

Product Number and price do not include nameplate. All nameplates must be ordered as a separate item. Four single-circuit or four double-circuit contact blocks are maximum number that can be assembled to cylinder lock operators.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will provide improved corrosion resistance.

### **Push-Push**

The push-push operated units are 2-position, maintained contact push buttons. They are assembled, ready for installation, except for the required nameplate which must be ordered as a separate item. Two single-circuit contact blocks are the maximum number that can be installed on the operator. All normally open contacts must be the early closing type.

			List Price
Contact Configuration <sup>1</sup>	Color	Product Number	GO-10P1
1NC-1NO	Black	CR104PBG11B1B	\$52.20
1NC-1NO	Red	CR104PBG11R1B	\$52.20
1NC-1NO	Green	CR104PBG11G1B	\$52.20
1NC-1NO	Yellow	CR104PBG11E1B	\$52.20
1NC-1NO	Blue	CR104PBG11L1B	\$52.20
1NC-1NO	Orange	CR104PBG11M1B	\$52.20
1NC-1NO	Brown	CR104PBG11N1B	\$52.20
1NC-1NO	White	CR104PBG11W1B	\$52.20

<sup>&</sup>lt;sup>1</sup>Supplied with one NO (early make) and one NC single-circuit contact block.



Section 9

Push-Push, Non-Illuminated
Push Button

Left Right

**Contact Configuration** 



		List Price
Color	Product Number	GO-10P1
Black	CR104PBG99B1	\$106.20
Red	CR104PBG99R1	\$106.20
Green	CR104PBG99G1	\$106.20
No Cap	CR104PBG99A1	\$105.90
Yellow	CR104PBG99E1	\$106.20
Blue	CR104PBG99L1	\$106.20
Orange	CR104PBG99M1	\$106.20
Brown	CR104PBG99N1	\$106.20
White	CR104PBG99W1	\$106.20
	Black Red Green No Cap Yellow Blue Orange Brown	Black         CR104PBG99B1           Red         CR104PBG99R1           Green         CR104PBG99G1           No Cap         CR104PBG99B1           Yellow         CR104PBG99E1           Blue         GR104PBG99L1           Orange         CR104PBG99M1           Brown         CR104PBG99N1



**Time-Delay Push Button** 

Nameplates: See pages 9-40 to 9-41 Technical Data: See pages 9-56 to 9-57 Drilling Plans and Dimensions: See page 9-57

**Product Number Selection Instructions:** See pages 9-2

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### **CR104P**

Special Function Non-Illuminated Push-Turn 600 Volts Maximum AC/DC 10 Amperes Continuous

Suitable for use in NEMA Types 1, 12, and 13 applications when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.



Push-Turn Unit

### 2-Position

2-Position						
Co	ntact	State				
Push Position	•		osition	<u>)</u>	Product Number <sup>1</sup>	List Price GO-10P1
Free	0 <b>1</b> 0	010	0 0	0 0	CR104PTP26E0*92	\$70.20
Depressed	00	0 0	0 <b>1</b> 0	••		******
Free	0 0	0 0	0 0	0 0	CR104PTP26D0*92	\$70.20
Depressed	000	••	000	0 0		
Free	0	0	0	ိ	CR104PTP21B0*91	\$52.20
Depressed	6	٥	δ	٥		
Free	0	0	ō	0	CR104PTP22B0*91	\$52.20
Depressed	o	ိ	δ	ိ		
Free	0.0	000	0.0	0 0	CR104PTP22B0*92	\$70.20
Depressed	00	••	000	00		<b>^</b>
Free	000	0 0	0 0	0 0	CR104PTP22D0*92	\$70.20
Depressed	00	•••	••	0 0		
Free	0 0	0 0	000	0.0	CR104PTP21C0*92	\$70.20
Depressed	000	0.0	0,0	00		
Free	0 0	0 0	000	••	CR104PTP23C0*92	\$70.20
Depressed	90	0 0	*	00		
Free	0 0	0 0	000	00	CR104PTP23B0*92	\$70.20
Depressed	9 9 9 9	970 9-9	9-9	00		
Free	0 0	0 0	00	••	CR104PTP24C0*92	\$70.20
Depressed	000	0.0	**	<del>-</del>		
Free	0 0	<b>•</b> •	0 0	•••	CR104PTP24E3*92	\$70.20
Depressed	00	0 0	-	<u>دگو</u>		
Free	0 0	0 0	00	00	CR104PTP25B3*92	\$70.20
Depressed	000	000	<del>6</del> 63	Į <sup>2</sup>		

### **3-Position**

	Contact				
		Turn Position		1	List Price
Push Position	0	O	<b>②</b>	Product Number <sup>1</sup>	GO-10P1
Free		0000	0000	CR104PTP31E0*92	\$70.20
Depressed	0000			CNIO4FIFJILO 32	\$70.20
Free	<b>o</b> o o o	0000	0000	CR104PTP31E2*92	\$70.20
Depressed		° ° × ° ° °	0000	CN104F1F31E2 32	\$70.20
Free	0 0	0.0	00	CR104PTP34E6*91	\$52.20
Depressed	••	<u>~.</u> ° ¥	<b>%</b> ¥	CK1041 11 34E0 31	Ψ32.20
Free	。。。。。 。。。。。	0.0 0.0	0 0 0 0 0 0 0 0	CR104PTP32F2*92	\$70.20
Depressed	0000	•••X•••		3.120 11 11 3212 32	Ţ. J.EU
Free	0000		0000	CR104PTP33G2*92	\$70.20
Depressed	0000	9-0X-0-0	00000	3.11341 11 33GE JE	Ψ7 0.20

 $<sup>^{1}\</sup>mbox{Replace}$  asterisk (\*) in product number with letter from chart below.

### Cap Colors Available\*

Color	Insert in place of asterisk (*)
Black	В
Red	R
Green	G
Yellow	E

9-11

**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

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Control Catalog

Special Function
Illuminated
600 Volts Maximum AC/DC
10 Amperes Continuous

Suitable for use in NEMA Types 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance. Not available for CR104PBT devices.

### 2-Position Maintained 1 3/8" diameter

Power Supply Type	Supply Voltage	Lamp Type <sup>1</sup>	Contact Configuration	Product Number <sup>2</sup>	List Price GO-10P1
Transformer	120V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*5C2	\$100.20
Transformer	240V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*5C3	\$100.20
Transformer	480V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*5C4	\$100.20
Transformer	600V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBT11*5C5	\$100.20
Full Voltage	6V 50/60 Hz	Incand., 6V, #755	1NO-1NC	CR104PBL11*5C6	\$88.20
Full Voltage	12V 50/60 Hz	Incand., 12V, #756	1NO-1NC	CR104PBL11*5C7	\$88.20
Full Voltage	24V 50/60 Hz	Incand., 24V, #1819	1NO-1NC	CR104PBL11*5C8	\$88.20
Full Voltage	120V 50/60 Hz	Incand., 130V	1NO-1NC	CR104PBL11*5C2	\$88.20
Resistor	120V 50/60 Hz	Incand., 60V	1NO-1NC	CR104PBR11*5C2	\$88.20
Resistor	240V 50/60 Hz	Incand., 130V	1NO-1NC	CR104PBR11*5C3	\$88.20
Full Voltage	6 VAC/DC	LED, 6V	1NO-1NC	CR104PBL11*5P6	\$106.20
Full Voltage	12 VAC/DC	LED, 12V	1NO-1NC	CR104PBL11*5P7	\$106.20
Full Voltage	24 VAC/DC	LED, 24V	1NO-1NC	CR104PBL11*5P8	\$106.20
Full Voltage	120 VAC/DC	LED, 120V	1NO-1NC	CR104PBL11*5P2	\$106.20

### Push-Pull 3-Position Momentary Push-Momentary Pull

Power Supply Type	Supply Voltage	Lamp Type <sup>1</sup>	Contact Configuration <sup>4</sup>	Color	Product Number	List Price GO-10P1
Transformer	120V 50/60 Hz	Incand., 6V, #755	1NO-1NC	Red Lens	CR104PBT0LR5D2	\$100.20
Transformer	240V 50/60 Hz	Incand., 6V, #755	1NO-1NC	Red Lens	CR104PBT0LR5D3	\$100.20
Transformer	480V 50/60 Hz	Incand., 6V, #755	1NO-1NC	Red Lens	CR104PBT0LR5D4	\$100.20
Transformer	600V 50/60 Hz	Incand., 6V, #755	1NO-1NC	Red Lens	CR104PBT0LR5D5	\$100.20
Full Voltage	6V 50/60 Hz	Incand., 6V, #755	1NO-1NC	Red Lens	CR104PBL0LR5D6	\$88.20
Full Voltage	12V 50/60 Hz	Incand., 12V, #756	1NO-1NC	Red Lens	CR104PBL0LR5D7	\$88.20
Full Voltage	24V 50/60 Hz	Incand., 24V, #1819	1NO-1NC	Red Lens	CR104PBL0LR5D8	\$88.20
Full Voltage	120V 50/60 Hz	Incand., 130V	1NO-1NC	Red Lens	CR104PBL0LR5D2	\$88.20
Resistor	120V 50/60 Hz	Incand., 60V	1NO-1NC	Red Lens	CR104PBR0LR5D2	\$88.20
Resistor	240V 50/60 Hz	Incand., 130V	1NO-1NC	Red Lens	CR104PBR0LR5D3	\$88.20
Full Voltage	6 VAC/DC	LED, 6V	1NO-1NC	Red Lens	CR104PBL0LR5K6	\$106.20
Full Voltage	12 VAC/DC	LED, 12V	1NO-1NC	Red Lens	CR104PBL0LR5K7	\$106.20
Full Voltage	24 VAC/DC	LED, 24V	1NO-1NC	Red Lens	CR104PBL0LR5K8	\$106.20
Full Voltage	120 VAC/DC	LED, 120V	1NO-1NC	Red Lens	CR104PBL0LR5K2	\$106.20

### Push-Pull 3-Position Maintained Push-Momentary Pull

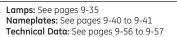
Power Supply Type	Supply Voltage	Lamp Type <sup>1</sup>	Contact Configuration	on <sup>4</sup> Color	Product Number	List Price GO-10P1
Transformer	120V 50/60 Hz	Incand., 6V, #755	1NO-1NC	Red Lens	CR104PBT0LR5E2	\$100.20
Transformer	240V 50/60 Hz	Incand., 6V, #755	1NO-1NC	Red Lens	CR104PBT0LR5E3	\$100.20
Transformer	480V 50/60 Hz	Incand., 6V, #755	1NO-1NC	Red Lens	CR104PBT0LR5E4	\$100.20
Transformer	600V 50/60 Hz	Incand., 6V, #755	1NO-1NC	Red Lens	CR104PBT0LR5E5	\$100.20
Full Voltage	6V 50/60 Hz	Incand., 6V, #755	1N <b>Ø-1</b> NC	Red Lens	CR104PBL0LR5E6	\$88.20
Full Voltage	12V 50/60 Hz	Incand., 12V, #756	1NO-1NC	Red Lens	CR104PBL0LR5E7	\$88.20
Full Voltage	24V 50/60 Hz	Incand., 24V, #1819	1NO-1NC	, Red Lens	CR104PBL0LR5E8	\$88.20
Full Voltage	120V 50/60 Hz	Incand., 130V	1NO-1NC	Red Lens	CR104PBL0LR5E2	\$88.20
Resistor	120V 50/60 Hz	Incand., 60V	1NO-1NC	Red Lens	CR104PBR0LR5E2	\$88.20
Resistor	240V 50/60 Hz	Incand., 130V	1NO-1NC	Red Lens	CR104PBR0LR5E3	\$88.20
Full Voltage	6 VAC/DC	LED, 6V	1NO-1NC	Red Lens	CR104PBL0LR5M6	\$106.20
Full Voltage	12 VAC/DC	LED, 12V	1NO-1NC	Red Lens	CR104PBL0LR5M7	\$106.20
Full Voltage	24 VAC/DC	LED, 24V	1NO-1NC	Red Lens	CR104PBL0LR5M8	\$106.20
Full Voltage	120 VAC/DC	LED, 120V	1NO-1NC	Red Lens	CR104PBL0LR5M2	\$106.20

<sup>&</sup>lt;sup>1</sup>All lamps miniature bayonet bases.

### **Lens Colors Available\***

Color		Insert in pl	ace of ast	erisk (*)
No Lens C	Cap		A <sup>5</sup>	
Clear <sup>6</sup>			С	
Yellow			E	
Green			G	
Blue			L	
Amber			М	
Red			R	
White			W	

<sup>&</sup>lt;sup>5</sup>Subtract **\$4.20**. <sup>6</sup>Not available as LED.

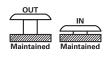


Drilling Plans and Dimensions: See page 9-57
Product Number Selection Instructions: See pages 9-2



Section 9

Push-Pull Illuminated Push Button



2 Position Maintained

NC X O



### Momentary Push - Momentary Pull

NC X X O



Maintained Push - Momentary Pull

NC X X O



<sup>&</sup>lt;sup>2</sup>Replace asterisk (\*) in product number with letter from chart to right.

<sup>&</sup>lt;sup>3</sup>Supplied with one NO (early closing) and one NC single-circuit contact blocks.

<sup>&</sup>lt;sup>4</sup>Normally closed, late-breaking contacts.

Protected Mushroom-Head 600 Volts Max. AC/DC **10 Amperes Continuous** 

CR104PTY protected mushroom-head push buttons are designed specifically for rugged industrial applications and hazardous duty environments, including food and beverage, mining, construction, timber, pulp/paper, and automotive/trucking industries. They also are ideal for such E-stop applications as fuel stations and airport baggage handling equipment.

In addition to providing unsurpassed vibration and impact resistance, CR104PTY protected mushroom-head push buttons allow operation with heavy gloves, provide illuminated lens visibility from all angles, and permit mounting of four double-circuit contact blocks. The bright chrome operator is available in two- or three-position forms. It can be used with other CR104P operators or as a stand-alone unit.

Suitable for use in NEMA Types 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.



### All Forms

Step-by-step selection and pricing of all forms.

										0	L	2	3	4	
Г	Product Number	С	R	1	0	4	Р	Т	Υ						= Complete Product No.
Г								Price		+	Z	+	+		+ \$
										Total List Price, GO-10P1					

### Select Operator

Select the operator. Transfer the product number digit to the box marked 1 in the product number line and the price to the box marked 1 in the price line at the bottom of next page. Note your operator's product number digit for use in later selection steps.

Version	Product No. Digit	Adder, GO-10P1
2-Position Push-Pull Maintained <sup>1</sup>	2	\$43.00
3-Position Momentary Push-Pull <sup>1</sup>	4	\$43.00
3-Position Momentary Pull, Maintained Push <sup>1</sup>	5	\$43.00
<sup>1</sup> See page 9-14 for contact type/position		

### 2 Select Service Voltage

Select service voltage. Transfer the product number digit to the box marked **2** in the product number line and the price to the box marked 2 in the price line at the bottom of next page.

Service Voltage	Product No. Digit	List Price Adder, GO-10P1
Nonilluminated	09	\$0.00 (NC)
No lamp <sup>2</sup>	10	\$18.00
120V	11	\$21.00
6-8V	12	\$21.00
12V	13	\$21.00
18V	14	\$21.00
24V	15	\$21.00

version—no set voltage and no lamp. Use LED listed on page 9-35 when longer bulb life ed. LED must match lens color.

### Select Cap/Lens Color

Select cap/lens color. Transfer the product number digit to the box marked 3 in the product number line and the price to the box marked 3 in the price line at the bottom of next page.

Cap/Lens Color	Product No. Digit	List Price Adder, GO-10P1
No Cap	1	\$0.00 (NC)
Black	2	\$6.00
Red	3	\$6.00
Orange	4	\$6.00
Yellow	5	\$6.00
Green	6	\$6.00
Blue	7	\$6.00
White	8	\$6.00

### 4 Select Contact Block

Select contact block. Transfer the product number digit to the box marked 4 in the product number line and the price to the box marked 4 in the price line at the bottom of this page.

Product No. Digits	Adder, GO-10P1
00	\$0.00 (NC)
01	\$9.00
02	\$18.00
20	\$9.00
11	\$18.00
20	\$18.00
22	\$36.00
	00 01 02 20 11 20



Publications and Reference: See Section 17 for a complete list of additional product-related publications Lamps: See pages 9-35

Nameplates: See pages 9-40 to 9-41 Technical Data: See pages 9-56 to 9-57 Drilling Plans and Dimensions: See page 9-57

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**Protected Mushroom-Head** 600 Volts Max. AC/DC **10 Amperes Continuous** 

### **2-Position**





Contact Block	Maintained Pulled Out	Maintained Push In
NC	Х	0
NO	0	X

### **3-Position**







Section 9

	Contact Block	Contact Position	Momentary Pull Out	Maintained Center	Momentary Push In
	NC	Left	X	0	9
	NO	Left	0	0	X
	NC	Right	X	Х	0
	NOEM	Left	0	X	X
-	NIOSNA NI II O	5   14			

NOEM—Normally Open Early Make
NOTE: All other combinations are invalid.



### Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Pilot Devices CR104P

600 Volts Max. AC/DC 10 Amperes Continuous

Suitable for use in NEMA Types 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rates for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

### **Standard Indicating Lights**

Power Supply Type	Supply Voltage	Lamp Type	Product Number <sup>1</sup>	List Price GO-10P1
Transformer	120V 50/60 Hz	Incand., 6V, #755	CR104PLG32*	\$64.20
Transformer	200-208V 60 Hz	Incand., 6V, #755	CR104PLG3A*	\$64.20
Transformer	240V 50/60 Hz	Incand., 6V, #755	CR104PLG33*	\$64.20
Transformer	277V 60 Hz	Incand., 6V, #755	CR104PLG3B*	\$64.20
Transformer	347V 60 Hz	Incand., 6V, #755	CR104PLG3C*	\$64.20
Transformer	480V 50/60 Hz	Incand., 6V, #755	CR104PLG34*	\$64.20
Transformer	600V 50/60 Hz	Incand., 6V, #755	CR104PLG35*	\$64.20
Full Voltage	6V 50/60 Hz	Incand., 6V, #755	CR104PLG16*	\$52.50
Full Voltage	12V 50/60 Hz	Incand., 12V, #756	CR104PLG17*	\$52.50
Full Voltage	24V 50/60 Hz	Incand., 24V, #1819	CR104PLG18*	\$52.50
Full Voltage	120V 50/60 Hz	Incand., 130V	CR104PLG22*	\$52.50
Resistor	120V 50/60 Hz	Incand., 60V	CR104PLG42*	\$52.50
Resistor	240V 50/60 Hz	Incand., 130V	CR104PLG43*	\$52.50
Transformer	120V 50/60 Hz	LED, 6V	CR104PLG92*	\$82,20
Transformer	200-208V 60 Hz	LED, 6V	CR104PLG9A*	\$82.20
Transformer	240V 50/60 Hz	LED, 6V	CR104PLG93*	\$82.20
Transformer	277V 60 Hz	LED, 6V	CR104PLG9B*	\$82.20
Transformer	347V 60 Hz	LED, 6V	CR104PLG9C*	\$82.20
Transformer	480V 50/60 Hz	LED, 6V	CR104PLG94*	\$82.20
Transformer	600V 50/60 Hz	LED, 6V	CR104PLG95*	\$82.20
Full Voltage	6 VAC/DC	LED, 6V	CR104PLG86*	\$70.20
Full Voltage	12 VAC/DC	LED, 12V	CR104PLG87*	\$70.20
Full Voltage	24 VAC/DC	LED, 24V	CR104PLG88*	\$70.20
Full Voltage	120 VAC/DC	LED, 120V	CR104PLG82*	\$70.20
Transformer, Flashing	120V 50/60 Hz	Incand., 6V, #267 Flasher	CR104PLG62*	\$67.20
Transformer, Flashing	200-208V 60 Hz	Incand., 6V, #267 Flasher	CR104PLG6A*	\$67.20
Transformer, Flashing	240V 50/60 Hz	Incand., 6V, #267 Flasher	CR104PLG63*	\$67.20
Transformer, Flashing	277V 60 Hz	Incand., 6V, #267 Flasher	CR104PLG6B*	\$67.20
Transformer, Flashing	347V 60 Hz	Incand., 6V, #267 Flasher	CR104PLG6C*	\$67.20
Transformer, Flashing	480V 50/60 Hz	Incand., 6V, #267 Flasher	CR104PLG64*	\$67.20
Transformer, Flashing	600V 50/60 Hz	Incand., 6V, #267 Flasher	CR104PLG65*	\$67.20
Full Voltage, Flashing	6V 50/60 Hz	Incand., 6V, #267 Flasher	CR104PLG56*	\$70.20
Full Voltage	120V	Neon, 120V, #NE51H-R	CR104PLG72*	\$55.20



Standard

### **Push to Test Indicating Lights**

Power Supply Type	Supply Voltage	Lamp Type	Product Number <sup>1</sup>	List Price GO-10P1
Transformer	120V 50/60 Hz	Incand., 6V, #755	CR104PLT32*	\$82.20
Transformer	200-208V 60 Hz	Incand., 6V, #755	CR104PLT3A*	\$82.20
Transformer	240V 50/60 Hz	Incand., 6V, #755	CR104PLT33*	\$82.20
Transformer	277V 60 Hz	Incand., 6V, #755	CR104PLT3B*	\$82.20
Transformer	347V 60 Hz	Incand., 6V, #755	CR104PLT3C*	\$82.20
Transformer	480V 50/60 Hz	Incand., 6V, #755	CR104PLT34*	\$82.20
Transformer	600V 50/60 Hz	Incand., 6V, #755	CR104PLT35*	\$82.20
Full Voltage	6V 50/60 Hz	Incand., 6V, #755	CR104PLT16*	\$70.20
Full Voltage	12V 50/60 Hz	Incand., 12V, #756	CR104PLT17*	\$70.20
Full Voltage	24V 50/60 Hz	Incand., 24V, #1819	CR104PLT18*	\$70.20
Full Voltage	120V 50/60 Hz	Incand., 130V	CR104PLT22*	\$70.20
Resistor	120V 50/60 Hz	Incand., 60V	CR104PLT42*	\$70.20
Resistor	240V 50/60 Hz	Incand., 130V	CR104PLT43*	\$70.20
Transformer	120V 50/60 Hz	LED, 6V	CR104PLT92*	\$100.20
Transformer	200-208V 60 Hz	LED, 6V	CR104PLT9A*	\$100.20
Transformer	240V 50/60 Hz	LED, 6V	CR104PLT93*	\$100.20
Transformer	277V 60 Hz	LED, 6V	CR104PLT9B*	\$100.20
Transformer	347V 60 Hz	LED, 6V	CR104PLT9C*	\$100.20
Transformer	480V 50/60 Hz	LED, 6V	CR104PLT94*	\$100.20
Transformer	600V 50/60 Hz	LED, 6V	CR104PLT95*	\$100.20
Full Voltage	6 VAC/DC	LED, 6V	CR104PLT86*	\$88.20
Full Voltage	12 VAC/DC	LED, 12V	CR104PLT87*	\$88.20
Full Voltage	24 VAC/DC	LED, 24V	CR104PLT88*	\$88.20
Full Voltage	120 VAC/DC	LED, 120V	CR104PLT82*	\$88.20
Transformer, Flashing	120V 50/60 Hz	Incand., 6V, #267 Flasher	CR104PLT62*	\$85.20
Transformer, Flashing	200-208V 60 Hz	Incand., 6V, #267 Flasher	CR104PLT6A*	\$85.20
Transformer, Flashing	240V 50/60 Hz	Incand., 6V, #267 Flasher	CR104PLT63*	\$85.20
Transformer, Flashing	277V 60 Hz	Incand., 6V, #267 Flasher	CR104PLT6B*	\$85.20
Transformer, Flashing	347V 60 Hz	Incand., 6V, #267 Flasher	CR104PLT6C*	\$85.20
Transformer, Flashing	480V 50/60 Hz	Incand., 6V, #267 Flasher	CR104PLT64*	\$85.20
Transformer, Flashing	600V 50/60 Hz	Incand., 6V, #267 Flasher	CR104PLT65*	\$85.20
Full Voltage, Flashing	6V 50/60 Hz	Incand., 6V, #267 Flasher	CR104PLT56*	\$88.20
Full Voltage	120V	Neon, 120V, #NE51H-R	CR104PLT72*	\$73.20
4				

 $<sup>^{1}</sup>$ Replace asterisk (\*) in product number with letter from table on right.



Push-to-Test

### **Lens Colors Available\***

Color	Insert in place of asterisk (*)
No Lens	A2,3,4
Clear <sup>4</sup>	C <sup>3</sup>
Yellow	E <sup>4</sup>
Green	G <sup>4</sup>
Blue	L <sup>4</sup>
Amber	M
Red	R
White	W

 $<sup>^2\</sup>mbox{Subtract}$  \$4.20 from list price with no lens.



**Publications and Reference:** See Section 17 for a complete list of additional product-related publications **Lamps:** See page 9-35

Nameplates: See pages 9-40 to 9-41 Technical Data: See pages 9-56 to 9-57 Drilling Plans and Dimensions: See page 9-57

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 $<sup>^3\</sup>mathrm{Not}$  suitable for use with LED.

 $<sup>^4\</sup>mbox{Not}$  suitable for use with NEON light.

600 Volts Max. AC/DC 10 Amperes Continuous

Suitable for use in NEMA Types 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

### Cluster-Type (Steady Light, Miniature Bayonet Lamp Socket)

Power Supply Type	Supply Voltage	Lamp Type	Cluster Type	Product Number	List Price GO-10P1
Full Voltage	6V 50/60 Hz	Incand., 6V, #176B	2-Lamp	CR104PLB16W	\$112.20
Full Voltage	12V 50/60Hz	Incand., 12V, #373	2-Lamp	CR104PLB17W	\$112.20
Full Voltage	24V 50/60 Hz	Incand., 24V, #399	2-Lamp	CR104PLB18W	\$112.20
Full Voltage	6V 50/60 Hz	Incand., 6V, #176B	4-Lamp	CR104PLQ16W	\$238.20
Full Voltage	12V 50/60Hz	Incand., 12V, #373	4-Lamp	CR104PLQ17W	\$238.20
Full Voltage	24V 50/60 Hz	Incand., 24V, #399	4-Lamp	CR104PLQ18W	\$238.20

All cluster lights shipped with one boot of each of the following colors—yellow, green, blue, and red. Bulb extractor available, CR104MG128 at List Price, GO-10P1, **\$6.00**.

### **Accessories**

Cluster lights provide either two or four separate light signals in the same space as one full-size indicating light. Colored boots can provide color distinction to each lamp. Applications should not energize more than two lamps continuously.

				List Price
Accessory Type	Color	Package Quantity	Product Number	GO-10P1
Lens and Divider (2 Lamp Cluster)	White		CR104PXL02W	\$5.70
Lens and Divider (4 Lamp Cluster)	White		CR104PXL04W	\$5.70
Cluster-Type Pilot Light Boots	Yellow	4	CR104PXL08E	\$0.37
Cluster-Type Pilot Light Boots	Green	4	CR104PXL08G	\$0.37
Cluster-Type Pilot Light Boots	Blue	4	CR104PXL08L	\$0.37
Cluster-Type Pilot Light Boots	Red	4	CR104PXL08R	\$0.37
Cluster-Type Pilot Light Boots	1 Each: Yellow,	Four, 1 each color	CR104PXL08T	\$1.50 per package
	Groop Pluo Pod			

Section 9

**Cluster Lights** 

### Remote Test Lights (Dual Input Illuminated Push Buttons)

Dual input illuminated push buttons and indicating lights allow a number of lights to be tested from a single test button without operating the control circuit. A dual input illuminated push button without contacts is a remote test indicating light.

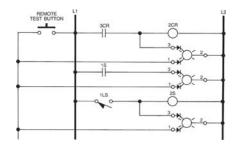
					List Price
Power Supply Type	Supply Voltage	Lamp Type	Contacts	Product Number <sup>1</sup>	GO-10P1
Full Voltage	120V 50/60 Hz	Incand., 120V, #90MB	with	CR104PBL91*1H2	\$100.20
Full Voltage	120V 50/60 Hz	Incand., 120V, #90MB	without	CR104PBL00*1H2	\$82.20

 $<sup>^{1}</sup>$ Replace asterisk (\*) in product number with letter from table below

### Lens Colors Available\*

Color	Insert in place of asterisk (*)
No Lens	A <sup>2,3,4</sup>
Clear <sup>4</sup>	C <sup>3</sup>
Yellow	E <sup>4</sup>
Green	G <sup>4</sup>
Blue	L <sup>4</sup>
Amber	M
Red	R
White	W

<sup>&</sup>lt;sup>2</sup>Subtract **\$4.20** from list price with no lens.



Typical wiring diagram for remote test of lights using dual input "remote test" lights.

Lamps: See pages 9-35 Nameplates: See pages 9-40 to 9-41 Technical Data: See pages 9-56 to 9-57 **Drilling Plans and Dimensions:** See page 9-57 **Product Number Selection Instructions:** See pages 9-2

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 $<sup>^3\</sup>mathrm{Not}$  suitable for use with LED.

<sup>&</sup>lt;sup>4</sup>Not suitable for use with NEON light.

# **Pilot and Signaling Devices**

Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

### **CR104P**

**Knob Operated** Non-Illuminated 600 Volts Max. AC/DC **10 Amperes Continuous** 

### Units are supplied factory-assembled when ordered with contact block.

Product Number and price do not include nameplate. All nameplates must be ordered as a separate item.

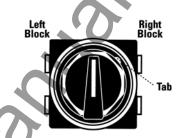
Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

### 2-Position - Black Knob<sup>1</sup>

Release Type	2 Position Cam Code	Contact Configuration	Product Number <sup>1</sup>	List Price GO-10P1
Maintained	1	None	CR104PSG21B	\$22.20
Maintained	1	1NO-1NC	CR104PSG21B91	\$40.20
Maintained	1	2NO-2NC	CR104PSG21B92	\$58.20
Spring Return L → C	2	None	CR104PSG12B	\$34.20
Spring Return L → C	2	1NO-1NC	CR104PSG12B91	\$52.20
Spring Return L → C	2	2NO-2NC	CR104PSG12B92	\$70.20
Spring Return R → C	3	None	CR104PSG63B	\$34.20
Spring Return R → C	3	1NO-1NC	CR104PSG63B91	\$52.20
Spring Return R → C	3	2NO-2NC	CR104PSG63B92	\$70.20

<sup>&</sup>lt;sup>1</sup>To order knob in a color other than black, replace the "B" in listed Product Numbers with E (Yellow), G (Green), L (Blue), or R (Red).

**Knob-Operated Selector** 



cts viewed from front of panel.

### 2-Position Selector Switches - Non-Illuminated

				Can	n #1	Can	n #2	Cam #3		
Operator Position	$oldsymbol{\circ}$	•	•	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	
	0	_	Х	NO	L or R	_				
	X	-	0	NC	L or R	-		<i>U</i> -		
Contact	X	0	-	-		NO	L or R			
State	0	Χ	-	-		NC 4	L or R	-		
	_	0	Χ	-		-		NO	L or R	
	-	Χ	0	-		-		NC	L or R	

<sup>- :</sup> This position is nonexistent or is a "pass through".

### **Schematic Diagrams - Factory Forms**

(	Contacts viewed from front of panel										
	Le	eft			Right						
1 NO-1 NC Suffix (B91)											
	O 3	O 4	NC NO								
2 NO-2 NC Suffix (B92)	0	ۇ م			1 2						
	O 3	O 4		NC NO	O O 3 4						

Numbers and letters are molded into blocks at terminals.

### 3-Position - Black Knob1 - Maintained

	3 Position	Contact		List Price
Release Type	Cam Code	Configuration	Product Number <sup>1</sup>	GO-10P1
Maintained	4	None	CR104PSG34B	\$22.20
Maintained	4	1NO-1NC	CR104PSG34B91	\$40.20
Maintained	4	2NO-2NC	CR104PSG34B92	\$58.20
Maintained	2	None	CR104PSG32B	\$22.20
Maintained	2	1NO-1NC	CR104PSG32B91	\$40.20
Maintained	2	2NO-2NC	CR104PSG32B92	\$58.20
Maintained	3	None	CR104PSG33B	\$22.20
Maintained	3	1NO-1NC	CR104PSG33B91	\$40.20
Maintained	3	2NO-2NC	CR104PSG33B92	\$58.20
Maintained	5	None	CR104PSG35B	\$22.20
Maintained	5	2NO-2NC	CR104PSG35B92	\$58.20
Maintained	6	None	CR104PSG36B	\$22.20
Maintained	6	2NO-2NC	CR104PSG36B92	\$58.20

### 3-Position - Black Knob<sup>1</sup> - Spring Return L $\rightarrow$ C

	3 Position	Contact		List Price
Release Type	Cam Code	Configuration	Product Number <sup>1</sup>	GO-10P1
Spring Return L → C	4	None	CR104PSG74B	\$34.20
Spring Return L → C	4	1NO-1NC	CR104PSG74B91	\$52.20
Spring Return L → C	4	2NO-2NC	CR104PSG74B92	\$70.20
Spring Return L → C	2	None	CR104PSG72B	\$34.20
Spring Return L → C	2	1NO-1NC	CR104PSG72B91	\$52.20
Spring Return L → C	2	2NO-2NC	CR104PSG72B92	\$70.20
Spring Return L → C	3	None	CR104PSG73B	\$34.20
Spring Return L → C	3	1NO-1NC	CR104PSG73B91	\$52.20
Spring Return L → C	3	2NO-2NC	CR104PSG73B92	\$70.20
Spring Return L → C	5	None	CR104PSG75B	\$34.20
Spring Return L → C	5	2NO-2NC	CR104PSG75B92	\$70.20
Spring Return L → C	6	None	CR104PSG76B	\$34.20
Spring Return L → C	6	2NO-2NC	CR104PSG76B92	\$70.20

<sup>&</sup>lt;sup>1</sup>To order knob in a color other than black, replace the "B" in listed Product Numbers with E (Yellow), G (Green), L (Blue), or R (Red).

### 3-Position Selector Switches - Non-Illuminated

			Çar	n #4	Car	Cam #2		Cam #3		Cam #5		Cam #6	
	_	$\sim$		Mounting									
Operator Position	(1)	(2	Block	Location Left/Right		Location Left/Right		Location Left/Right		Location Left/Right		Location Left/Right	
rosition —	$\sim$	~	BIOCK	Leit/Rigit	DIOCK	Leit/Rigit	BIOCK	Leit/Rigit	DIOCK	Leit/Rigit	DIOCK	Leit/Rigit	
0	0	Χ	NO	L or R	-	-	NO	L or R	NO	L or R	NO	Left	
0	X	0	-	-	NC	L or R	NC	L or R	NC	Right	-	-	
Contact X	0	0	NC	L or R	NO	L or R	-	-	NC	Left	NO	Right	
State X	X	0	-	-	-	-	-	-	-	-	NC	Left	
0	Χ	Χ	-	_	-	-	-	-	-	-	NC	Right	

In the product number of a selector switch, the cam is identified by the fifth figure after the "104". Example: CR104PSG2 1 B, the cam number is 1.



Publications and Reference: See Section 17 for a complete list of additional product-related publications

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In the product number of a selector switch, the cam is identified by the fifth figure after the "104". **Example:** CR104PSG2 **1** B, the cam number is 1.

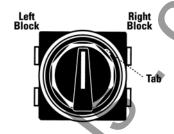
### Units are supplied factory-assembled when ordered with contact block.

Product Number and price do not include nameplate. All nameplates must be ordered as a separate item.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications., when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.



**Knob-Operated Selector Switch** 



Section 9

Contacts viewed from front of panel.

### 3-Position - Black Knob¹ - Spring Return C←R

Release Type	3 Position Cam Code	Contact Configuration	Product Number <sup>1</sup>	List Price GO-10P1
Spring Return C ← R	4	None	CR104PSG84B	\$34.20
Spring Return C ← R	4	1NO-1NC	CR104PSG84B91	\$52.20
Spring Return C ← R	4	2NO-2NC	CR104PSG84B92	\$70.20
Spring Return C ← R	2	None	CR104PSG82B	\$34.20
Spring Return C ← R	2	1NO-1NC	CR104PSG82B91	\$52.20
Spring Return C ← R	2	2NO-2NC	CR104PSG82B92	\$70.20
Spring Return C ← R	3	None	CR104PSG83B	\$34.20
Spring Return C ← R	3	1NO-1NC	CR104PSG83B91	\$52.20
Spring Return C ← R	3	2NO-2NC	CR104PSG83B92	\$70.20
Spring Return C ← R	5	None	CR104PSG85B	\$34.20
Spring Return C ← R	5	2NO-2NC	CR104PSG85B92	\$70.20
Spring Return C ← R	6	None	CR104PSG86B	\$34.20
Spring Return C ← R	6	2NO-2NC	CR104PSG86B92	\$70.20

### 3-Position - Black Knob<sup>1</sup> - Spring Return L→C←R

	3 Position	Contact		List Price
Release Type	Cam Code	Configuration	Product Number <sup>1</sup>	GO-10P1
Spring Return L → C ← R	4	None	CR104PSG94B	\$34.20
Spring Return L → C ← R	4	1NO-1NC	CR104PSG94B91	\$52.20
Spring Return L → C ← R	4	2NO-2NC	CR104PSG94B92	\$70.20
Spring Return L → C ← R	2	None	CR104PSG92B	\$34.20
Spring Return $L \rightarrow C \leftarrow R$	2	1NO-1NC	CR104PSG92B91	\$52.20
Spring Return L → C ← R	2	2NO-2NC	CR104PSG92B92	\$70.20
Spring Return $L \rightarrow C \leftarrow R$	3	None	CR104PSG93B	\$34.20
Spring Return L → C ← R	3	1NO-1NC	CR104PSG93B91	\$52.20
Spring Return L → C ← R	3	2NO-2NC	CR104PSG93B92	\$70.20
Spring Return L → C ← R	5	None	CR104PSG95B	\$34.20
Spring Return L → C ← R	5	2NO-2NC	CR104PSG95B92	\$70.20
Spring Return L → C ← R	6	None	CR104PSG96B	\$34.20
Spring Return L → C ← R	6	2NO-2NC	CR104PSG96B92	\$70.20

To order knob in a color other than black, replace the "B" in listed Product Numbers with E (Yellow), G (Green), L (Blue), or R (Red).

### 3-Position Selector Switches - Non-Illuminated

		Cam #4		Car	Cam #2		Cam #3		Cam #5		n #6		
Operator Position	$oldsymbol{\circ}$	•	<b>⊘</b>		Mounting Location Left/Right	Contact		Contact		Contact		Contact	
	0	0	Χ	NO	L or R	-	-	NO	L or R	NO	L or R	NO	Left
	0	Χ	0	-	-	NC	L or R	NC	L or R	NC	Right	-	-
Contact	Χ	0	0	NC	L or R	NO	L or R	-		NC	Left	NO	Right
State	Χ	Χ	0	-	-	-	-	. <i>-</i>	-	-	-	NC	Left
	0	Χ	Χ	-	-	-	-	1	_	-	_	NC	Right

In the product number of a selector switch, the cam is identified by the fifth figure after the "104". **Example:** CR104PSG2 **1** B, the cam number is 1.

### **Schematic Diagrams - Factory Forms**

Contacts viewed from front of panel									
	Left	:			Right				
1 NO-1 NC Suffix (B91)	4	2 Q							
		O 4	NC NO						
2 NO-2 NC Suffix (B92)	4	2 <b>Q</b>		NG	012				
	O 3	O 4		NC NO	O O 3 4				

Numbers and letters are molded into blocks at terminals.

### 4-Position - Black Knob1

Release Type	4 Position Cam Code	Contact Configuration	Product Number <sup>1</sup>	List Price GO-10P1
Maintained	7	None	CR104PSG47B <sup>2</sup>	\$22.20
Maintained	7	2NO-2NC	CR104PSG47B92 <sup>2</sup>	\$58.20

 $<sup>^{1}</sup>$ To order knob in a color other than black, replace the "B" in listed Product Numbers with E (Yellow), G (Green), L (Blue), or R (Red).

### 4-Position Selector Switch - Non-Illuminated

		_	_	_	_		Cam #7			
Operator Position		Ð	$oldsymbol{\bullet}$	$\odot$	$\odot$	Type of Contact Block	Mounting Location Left-Right			
	1	X	0	0	0	NC	Left			
Contact		0	0	Χ	0	NO	Left			
Contact State		О	0	0	Х	NC	Right			
	_	0	X	0	0	NO	Right			

Technical Data: See pages 9-56 to 9-57 **Drilling Plans and Dimensions:** See page 9-57

Nameplates: See pages 9-40 to 9-41 Product Number Selection Instructions: See pages 9-2

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<sup>&</sup>lt;sup>2</sup>Two double-circuit contact blocks, mounted side-by-side, is standard arrangement.

No more than two contact blocks, single and/or double, may be used with this operator.

## **Pilot and Signaling Devices** Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

**CR104P** 

**Lever Operated** Non-Illuminated 600 Volts Max. AC/DC **10 Amperes Continuous** 

### Units are supplied factory-assembled when ordered with contact block.

Product Number and price do not include nameplate. All nameplates must be ordered as a separate item.

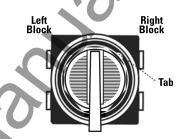
Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

### 2-Position Chrome<sup>1</sup>

	2 Position	Contact		List Price
Release Type	Cam Code	Configuration	Product Number <sup>1</sup>	GO-10P1
Maintained	1	None	CR104PSM21	\$22.20
Maintained	1	1NO-1NC	CR104PSM21A91	\$40.20
Maintained	1	2NO-2NC	CR104PSM21A92	\$58.20
Spring Return L → C	2	None	CR104PSM12	\$34.20
Spring Return L → C	2	1NO-1NC	CR104PSM12A91	\$52.20
Spring Return L → C	2	2NO-2NC	CR104PSM12A92	\$70.20
Spring Return R → C	3	None	CR104PSM63	\$34.20
Spring Return R → C	3	1NO-1NC	CR104PSM63A91	\$52.20
Spring Return R → C	3	2NO-2NC	CR104PSM63A92	\$70.20

 $<sup>^{1}</sup>$ To order black wing lever, replace "A" in Product Number with "B" before 91 or 92 contact digits. Example: the Product Number for a maintained, 1NO-1NC operator with black wing lever is CR104PSM21**B**91.

elector Switch Lever-Oper



Contacts viewed from front of panel.

### 2-Position Selector Switches - Non-Illuminated

				Can	n #1	Can	n #2	Cam #3	
Operator Position	$\odot$	•	•	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right
	0	_	Х	NO	L or R	-		_	
	X	-	0	NC	L or R	- ,		-	
Contact	X	0	-	-		NO	L or R	-	
State	0	Χ	-	-		NC 📥	L or R	-	
	-	0	X	-		-		NO	L or R
	_	Χ	0	-		_		NC	L or R

<sup>- :</sup> This position is nonexistent or is a "pass through".

### Schematic Diagrams - Factory Forms

(	Contac	ts viev	ved fror	n front of	panel
	Le	eft		Right	
1 NO-1 NC Suffix (B91)	0	2			
	O 3	O 4	NC NO		
2 NO-2 NC Suffix (B92)	ď	2			012
	O 3	O 4		NC NO	O O

Numbers and letters are molded into blocks at terminals

### 3-Position Chrome<sup>1</sup> - Maintained

	3 Position	Contact		List Price
Release Type	Cam Code	Configuration	Product Number <sup>1</sup>	GO-10P1
Maintained	4	None	CR104PSM34	\$22.20
Maintained	4	1NO-1NC	CR104PSM34A91	\$40.20
Maintained	4	2NO-2NC	CR104PSM34A92	\$58.20
Maintained	2	None	CR104PSM32	\$22.20
Maintained	2	1NO-1NC	CR104PSM32A91	\$40.20
Maintained	2	2NO-2NC	CR104PSM32A92	\$58.20
Maintained	3	None	CR104PSM33	\$22.20
Maintained	3	1NO-1NC	CR104PSM33A91	\$40.20
Maintained	3	2NO-2NC	CR104PSM33A92	\$58.20
Maintained	5	None	CR104PSM35	\$22.20
Maintained	5	2NO-2NC	CR104PSM35A92	\$58.20
Maintained	6	None	CR104PSM36	\$22.20
Maintained	6	2NO-2NC	CR104PSM36A92	\$58.20

### 3-Position Chrome¹ - Spring Return L→C

	3 Position	Contact	_	List Price
Release Type	Cam Code	Configuration	Product Number <sup>1</sup>	GO-10P1
Spring Return L → C	4	None	CR104PSM74	\$34.20
Spring Return L → C	4	1NO-1NC	CR104PSM74A91	\$52.20
Spring Return L → C	4	2NO-2NC	CR104PSM74A92	\$70.20
Spring Return L → C	2	None	CR104PSM72	\$34.20
Spring Return L → C	2	1NO-1NC	CR104PSM72A91	\$52.20
Spring Return L → C	2	2NO-2NC	CR104PSM72A92	\$70.20
Spring Return L → C	3	None	CR104PSM73	\$34.20
Spring Return L → C	3	1NO-1NC	CR104PSM73A91	\$52.20
Spring Return L → C	3	2NO-2NC	CR104PSM73A92	\$70.20
Spring Return L → C	5	None	CR104PSM75	\$34.20
Spring Return L → C	5	2NO-2NC	CR104PSM75A92	\$70.20
Spring Return L → C	6	None	CR104PSM76	\$34.20
Spring Return L → C	6	2NO-2NC	CR104PSM76A92	\$70.20

 $<sup>^{1}</sup>$ To order black wing lever, replace "A" in Product Number with "B" before 91 or 92 contact digits. Example: the Product Number for a maintained, 1NO-1NC operator with black wing lever is CR104PSM32**B**91.

### 3-Position Selector Switches - Non-Illuminated

	Cam #4			n #4	Cam #2		Cam #3		Cam #5		Cam #6		
Operator	<b>(</b>			Contact	Mounting Location	Contact	Location	Contact	Location	Contact	Location	Contact	Location
Position	$\leq$	$\overline{}$	$\overline{}$	Block	Left/Right	Block	Left/Right	Block	Left/Right	Block	Left/Right	Block	Left/Right
	0	0	X	NO	L or R	-	-	NO	L or R	NO	L or R	NO	Left
	0	×	0	-	_	NC	L or R	NC	L or R	NC	Right	-	-
Contact	X	0	0	NC	L or R	NO	L or R	-	-	NC	Left	NO	Right
State	X	X	0	-	-	-	-	-	-	-	-	NC	Left
	Õ	Χ	Χ	-	-	-	-	-	-	-	-	NC	Right

In the product number of a selector switch, the cam is identified by the fifth figure after the "104". Example: CR104PSG2 1 B, the cam number is 1.



Publications and Reference: See Section 17 for a complete list of additional product-related publications

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In the product number of a selector switch, the cam is identified by the fifth figure after the "104". **Example:** CR104PSG2 **1** B, the cam number is 1.

### **CR104P**

**Lever Operated** Non-Illuminated 600 Volts Max. AC/DC **10 Amperes Continuous** 

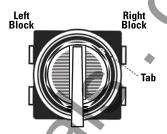
### Units are supplied factory-assembled when ordered with contact block.

Product Number and price do not include nameplate. All nameplates must be ordered as a separate item.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.



**Lever-Operated Selector Switch** 



Contacts yiewed from front of panel.

### 3-Position Chrome¹ - Spring Return C←R

Release Type	3 Position Cam Code	Contact Configuration	Product Number <sup>1</sup>	List Price GO-10P1
Spring Return C ← R	4	None	CR104PSM84	\$34.20
Spring Return C ← R	4	1NO-1NC	CR104PSM84A91	\$52.20
Spring Return C ← R	4	2NO-2NC	CR104PSM84A92	\$70.20
Spring Return C ← R	2	None	CR104PSM82	\$34.20
Spring Return C ← R	2	1NO-1NC	CR104PSM82A91	\$52.20
Spring Return C ← R	2	2NO-2NC	CR104PSM82A92	\$70.20
Spring Return C ← R	3	None	CR104PSM83	\$34.20
Spring Return C ← R	3	1NO-1NC	CR104PSM83A91	\$52.20
Spring Return C ← R	3	2NO-2NC	CR104PSM83A92	\$70.20
Spring Return C ← R	5	None	CR104PSM85	\$34.20
Spring Return C ← R	5	2NO-2NC	CR104PSM85A92	\$70.20
Spring Return C ← R	6	None	CR104PSM86	\$34.20

### 3-Position Chrome 1 - Spring

	3 Position	Contact		List Price
Release Type	Cam Code	Configuration	Product Number <sup>1</sup>	GO-10P1
Spring Return C ← R	6	2NO-2NC	CR104PSM86A92	\$70.20
Spring Return L → C ← R	4	None	CR104PSM94	\$34.20
Spring Return L → C ← R	4	1NO-1NC	CR104PSM94A91	\$52.20
Spring Return L → C ← R	4	2NO-2NC	CR104PSM94A92	\$70.20
Spring Return L → C ← R	2	None	CR104PSM92	\$34.20
Spring Return $L \rightarrow C \leftarrow R$	2	1NO-1NC	CR104PSM92A91	\$52.20
Spring Return L → C ← R	2	2NO-2NC	CR104PSM92A92	\$70.20
Spring Return $L \rightarrow C \leftarrow R$	3	None	CR104PSM93	\$34.20
Spring Return L → C ← R	3	1NO-1NC	CR104PSM93A91	\$52.20
Spring Return L → C ← R	3	2NO-2NC	CR104PSM93A92	\$70.20
Spring Return L → C ← R	5	None	CR104PSM95	\$34.20
Spring Return L $\rightarrow$ C $\leftarrow$ R	5	2NO-2NC	CR104PSM95A92	\$70.20
Spring Return L → C ← R	6	None	CR104PSM96	\$34.20
Spring Return L → C ← R	6	2NO-2NC	CR104PSM96A92	\$70.20

o order black wing lever, replace "A" in Product Number with "B" before 91 or 92 contact digits. **Example**: the Product Number for a maintained, 1NO-1NC operator with black wing lever is CR104PSM32**B**91.

### 3-Position Selector Switches - Non-Illuminated

				Cam #4			Cam #2 Can		n #3 Cam #5		Cam #6		
Operator			<u> </u>	Type of Contact	Mounting Location				Mounting Location				Mounting Location
Position	$\odot$	$\odot$	$\odot$	Block	Left/Right	Block	Left/Right	Block	Left/Right	Block	Left/Right	Block	Left/Right
	0	0	X	NO	L or R	-	_	ON	L or R	NO	L or R	NO	Left
	0	Χ	0	-	-	NC	L or R	NC	L or R	NC	Right	-	-
Contact	X	0	0	NC	L or R	NO	L or R		)-	NC	Left	NO	Right
State	X	Χ	0	-	-	-	-	<b>X</b> (=	-	-	-	NC	Left
	0	Χ	Χ	-	-	-	<b>—</b>	1		-	-	NC	Right

In the product number of a selector switch, the cam is identified by the fifth figure after the "104". Example: CR104PSG2 1 B, the cam number is 1.

### Schematic Diggrams - Factory Forms

(	Contac	cts viev	ved fron	n front of	panel
	Le	eft			Right
1 NO-1 NC Suffix (B91)	<u>-</u>	صُ			
	O 3	O 4	NC NO		
2 NO-2 NC Suffix (B92)	<u>d</u>	2		NC	012
	O 3	O 4		NC NO	O O

Numbers and letters are molded into blocks at terminals.

### 4-Position Chrome<sup>1</sup>

	4 Position	Contact		List Price
Release Type	Cam Code	Configuration	Product Number <sup>1</sup>	GO-10P1
Maintained	7	None	CR104PSM47	\$22.20
Maintained	9	2NO-2NC	CR104PSM47A92	\$58.20

### 4-Position Selector Switch - Non-Illuminated

						Cam #7					
Operator Position	$\bigcirc$	$\odot$		$\Theta$	Type of Contact Block	Mounting Location Left-Right					
	×	0	0	0	NC	Left					
Contact	0	0	Χ	0	NO	Left					
State	0	0	0	Χ	NC	Right					
	0	Χ	0	0	NO	Right					

Nameplates: See pages 9-40 to 9-41 **Technical Data:** See pages 9-56 to 9-57 **Drilling Plans and Dimensions:** See page 9-57

Product Number Selection Instructions: See pages 9-2

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# **Pilot and Signaling Devices**

Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

### **CR104P**

Key Operated Non-Illuminated 600 Volts Max. AC/DC 10 Amperes Continuous

### Units are supplied factory-assembled when ordered with contact blocks.

Product Number and price do not include nameplate. All nameplates must be ordered as a separate item. Two keys included with each cylinder lock.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

### 2-Position - Key Operated

Release Type	2 Position Cam Code	Contact Configuration	Key Removal	Product Number	List Price GO-10P1	
Maintained	1	None	Left	CR104PSK21A00L	\$58.20	
Maintained	1	None	Right	CR104PSK21A00R	\$58.20	
Maintained	1	None	Left and Right	CR104PSK21A00M	\$58.20	
Maintained	1	1NO-1NC	Left	CR104PSK21A91L	\$76.20	
Maintained	1	1NO-1NC	Right	CR104PSK21A91R	\$76.20	
Maintained	1	1NO-1NC	Left and Right	CR104PSK21A91M	\$76.20	
Maintained	1	1NO-1NC	Left	CR104PSK21A91L51 <sup>1</sup>	\$88.20	
Maintained	1	1NO-1NC	Right	CR104PSK21A91R51 <sup>1</sup>	\$88.20	
Maintained	1	1NO-1NC	Left and Right	CR104PSK21A91M51 <sup>1</sup>	\$88.20	
Maintained	1	2NO-2NC	Left	CR104PSK21A92L	\$94.20	
Maintained	1	2NO-2NC	Right	CR104PSK21A92R	\$94,20	
Maintained	1	2NO-2NC	Left and Right	CR104PSK21A92M	\$94.20	
Spring Return L → C	2	None	Center	CR104PSK12A06C	\$70.20	
Spring Return L → C	2	1NO-1NC	Center	CR104PSK12A91C	\$88.20	
Spring Return L → C	2	1NO-1NC	Center	CR104PSK12A91C51 <sup>1</sup>	\$100.20	
Spring Return L → C	2	2NO-2NC	Center	CR104PSK12A92C	\$106.20	
Spring Return R → C	3	None	Center	CR104PSK63A00C	\$70.20	
Spring Return R → C	3	1NO-1NC	Center	CR104PSK63A91C	\$88.20	
Spring Return R → C	3	1NO-1NC	Center	CR104PSK63A91C51 <sup>1</sup>	\$100.20	
Spring Return R → C	3	2NO-2NC	Center	CR104PSK63A92C	\$106.20	

 $<sup>^1</sup>$ CH501 keyed cylinder lock. Other listed cylinder locks are alike and use identical keys. Dissimilar locks are also available; contact nearest GE Consumer & Industrial Representative.

### 2-Position Selector Switches - Key Operated

				Can	n #1	Car	n #2	Cam #3	
Operator Position	$oldsymbol{\circ}$	•	<b>②</b>	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right
	0	_	Х	NO	L or R			-	
	X	-	0	NC	L or R	-		-	
Contact	Χ	0	-	-		NO	L or R	-	
State	0	Χ	-	-		NC	L or R	-	
	_	0	Χ	-		-		NO	L or R
	-	Χ	0	-		-		NC	L or R

<sup>-:</sup> This position is nonexistent or is a "pass through"

# elector Switch

### Schematic Diggrams - Factory Forms

ochemat	0	ugic	11113	Tuctor	y i oi iiis
(	Contac	ts viev	ved fro	m front of	panel
	Le	eft			Right
1 NO-1 NC Suffix (A91*)	d	2			
	O 3	O 4	NC NO		
2 NO-2 NC Suffix (A92*)	d	2			1 2
	O 3	0		NC NO	O O 3 4

Numbers and letters are molded into blocks at terminals. \*Key removal code.

Publications and Reference: See Section 17 for a complete list of additional product-related publications

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In the product number of a selector switch, the carn is identified by the fifth figure after the "104". Example: CR104PSG2 1 B, the cam number is 1

### Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

**CR104P** 

Key Operated Non-Illuminated 600 Volts Max. AC/DC 10 Amperes Continuous

### Units are supplied factory-assembled when ordered with contact blocks.

Product Number and price do not include nameplate. All nameplates must be ordered as a separate item. Two keys included with each cylinder lock.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.



**Key Selector Switch** 

### 3-Position Maintained - Key Operated

Release Type	3 Position Cam Code	Contact Configuration	Key Removal	Product Number	List Price GO-10P1
Maintained	4	None	Left	CR104PSK34A00L	\$58.20
Maintained	4	None	Center	CR104PSK34A00C	\$58.20
Maintained	4	None	Right	CR104PSK34A00R	\$58.20
Maintained	4	None	Left, Right, and Center	CR104PSK34A00W	\$58.20
Maintained	4	1NO-1NC	Left	CR104PSK34A91L	\$76.20
Maintained	4	1NO-1NC	Center	CR104PSK34A91C	\$76.20
Maintained	4	1NO-1NC	Right	CR104PSK34A91R	\$76.20
Maintained	4	1NO-1NC	Left, Right, and Center	CR104PSK34A91W	\$76.20
Maintained	4	1NO-1NC	Left	CR104PSK34A91L51 <sup>1</sup>	\$88.20
Maintained	4	1NO-1NC	Center	CR104PSK34A91C51 <sup>1</sup>	\$88.20
Maintained	4	1NO-1NC	Right	CR104PSK34A91R51 <sup>1</sup>	\$88.20
Maintained	4	1NO-1NC	Left, Right, and Center	CR104PSK34A91W51 <sup>1</sup>	\$88.20
Maintained	4	2NO-2NC	Left	CR104PSK34A92L	\$94.20
Maintained	4	2NO-2NC	Center	CR104PSK34A92C	\$94.20
Maintained	4	2NO-2NC	Right	CR104PSK34A92R	\$94.20
Maintained	4	2NO-2NC	Left, Right, and Center	CR104PSK34A92W	\$94.20
Maintained	2	None	Left	CR104PSK32A00L	\$58.20
Maintained	2	None	Center	CR104PSK32A00C	\$58.20
Maintained	2	None	Right	CR104PSK32A00R	\$58.20
Maintained	2	None	Left, Right, and Center	CR104PSK32A00W	\$58.20
Maintained	2	1NO-1NC	Left	CR104PSK32A91L	\$76.20
Maintained	2	1NO-1NC	Center	CR104PSK32A91C	\$76.20
Maintained	2	1NO-1NC	Right	CR104PSK32A91R	\$76.20
Maintained	2	1NO-1NC	Left, Right, and Center	CR104PSK32A91W	\$76.20
Maintained	2	2NO-2NC	Left	CR104PSK32A92L	\$94.20
Maintained	2	2NO-2NC	Center	CR104PSK32A92C	\$94.20
Maintained	2	2NO-2NC	Right	CR104PSK32A92R	\$94.20
Maintained	2	2NO-2NC	Left, Right, and Center	CR104PSK32A92W	\$94.20

# <sup>1</sup>CH501 keyed cylinder lock. Other listed cylinder locks are alike and use identical keys. Dissimilar locks are also available; contact nearest GE Consumer & Industrial Representative.

### 3-Position Maintained - Key Operated (continued)

	3 Position	Contact	Key		List Price
Release Type	Cam Code	Configuration	Removal	Product Number <sup>1</sup>	GO-10P1
Maintained	3	None	Left	CR104PSK33A00L	\$58.20
Maintained	3	None	Center	CR104PSK33A00C	\$58.20
Maintained	3	None	Right	CR104PSK33A00R	\$58.20
Maintained	3	None	Left, Right,	CR104PSK33A00W	\$58.20
			and Center		
Maintained	3	1NO-1NC	Left	CR104PSK33A91L	\$76.20
Maintained	3	1NO-1NC	Center	CR104PSK33A91C	\$76.20
Maintained	3	1NO-1NC	Right	CR104PSK33A91R	\$76.20
Maintained	3	1NO-1NC	Left, Right,	CR104PSK33A91W	\$76.20
			and Center		
Maintained 🕨	3	2NO-2NC	Left	CR104PSK33A92L	\$94.20
Maintained	3	2NO-2NC	Center	CR104PSK33A92C	\$94.20
Maintained _	3	2NO-2NC	Right	CR104PSK33A92R	\$94.20
Maintained	3	2NO-2NC	Left, Right,	CR104PSK33A92W	\$94.20
			and Center		
Maintained	5	None	Left	CR104PSK35A00L	\$58.20
Maintained	5	None	Center	CR104PSK35A00C	\$58.20
Maintained	5	None	Right	CR104PSK35A00R	\$58.20
Maintained	5	None	Left, Right,	CR104PSK35A00W	\$58.20
			and Center		
Maintained	5	2NO-2NC	Left	CR104PSK35A92L	\$94.20
Maintained	5	2NO-2NC	Center	CR104PSK35A92C	\$94.20
Maintained	5	2NO-2NC	Right	CR104PSK35A92R	\$94.20
Maintained	5	2NO-2NC	Left, Right,	CR104PSK35A92W	\$94.20
			and Center		
Maintained	6	None	Left	CR104PSK36A00L	\$58.20
Maintained	6	None	Center	CR104PSK36A00C	\$58.20
Maintained	6	None	Right	CR104PSK36A00R	\$58.20
Maintained	6	None	Left, Right,	CR104PSK36A00W	\$58.20
			and Center		
Maintained	6	2NO-2NC	Left	CR104PSK36A92L	\$94.20
Maintained	6	2NO-2NC	Center	CR104PSK36A92C	\$94.20
Maintained	6	2NO-2NC	Right	CR104PSK36A92R	\$94.20
Maintained	6	2NO-2NC	Left, Right,	CR104PSK36A92W	\$94.20
			and Center		

### 3-Position Selector Switches - Key Operated

Operator Type of Mounti Contact Location	ng Type of	Mounting						
	n Contact							
Position Block Left/Rig	ht Block	Left/Right	Block	Left/Right	Block	Left/Right	Block	Left/Right
O O X NO Lor F	-	_	NO	L or R	NO	L or R	NO	Left
O X O	NC	L or R	NC	L or R	NC	Right	-	-
Contact X O O NC Lor F	. NO	L or R	-	-	NC	Left	NO	Right
State X X O	-	-	-	-	-	-	NC	Left
O X X	-	-	-	1	-	-	NC	Right

In the product number of a selector switch, the cam is identified by the fifth figure after the "104". **Example:** CR104PSG2 **1** B, the cam number is 1.

### Schematic Diagrams - Factory Forms

Scrieniut	וט טו	ugit	11113 -	Tuctor	y i orilis
	Contac	ts viev	ved fron	n front of	panel
	Le	eft			Right
1 NO-1 NC Suffix (A91*)	<u>-</u>	2			
	O 3	O 4	NC NO		
2 NO-2 NC Suffix (A92*)	اله	2			010
	O <sub>3</sub>	O 4		NC NO	O O 3 4

Numbers and letters are molded into blocks at terminals. \*Kev removal code.



Extra Keys: See pages 9-39 Nameplates: See pages 9-40 to 9-41 Technical Data: See pages 9-56 to 9-57 **Drilling Plans and Dimensions:** See page 9-57 **Product Number Selection Instructions:** See pages 9-2

# **Pilot and Signaling Devices**

Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

### **CR104P**

**Key Operated** Non-Illuminated 600 Volts Max. AC/DC **10 Amperes Continuous** 

### Units are supplied factory-assembled when ordered with contact blocks.

Product Number and price do not include nameplate. All nameplates must be ordered as a separate item. Two keys included with each cylinder lock.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.



Selector Switch

### 3-Position - Key Operated Spring Return L→C

Release Type	3 Position Cam Code	Contact Configuration	Key Removal	Product Number	List Price GO-10P1
Spring Return L → C	4	None	Center	CR104PSK74A00C	\$70.20
Spring Return L → C	4	None	Right	CR104PSK74A00R	\$70.20
Spring Return L → C	4	None	Center	CR104PSK74A00Q	\$70.20
			and Right		
Spring Return L → C	4	1NO-1NC	Center	CR104PSK74A91C	\$88.20
Spring Return L → C	4	1NO-1NC	Right	CR104PSK74A91R	\$88.20
Spring Return L → C	4	1NO-1NC	Center	CR104PSK74A91Q	\$88.20
			and Right		
Spring Return L → C	4	1NO-1NC	Center	CR104PSK74A91C51 <sup>1</sup>	\$100.20
Spring Return L → C	4	2NO-2NC	Center	CR104PSK74A92C	\$106.20
Spring Return L → C	4	2NO-2NC	Right	CR104PSK74A92R	\$106.20
Spring Return L → C	4	2NO-2NC	Center	CR104PSK74A92Q	\$106.20
			and Right		
Spring Return L → C	2	None	Center	CR104PSK72A00C	\$70.20
Spring Return L → C	2	None	Right	CR104PSK72A00R	\$70.20
Spring Return L → C	2	None	Center	CR104PSK72A00Q	\$70.20
			and Right		
Spring Return L → C	2	1NO-1NC	Center	CR104PSK72A91C	\$88.20
Spring Return L → C	2	1NO-1NC	Right	CR104PSK72A91R	\$88.20
Spring Return L → C	2	1NO-1NC	Center	CR104PSK72A91Q	\$88.20
			and Right		
Spring Return L → C	2	2NO-2NC	Center	CR104PSK72A92C	\$106.20
Spring Return L → C	2	2NO-2NC	Right	CR104PSK72A92R	\$106.20
Spring Return L → C	2	2NO-2NC	Center	CR104PSK72A92Q	\$106.20
			and Right		

<sup>&</sup>lt;sup>1</sup>CH501 keyed cylinder lock. Other listed cylinder locks are alike and use identical keys. Dissimilar locks are also available; contact nearest GE Consumer & Industrial Representative.

### 3-Position - Key Operated Spring eturn L→C (continued)

	3 Position	Contact	Key		List Price
Release Type	Cam Code	Configuration	Removal	Product Number	GO-10P1
Spring Return L → C	3	None	Center	CR104PSK73A00C	\$70.20
Spring Return L → C	3	None	Right	CR104PSK73A00R	\$70.20
Spring Return L → C	3	None	Center	CR104PSK73A00Q	\$70.20
			and Right		
Spring Return L → C	3	1NO-1NC	Center	CR104PSK73A91C	\$88.20
Spring Return L → C	3	1NO-1NC	Right	CR104PSK73A91R	\$88.20
Spring Return L → C	3	1NO-1NC	Center	CR104PSK73A91Q	\$88.20
			and Right		
Spring Return L → C	3	2NO-2NC	Center	CR104PSK73A92C	\$106.20
Spring Return L → C	3	2NO-2NC	Right	CR104PSK73A92R	\$106.20
Spring Return L → C	3	2NO-2NC	Center	CR104PSK73A92Q	\$106.20
X			and Right		
Spring Return L → C	5	None	Center	CR104PSK75A00C	\$70.20
Spring Return L → C	5	None	Right	CR104PSK75A00R	\$70.20
Spring Return L → C	5	None	Center	CR104PSK75A00Q	\$70.20
			and Right		
Spring Return L → C	5	2NO-2NC	Center	CR104PSK75A92C	\$70.20
Spring Return L → C	5	2NO-2NC	Right	CR104PSK75A92R	\$70.20
Spring Return L → C	5	2NO-2NC	Center	CR104PSK75A92Q	\$70.20
			and Right		
Spring Return L → C	6	None	Center	CR104PSK76A00C	\$70.20
Spring Return L → C	6	None	Right	CR104PSK76A00R	\$70.20
Spring Return L → C	6	None	Center	CR104PSK76A00Q	\$70.20
			and Right		
Spring Return L → C	6	2NO-2NC	Center	CR104PSK76A92C	\$106.20
Spring Return L → C	6	2NO-2NC	Right	CR104PSK76A92R	\$106.20
Spring Return L → C	6	2NO-2NC	Center	CR104PSK76A92Q	\$106.20
			and Right		

### 3-Position Selector Switches - Key Operated

				Car	n #4	Car	Cam #2 Cam #3		n #3	Cam #5		Cam #6	
Operator Position	$\odot$	•	<b>③</b>		Mounting Location Left/Right	Contact		Contact		Contact		Contact	
	0	0	Х	NO	L or R	- 1	-	NO	L or R	NO	L or R	NO	Left
	0	Χ	0	-	-	NC	L or R	NC	L or R	NC	Right	-	-
Contact	Χ	0	0	NC	L or R	NO	L or R	-	-	NC	Left	NO	Right
State	Χ	Χ	0	-	T (-7 /	<u> </u>	-	-	-	-	-	NC	Left
	0	Χ	Χ	-	<b>I F /</b>	-	-	-	-	-	-	NC	Right

In the product number of a selector switch, the cam is identified by the fifth figure after the "104". **Example:** CR104PSG2 **1** B, the cam number is 1.

### **Schematic Diagrams - Factory Forms**

(	Contac	ts viev	ved fror	n front of	panel
	Le	eft			Right
1 NO-1 NC Suffix (A91*)	0	2			
	O 3	O 4	NC NO		
2 NO-2 NC Suffix (A92*)	0	2			
	O 3	0		NC NO	O O

Numbers and letters are molded into blocks at terminals. \*Key removal code.

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Publications and Reference: See Section 17 for a complete list of additional product-related publications

Rev. 1/08 www.geelectrical.com **Control Catalog** Prices and data subject to change without notice

# Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches CR104P

Key Operated Non-Illuminated 600 Volts Max. AC/DC

**10 Amperes Continuous** 

### Units are supplied factory-assembled when ordered with contact blocks.

Product Number and price do not include nameplate. All nameplates must be ordered as a separate item. Two keys included with each cylinder lock.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.



**Key Selector Switch** 

### 3-Position - Key Operated Spring Return C←R

<u>5 1 03101011 10</u>	3 Positio		ing iteturii t	- N	
	Cam	Contact	Key		List Price
Release Type		Configuration	Removal	Product Number	GO-10P1
Spring Return C ← R	4	None	Left	CR104PSK84A00L	\$70.20
Spring Return C ← R	4	None	Center	CR104PSK84A00C	\$70.20
Spring Return C ← R	4	None	Left and Center	CR104PSK84A00D	\$70.20
Spring Return C ← R	4	1NO-1NC	Left	CR104PSK84A91L	\$88.20
Spring Return C ← R	4	1NO-1NC	Center	CR104PSK84A91C	\$88.20
Spring Return C ← R	4	1NO-1NC	Left and Center	CR104PSK84A91D	\$88.20
Spring Return C ← R	4	1NO-1NC	Center	CR104PSK84A91C51 <sup>1</sup>	\$100.20
Spring Return C ← R	4	2NO-2NC	Left	CR104PSK84A92L	\$106.20
Spring Return C ← R	4	2NO-2NC	Center	CR104PSK84A92C	\$106.20
Spring Return C ← R	4	2NO-2NC	Left and Center	CR104PSK84A92D	\$106.20
Spring Return C ← R	2	None	Left	CR104PSK82A00L	\$70.20
Spring Return C ← R	2	None	Center	CR104PSK82A00C	\$70.20
Spring Return C ← R	2	None	Left and Center	CR104PSK82A00D	\$70.20
Spring Return C ← R	2	1NO-1NC	Left	CR104PSK82A91L	\$88.20
Spring Return C ← R	2	1NO-1NC	Center	CR104PSK82A91C	\$88.20
Spring Return C ← R	2	1NO-1NC	Left and Center	CR104PSK82A91D	\$88.20
Spring Return C ← R	2	2NO-2NC	Left	CR104PSK82A92L	\$106.20
Spring Return C ← R	2	2NO-2NC	Center	CR104PSK82A92C	\$106.20
Spring Return C ← R	2	2NO-2NC	Left and Center	CR104PSK82A92D	\$106.20
Spring Return C ← R	3	None	Left	CR104PSK83A00L	\$70.20
Spring Return C ← R	3	None	Center	CR104PSK83A00C	\$70,20
Spring Return C ← R	3	None	Left and Center	CR104PSK83A00D	\$70,20
Spring Return C ← R	3	1NO-1NC	Left	CR104PSK83A91L	\$88.20
Spring Return C ← R	3	1NO-1NC	Center	CR104PSK83A91C	\$88.20
Spring Return C ← R	3	1NO-1NC	Left and Center	CR104PSK83A91D	\$88.20
Spring Return C ← R	3	2NO-2NC	Left	CR104PSK83A92L	\$106.20
Spring Return C ← R	3	2NO-2NC	Center	CR104PSK83A92C	\$106.20
Spring Return C ← R	3	2NO-2NC	Left and Center	CR104PSK83A92D	\$106.20
Spring Return C ← R	5	None	Left	CR104PSK85A00L	\$70.20
Spring Return C ← R	5	None	Center	CR104PSK85A00C	\$70.20
Spring Return C ← R	5	None	Left and Center	CR104PSK85A00D	\$70.20
Spring Return C ← R	5	2NO-2NC	Left	CR104PSK85A92L	\$106.20
Spring Return C ← R	5	2NO-2NC	Center	CR104PSK85A92C	\$106.20
Spring Return C ← R	5	2NO-2NC	Left and Center	CR104PSK85A92D	\$106.20
Spring Return C ← R	6	None	Left	CR104PSK86A00L	\$70.20
Spring Return C ← R	6	None	Center	CR104PSK86A00C	\$70.20
Spring Return C ← R	6	None	Left and Center	CR104PSK86A00D	\$70.20
Spring Return C ← R	6	2NO-2NC	Left	CR104PSK86A92L	\$106.20
Spring Return C ← R	6	2NO-2NC	Center	CR104PSK86A92C	\$106.20
Spring Return C ← R	6	2NO-2NC	Left and Center	CR104PSK86A92D	\$106.20
1005041 1 1		and the t	P 1 1 1	101 1 1 1 1	_

# <sup>1</sup>CH501 keyed cylinder lock. Other listed cylinder locks are alike and use identical keys. Dissimilar locks are also available; contact nearest GE Consumer & Industrial Representative.

### 3-Position Selector Switches - Key Operated

				Car	Cam #4 Cam #2		Cam #3		Cam #5		Cam #6		
Operator Position	$\bullet$	<b>(I</b> )	<b>(</b>		Mounting Location Left/Right	Contact		Contact		Contact		Contact	
FUSILIUII	$\overline{}$	$\overline{}$	$\overline{}$	BIOCK	Leit/Right	BIOCK	Leit/Rigit	BIOCK	Leit/Rigiit	BIOCK	Leit/Rigitt	DIOCK	Leit/Rigit
	0	0	Χ	NO	L or R	-	-	NO	L or R	NO	L or R	NO	Left
	0	Χ	0	-	-	NC	L or R	NC	L or R	NC	Right	-	-
Contact	Χ	0	0	NC	L or R	NO	L or R	-	-	NC	Left	NO	Right
State	Χ	Χ	0	-	-	-	-	-	-	-	-	NC	Left
	0	Χ	X	-		-	-	-	-	-	-	NC	Right

In the product number of a selector switch, the cam is identified by the fifth figure after the "104". **Example:** CR104PSG2 1 B, the cam number is 1.

### 3-Position - Key Operated Spring Return L→C←F

	3 Positio	on			
	Cam	Contact	Key		List Price
Release Type	Code	Configuration	Removal	Product Number	GO-10P1
Spring Return L → C ← R	4	None	Center	CR104PSK94A00C	\$70.20
Spring Return L → C ← R	4	1NO-1NC	Center	CR104PSK94A91C	\$88.20
Spring Return L → C ← R	4	1NO-1NC	Center	CR104PSK94A91C51 <sup>1</sup>	\$100.20
Spring Return L → C ← R	4	2NO-2NC	Center	CR104PSK94A92C	\$106.20
Spring Return L → C ← R	2	None	Center	CR104PSK92A00C	\$70.20
Spring Return L → C ← R	2	1NO-1NC	Center	CR104PSK92A91C	\$88.20
Spring Return L → C ← R	2	2NO-2NC	Center	CR104PSK92A92C	\$106.20
Spring Return L → C ← R	3	None	Center	CR104PSK93A00C	\$70.20
Spring Return L → C ← R	3	1NO-1NC	Center	CR104PSK93A91C	\$88.20
Spring Return L → C ← R	3	2NO-2NC	Center	CR104PSK93A92C	\$106.20
Spring Return L → C ← R	5	None	Center	CR104PSK95A00C	\$70.20
Spring Return L $\rightarrow$ C $\leftarrow$ R	5	2NO-2NC	Center	CR104PSK95A92C	\$106.20
Spring Return L → C ← R	6	None	Center	CR104PSK96A00C	\$70.20
Spring Return L → C ← R	6	2NO-2NC	Center	CR104PSK96A92C	\$106.20

### **Schematic Diagrams - Factory Forms**

(	Contac	ts viev	ved fron	n front of	panel
	Le	eft			Right
1 NO-1 NC Suffix (A91*)	0	2			
	O 3	O 4	NC NO		
2 NO-2 NC Suffix (A92*)	<u>d</u>	2		NC	
	O 3	O 4		NC NO	O O

Numbers and letters are molded into blocks at terminals. \*Key removal code.



Extra Keys: See pages 9-39 Nameplates: See pages 9-40 to 9-41 Technical Data: See pages 9-56 to 9-57 **Drilling Plans and Dimensions:** See page 9-57 **Product Number Selection Instructions:** See pages 9-2

## Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

### Section

### **CR104P**

Knob Operated Illuminated 600 Volts Max. AC/DC 10 Amperes Continuous

## Units are supplied factory-assembled when ordered with contact blocks.

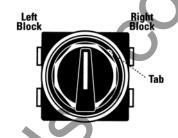
Product Number and price do not include nameplate. All nameplates must be ordered as a separate item.

Resistor forms of 2-position and 3-position illuminated selector switches are available. Contact nearest GE Consumer & Industrial Representative for proper selection and pricing.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.



**Knob Operated** 



Contacts viewed from front of panel.

### 2-Position - Maintained

2 Position	Contact	Power Supply	Input			* *	List Price
Cam Code	Configuration	Туре	Voltage	Lamp Type <sup>2</sup>	Color	Product Number	GO-10P1
1	None	Transformer	120V	Incand., 6V, #755	Red	CR104PST21R00S2	\$70.20
l.	None	Transformer	120V	Incand., 6V, #755	Green	CR104PST21G00S2	\$70.20
l	None	Transformer	120V	Incand., 6V, #755	Yellow	CR104PST21E00S2	\$70.20
l	None	Transformer	120V	Incand., 6V, #755	No Lens	CR104PST21A00S2 <sup>1</sup>	\$66.00
l	1NO-1NC	Transformer	120V	Incand., 6V, #755	Red	CR104PST21R11S2	\$88.20
l	1NO-1NC	Transformer	120V	Incand., 6V, #755	Green	CR104PST21G11S2	\$88.20
L	1NO-1NC	Transformer	120V	Incand., 6V, #755	Yellow	CR104PST21E11S2	\$88.20
	1NO-1NC	Transformer	120V	Incand., 6V, #755	No Lens	CR104PST21A11S2 <sup>1</sup>	\$84.00
	None	Transformer	240V	Incand., 6V, #755	Red	CR104PST21R00S3	\$70.20
	None	Transformer	240V	Incand., 6V, #755	Green	CR104PST21G00S3	\$70.20
	None	Transformer	240V	Incand., 6V, #755_	Yellow	CR104PST21E00S3	\$70.20
	None	Transformer	240V	Incand., 6V, #755	No Lens	CR104PST21A00S3 <sup>1</sup>	\$66.00
	1NO-1NC	Transformer	240V	Incand., 6V, #755	Red	CR104PST21R11S3	\$88.20
	1NO-1NC	Transformer	240V	Incand., 6V, #755	Green	CR104PST21G11S3	\$88.20
	1NO-1NC	Transformer	240V	Incand, 6V, #755	Yellow	CR104PST21E11S3	\$88.20
	1NO-1NC	Transformer	240V	Incand., 6V, #755	No Lens	CR104PST21A11S3 <sup>1</sup>	\$84.00
	None	Full Voltage	6V	Incand., 6V, #755	Red	CR104PSL21R00S6	\$58.20
	None	Full Voltage	6V	Incand., 6V, #755	Green	CR104PSL21G00S6	\$58.20
	None	Full Voltage	6V	Incand., 6V, #755	Yellow	CR104PSL21E00S6	\$58.20
	None	Full Voltage	6V	Incand., 6V, #755	No Lens	CR104PSL21A00S6 <sup>1</sup>	\$54.00
	1NO-1NC	Full Voltage	6V	Incand., 6V, #755	Red	CR104PSL21R11S6	\$76.20
	1NO-1NC	Full Voltage	67	Incand., 6V, #755	Green	CR104PSL21G11S6	\$76.20
	1NO-1NC	Full Voltage	6V	Incand., 6V, #755	Yellow	CR104PSL21E11S6	\$76.20
	1NO-1NC	Full Voltage	6V	Incand., 6V, #755	No Lens	CR104PSL21A11S6 <sup>1</sup>	\$72.00
	None	Full Voltage	24V	Incand., 24V, #1819	Red	CR104PSL21R00S8	\$58.20
	None	Full Voltage	24V	Incand., 24V, #1819	Green	CR104PSL21G00S8	\$58.20
	None	Full Voltage	24V	Incand., 24V, #1819	Yellow	CR104PSL21E00S8	\$58.20
	None	Full Voltage	24V	Incand., 24V, #1819	No Lens	CR104PSL21A00S8 <sup>1</sup>	\$54.00
	1NO-1NC	Full Voltage	24V	Incand., 24V, #1819	Red	CR104PSL21R11S8	\$76.20
	1NO-1NC	Full Voltage	24V	Incand., 24V, #1819	Green	CR104PSL21G11S8	\$76.20
	1NO-1NC	Full Voltage	24V	Incand., 24V, #1819	Yellow	CR104PSL21E11S8	\$76.20
	1NO-1NC	Full Voltage	24V	Incand., 24V, #1819	No Lens	CR104PSL21A11S8 <sup>1</sup>	\$72.00
	None	Full Voltage	120V	Incand., 130V	Red	CR104PSL21R00S2	\$58.20
	None	Full Voltage	120V	Incand., 130V	Green	CR104PSL21G00S2	\$58.20
	None	Full Voltage	120V	Incand., 130V	Yellow	CR104PSL21E00S2	\$58.20
	None	Full Voltage	120V	Incand., 130V	No Lens	CR104PSL21A00S2 <sup>1</sup>	\$54.00
	1NO-1NC	Full Voltage	120V	Incand., 130V	Red	CR104PSL21R11S2	\$76.20
1	1NO-1NC	Full Voltage	120V	Incand., 130V	Green	CR104PSL21G11S2	\$76.20
4	1NO-1NC	Full Voltage	120V	Incand., 130V	Yellow	CR104PSL21E11S2	\$76.20
	1NO-1NC	Full Voltage	120V	Incand., 130V	No Lens	CR104PSL21A11S2 <sup>1</sup>	\$72.00
-							

<sup>&</sup>lt;sup>1</sup>Select required lens from page 9-36 and order as separate item. To order assembled units with lens colors not listed above, substitute the following letters in place of "A" in Product Number: L (Blue), M (Amber), W (White), or C (Clean). Price is same as for units with lenses of listed colors.

### 2-Position Selector Switches - Illuminated

				Can	n #1
Operator Position	$\odot$	•	<b>(</b>	Type of Contact Block	Mounting Location Left/Right
Contact	0	_	Х	NO	Right
State	X	-	0	NC	Left

<sup>-:</sup> This position is a "pass through".

Example: CR104PSG2 1 B, the cam number is 1.

### **Schematic Diagrams - Factory Forms**

Contacts viewed from front of panel						
	Left	Right				
1 NO-1 NC Suffix (11S*)		3 4				

Numbers and letters are molded into blocks at terminals. \*Voltage digit.

9-25

**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

Rev. 1/08 Prices and data subject to change without notice www.geelectrical.com Control Catalog

<sup>&</sup>lt;sup>2</sup>All lamps miniature bayonet base.

In the product number of a selector switch, the cam is identified by the fifth figure after the "104".

# Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertiah

# Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

CR104P
Knob Operated
Illuminated

600 Volts Max. AC/DC 10 Amperes Continuous

## Units are supplied factory-assembled when ordered with contact blocks.

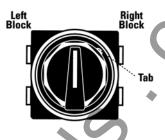
Product Number and price do not include nameplate. All nameplates must be ordered as a separate item.

Resistor forms of 2-position and 3-position illuminated selector switches are available. Contact nearest GE Consumer & Industrial Representative for proper selection and pricing.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.



Transformer



Section 9

Contacts viewed from front of panel.

### 3-Position Maintained Transformer Type

3-P0	sition Main	itained	Transformer	Type		
3 Posit	ion					List
Cam	Contact	Input			Product	Price
Code	Configuration	Voltage	Lamp Type <sup>2</sup>	Color	Number	GO-10P1
4	None	120V	Incand., 6V, #755	Red	CR104PST34R00S2	\$70.20
4	None	120V	Incand., 6V, #755	Green	CR104PST34G00S2	\$70.20
4	None	120V	Incand., 6V, #755	Yellow	CR104PST34E00S2	\$70.20
4	None	120V	Incand., 6V, #755	No Lens	CR104PST34A00S2 <sup>1</sup>	\$66.00
4	1NO-1NC	120V	Incand., 6V, #755	Red	CR104PST34R11S2	\$88.20
4	1NO-1NC	120V	Incand., 6V, #755	Green	CR104PST34G11S2	\$88.20
4	1NO-1NC	120V	Incand., 6V, #755	Yellow	CR104PST34E11S2	\$88.20
4	1NO-1NC	120V	Incand., 6V, #755	No Lens	CR104PST34A11S2 <sup>1</sup>	\$84.00
4	None	240V	Incand., 6V, #755	Red	CR104PST34R00S3	\$70.20
4	None	240V	Incand., 6V, #755	Green	CR104PST34G00S3	\$70.20
4	None	240V	Incand., 6V, #755	Yellow	CR104PST34E00S3	\$70.20
4	None	240V	Incand., 6V, #755	No Lens	CR104PST34A00S31	\$66.00
4	1NO-1NC	240V	Incand., 6V, #755	Red	CR104PST34R11S3	\$88.20
4	1NO-1NC	240V	Incand., 6V, #755	Green	CR104PST34G11S3	\$88.20
4	1NO-1NC	240V	Incand., 6V, #755	Yellow	CR104PST34E11S3	\$88.20
4	1NO-1NC	240V	Incand., 6V, #755	No Lens	CR104PST34A11S3 <sup>1</sup>	\$84.00
2	None	120V	Incand., 6V, #755	Red	CR104PST32R00S2	\$70.20
2 2 2 2	None	120V	Incand., 6V, #755	Green	CR104PST32G00S2	\$70.20
2	None	120V	Incand., 6V, #755	Yellow	CR104PST32E00S2	\$70.20
2	None	120V	Incand., 6V, #755	No Lens	CR104PST32A00S2 <sup>1</sup>	\$66.00
	1NO-1NC	120V	Incand., 6V, #755	Red	CR104PST32R11S2	\$88.20
2	1NO-1NC	120V	Incand., 6V, #755	Green	CR104PST32G11S2	\$88.20
2	1NO-1NC	120V	Incand., 6V, #755	Yellow	CR104PST32E11S2	\$88.20
2	1NO-1NC	120V	Incand., 6V, #755	No Lens	CR104PST32A11S2 <sup>1</sup>	\$84.00
2	None	240V	Incand., 6V, #755	Red	CR104PST32R00S3	\$70.20
2	None	240V	Incand., 6V, #755	Green	CR104PST32G00S3	\$70.20
2	None	240V	Incand., 6V, #755	Yellow	CR104PST32E00S3	\$70.20
2	None	240V	Incand., 6V, #755	No Lens	CR104PST32A00S3 <sup>1</sup>	\$66.00
2	1NO-1NC	240V	Incand., 6V, #755	Red	CR104PST32R11S3	\$88.20
2	1NO-1NC	240V	Incand., 6V, #755	Green	CR104PST32G11S3	\$88.20
2	1NO-1NC	240V	Incand., 6V, #755	Yellow	CR104PST32E11S3	\$88.20
2	1NO-1NC	2401/	Incord 6V #755	No Lens	CR104PST32A11S31	\$84.00

### 3-Position Maintained Transformer Type (continued)

3 Positi			,		Don't de la contraction de la	List
Cam	Contact	Input	2		Product	Price
Code	Configuration	Voltage	Lamp Type <sup>2</sup>	Color	Number	GO-10P1
6	None	120V	Incand., 6V, #755	Red	CR104PST36R00S2	\$70.20
6	None	120V	Incand., 6V, #755	Green	CR104PST36G00S2	\$70.20
6	None	120V	Incand., 6V, #755	Yellow	CR104PST36E00S2	\$70.20
6	None	120V	Incand., 6V, #755	No Lens	CR104PST36A00S2 <sup>1</sup>	\$66.00
6	1NO-1NC	120V	Incand., 6V, #755	Red	CR104PST36R11S2	\$88.20
6	1NO-1NC	120V	Incand., 6V, #755	Green	CR104PST36G11S2	\$88.20
6	1NO-1NC	120V	Incand., 6V, #755	Yellow	CR104PST36E11S2	\$88.20
6	1NO-1NC	120V	Incand., 6V, #755	No Lens	CR104PST36A11S2 <sup>1</sup>	\$84.00
6	None	240V	Incand., 6V, #755	Red	CR104PST36R00S3	\$70.20
6	None	240V	Incand., 6V, #755	Green	CR104PST36G00S3	\$70.20
6	None	240V	Incand., 6V, #755	Yellow	CR104PST36E00S3	\$70.20
6	None	240V	Incand., 6V, #755	No Lens	CR104PST36A00S3 <sup>1</sup>	\$66.00
6	1NO-1NC	240V	Incand., 6V, #755	Red	CR104PST36R11S3	\$88.20
6	1NO-1NC	240V	Incand., 6V, #755	Green	CR104PST36G11S3	\$88.20
6	1NO-1NC	240V	Incand., 6V, #755	Yellow	CR104PST36E11S3	\$88.20
6	1NO-1NC	240V	Incand., 6V, #755	No Lens	CR104PST36A11S3 <sup>1</sup>	\$84.00

<sup>&</sup>lt;sup>1</sup>Select required lens from page 9-36 and order as separate item. To order assembled units with lens colors not listed above, substitute the following letters in place of "A" in Product Number: L (Blue), M (Amber), W (White), or C (Clear). Price is same as for units with lenses of listed colors.

### 3-Position Selector Switches - Illuminated

	Car	Cam #2		n #4	Cam #6	
Operator  Position	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right
0 0 X	-	_	NO	Right	_	_
0 X 0	NC	Left	-	_	-	-
Contact X 0 0	NO	Right	NC	Left	NO	Right
State X X O	-	-	-	-	NC	Left
0 X X	_	_	_	_	_	_

In the product number of a selector switch, the cam is identified by the fifth figure after the "104". **Example:** CR104PSG2 **1** B, the cam number is 1.

### **Schematic Diagrams - Factory Forms**

(	Contacts viewed from t	ront of panel
	Left	Right
1 NO-1 NC Suffix (11S*)		3 4

Numbers and letters are molded into blocks at terminals. \*Voltage digit.

Lamps: See pages 9-35

Nameplates: See pages 9-40 to 9-41 Technical Data: See pages 9-56 to 9-57 Drilling Plans and Dimensions: See page 9-57
Product Number Selection Instructions: See pages 9-2

<sup>&</sup>lt;sup>2</sup>All lamps miniature bayonet base.

### **Pilot and Signaling Devices** Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches **CR104P**

**Knob Operated** Illuminated 600 Volts Max. AC/DC **10 Amperes Continuous** 

### Units are supplied factory-assembled when ordered with contact blocks.

Product Number and price do not include nameplate. All nameplates must be ordered as a separate item.

Resistor forms of 2-position and 3-position illuminated selector switches are available. Contact nearest GE Consumer & Industrial Representative for proper selection and pricing. Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.



3-Po	sition Main	tained	Full Voltage	Туре		
3 Positi	ion					List
Cam	Contact	Input			Product	Price
Code	Configuration	Voltage	Lamp Type <sup>2</sup>	Color	Number	GO-10P1
4	None	6V	Incand., 6V, #755	Red	CR104PSL34R00S6	\$58.20
4	None	6V	Incand., 6V, #755	Green	CR104PSL34G00S6	\$58.20
4	None	6V	Incand., 6V, #755	Yellow	CR104PSL34E00S6	\$58.20
4	None	6V	Incand., 6V, #755	No Lens	CR104PSL34A00S6 <sup>1</sup>	\$54.00
4	1NO-1NC	6V	Incand., 6V, #755	Red	CR104PSL34R11S6	\$76.20
4	1NO-1NC	6V	Incand., 6V, #755	Green	CR104PSL34G11S6	\$76.20
4	1NO-1NC	6V	Incand., 6V, #755	Yellow	CR104PSL34E11S6	\$76.20
4	1NO-1NC	6V	Incand., 6V, #755	No Lens	CR104PSL34A11S6 <sup>1</sup>	\$72.00
4	None	24V	Incand., 24V, #1819	Red	CR104PSL34R00S8	\$58.20
4	None	24V	Incand., 24V, #1819	Green	CR104PSL34G00S8	\$58.20
4	None	24V	Incand., 24V, #1819	Yellow	CR104PSL34E00S8	\$58.20
4	None	24V	Incand., 24V, #1819	No Lens	CR104PSL34A00S8 <sup>1</sup>	\$54.00
4	1NO-1NC	24V	Incand., 24V, #1819	Red	CR104PSL34R11S8	\$76.20
4	1NO-1NC	24V	Incand., 24V, #1819	Green	CR104PSL34G11S8	\$76.20
4	1NO-1NC	24V	Incand., 24V, #1819	Yellow	CR104PSL34E11S8	\$76.20
4	1NO-1NC	24V	Incand., 24V, #1819	No Lens	CR104PSL34A11S8 <sup>1</sup>	\$72.00
4	None	120V	Incand., 130V	Red	CR104PSL34R00S2	\$58.20
4	None	120V	Incand., 130V	Green	CR104PSL34G00S2	\$58.20
4	None	120V	Incand., 130V	Yellow	CR104PSL34E00S2	\$58.20
4	None	120V	Incand., 130V	No Lens	CR104PSL34A00S21	\$54.00
4	1NO-1NC	120V	Incand., 130V	Red	CR104PSL34R11S2	\$76.20
4	1NO-1NC	120V	Incand., 130V	Green	CR104PSL34G11S2	\$76.20
4	1NO-1NC	120V	Incand., 130V	Yellow	CR104PSL34E11S2	\$76.20
4	1NO-1NC	120V	Incand., 130V	No Lens	CR104PSL34A11S2 <sup>1</sup>	\$72.00
2	None	6V	Incand., 6V, #755	Red	CR104PSL32R00S6	\$58.20
2	None	6V	Incand., 6V, #755	Green	CR104PSL32G00S6	\$58.20
2	None	6V	Incand., 6V, #755	Yellow	CR104PSL32E00S6	\$58.20
2	None	6V	Incand., 6V, #755	No Lens	CR104PSL32A00S6 <sup>1</sup>	\$54.00
2 2 2	1NO-1NC	6V	Incand., 6V, #755	Red	CR104PSL32R11S6	\$76.20
2	1NO-1NC	6V	Incand., 6V, #755	Green	CR104PSL32G11S6	\$76.20
2	1NO-1NC	6V	Incand., 6V, #755	Yellow	CR104PSL32E11S6	\$76.20
2	1NO-1NC	6V	Incand., 6V, #755	No Lens	CR104PSL32A11S6 <sup>1</sup>	\$72.00
2	None	24V	Incand., 24V, #1819	Red	CR104PSL32R00S8	\$58.20
2	None	24V	Incand., 24V, #1819	Green	CR104PSL32G00S8	\$58.20
2 2 2	None	24V	Incand., 24V, #1819	Yellow	CR104PSL32E00S8	\$58.20
2	None	24V	Incand., 24V, #1819	No Lens	CR104PSL32A00S8 <sup>1</sup>	\$54.00

<sup>&</sup>lt;sup>1</sup>Select required lens from page 9-36 and order as separate item. To order assembled units with lens colors not listed above, substitute the following letters in place of "A" in Product Number: L (Blue), M-(Amber), W (White), or C (Clear). Price is same as for units with lenses of listed colors. <sup>2</sup>All lamps miniature bayonet base.

### 3-Position Maintained Full Voltage Type (continued)

3-PC	Sition Maii	itamea	run voltage i	ype (co	nunuear	
3 Posit						List
Cam	Contact	Input			Product	Price
Code	Configuration	Voltage	Lamp Type <sup>2</sup>	Color	Number	GO-10P1
2	1NO-1NC	24V	Incand., 24V, #1819	Red	CR104PSL32R11S8	\$76.20
2	1NO-1NC	24V	Incand., 24V, #1819	Green	CR104PSL32G11S8	\$76.20
2	1NO-1NC	24V	Incand., 24V, #1819	Yellow	CR104PSL32E11S8	\$76.20
2	1NO-1NC	24V	Incand., 24V, #1819	No Lens	CR104PSL32A11S8 <sup>1</sup>	\$72.00
2	None	120V	Incand., 130V	Red	CR104PSL32R00S2	\$58.20
2	None	120V	Incand., 130V	Green	CR104PSL32G00S2	\$58.20
2	None	120V	Incand., 130V	Yellow	CR104PSL32E00S2	\$58.20
2	None	120V	Incand., 130V	No Lens	CR104PSL32A00S2 <sup>1</sup>	\$54.00
2	1NO-1NC	120V	Incand., 130V	Red	CR104PSL32R11S2	\$76.20
2	1NO-1NC	120V	Incand., 130V	Green	CR104PSL32G11S2	\$76.20
2	1NO-1NC	120V	Incand., 130V	Yellow	CR104PSL32E11S2	\$76.20
2	1NO-1NC	120V	Incand., 130V	No Lens	CR104PSL32A11S2 <sup>1</sup>	\$72.00
6	None	6V	Incand., 6V, #755	Red	CR104PSL36R00S6	\$58.20
6	None	6V	Incand., 6V, #755	Green	CR104PSL36G00S6	\$58.20
6	None	6V	Incand., 6V, #755	Yellow	CR104PSL36E00S6	\$58.20
6	None	6V	Incand., 6V, #755	No Lens	CR104PSL36A00S6 <sup>1</sup>	\$54.00
6	1NO-1NC	6V	Incand., 6V, #755	Red	CR104PSL36R11S6	\$76.20
6	1NO-1NC	6V	Incand., 6V, #755	Green	CR104PSL36G11S6	\$76.20
6	1NO-1NC	6V	Incand., 6V, #755	Yellow	CR104PSL36E11S6	\$76.20
6	1NO-1NC	6V	Incand., 6V, #755	No Lens	CR104PSL36A11S6 <sup>1</sup>	\$72.00
6	None	24V	Incand., 24V, #1819	Red	CR104PSL36R00S8	\$58.20
6	None	24V	Incand., 24V, #1819	Green	CR104PSL36G00S8	\$58.20
6	None	24V	Incand., 24V, #1819	Yellow	CR104PSL36E00S8	\$58.20
6	None	24V	Incand., 24V, #1819	No Lens	CR104PSL36A00S8 <sup>1</sup>	\$54.00
6	1NO-1NC	24V	Incand., 24V, #1819	Red	CR104PSL36R11S8	\$76.20
6	1NO-1NC	24V	Incand., 24V, #1819	Green	CR104PSL36G11S8	\$76.20
6	1NO-1NC	24V	Incand., 24V, #1819	Yellow	CR104PSL36E11S8	\$76.20
6	1NO-1NC	24V	Incand., 24V, #1819	No Lens	CR104PSL36A11S8 <sup>1</sup>	\$72.00
6	None	120V	Incand., 130V	Red	CR104PSL36R00S2	\$58.20
6	None	120V	Incand., 130V	Green	CR104PSL36G00S2	\$58.20
6	None	120V	Incand., 130V	Yellow	CR104PSL36E00S2	\$58.20
6	None	120V	Incand., 130V	No Lens	CR104PSL36A00S2 <sup>1</sup>	\$54.00
6	1NO-1NC	120V	Incand., 130V	Red	CR104PSL36R11S2	\$76.20
6	1NO-1NC	120V	Incand., 130V	Green	CR104PSL36G11S2	\$76.20
6	1NO-1NC	120V	Incand., 130V	Yellow	CR104PSL36E11S2	\$76.20
6	1NO-1NC	120V	Incand., 130V	No Lens	CR104PSL36A11S21	\$72.00

### 3-Position Selector Switches - Illuminated

	Can	n #2	Cam	#4	Cam #6	
Operator Ope	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right
ООХ	_	-	NO	Right	_	-
0 X 0	NC	Left	-	_	-	-
Contact X O O	NO	Right	NC	Left	NO	Right
State X X O	-	-	-	-	NC	Left
0 0 0						

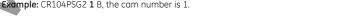
In the product number of a selector switch, the cam is identified by the fifth figure after the "104". Example: CR104PSG2 1 B, the cam number is 1.

Publications and Reference: See Section 17 for a

### **Schematic Diagrams - Factory Forms**

(	Contacts viewed from	front of panel
	Left	Right
1 NO-1 NC Suffix (11S*)		3 4

Numbers and letters are molded into blocks at terminals. \*Voltage digit.





complete list of additional product-related publications

Rev. 1/08 www.geelectrical.com Control Catalog 9-27 Prices and data subject to change without notice

### Pilot and Signaling Devices Heavy-Duty 30.5 mm Waterti

Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches

**CR104P** 

Knob Operated Illuminated 600 Volts Max. AC/DC 10 Amperes Continuous

## Units are supplied factory-assembled when ordered with contact blocks.

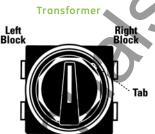
Product Number and price do not include nameplate. All nameplates must be ordered as a separate item.

Resistor forms of 2-position and 3-position illuminated selector switches are available. Contact nearest GE Consumer & Industrial Representative for proper selection and pricing.

Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.



Section 9



Contacts viewed from front of panel.

### 3-Position Spring Return L→C←R Transformer Type

3-Pos	sition Sprin	g Retu	rn L→C←R ˈ	Transtor	mer Type	
3 Positi Cam Code	ion Contact Configuration	Input Voltage	Lamp Type <sup>2</sup>	Color	Product Number	List Price GO-10P1
4	None	120V	Incand., 6V, #755	Red	CR104PST94R00S2	\$82.20
4	None	120V	Incand., 6V, #755	Green	CR104PST94G00S2	\$82.20
4	None	120V	Incand., 6V, #755	Yellow	CR104PST94E00S2	\$82.20
4	None	120V	Incand., 6V, #755	No Lens	CR104PST94A00S2 <sup>1</sup>	\$78.00
4	1NO-1NC	120V	Incand., 6V, #755	Red	CR104PST94R11S2	\$100.20
4	1NO-1NC	120V	Incand., 6V, #755	Green	CR104PST94G11S2	\$100.20
4	1NO-1NC	120V	Incand., 6V, #755	Yellow	CR104PST94E11S2	\$100.20
4	1NO-1NC	120V	Incand., 6V, #755	No Lens	CR104PST94A11S2	\$96.00
4	None	240V	Incand., 6V, #755	Red	CR104PST94R00S3	\$82.20
4	None	240V	Incand., 6V, #755	Green	CR104PST94G00S3	\$82.20
4	None	240V	Incand., 6V, #755	Yellow	CR104PST94E00S3	\$82.20
4	None	240V	Incand., 6V, #755	No Lens	CR104PST94A00S3 <sup>1</sup>	\$78.00
4	1NO-1NC	240V	Incand., 6V, #755	Red	CR104PST94R11S3	\$100.20
4	1NO-1NC	240V	Incand., 6V, #755	Green	CR104PST94G11S3	\$100.20
4	1NO-1NC	240V	Incand., 6V, #755	Yellow	CR104PST94E11S3	\$100.20
4	1NO-1NC	240V	Incand., 6V, #755	No Lens	CR104PST94A11S31	
2	None	120V	Incand., 6V, #755	Red	CR104PST92R00S2	\$82.20
2	None	120V	Incand., 6V, #755	Green	CR104PST92G00S2	\$82.20
2	None	120V	Incand., 6V, #755	Yellow	CR104PST92E00S2	\$82.20
2 2	None	120V	Incand., 6V, #755	No Lens	CR104PST92A00S21	\$78.00
2	1NO-1NC	120V	Incand., 6V, #755	Red	CR104PST92R11S2	\$100.20
2	1NO-1NC	120V	Incand., 6V, #755	Green	CR104PST92G11S2	\$100.20
2	1NO-1NC	120V	Incand., 6V, #755	Yellow	CR104PST92E11S2	\$100.20
2	1NO-1NC	120V	Incand., 6V, #755	No Lens	CR104PST92A11S2 <sup>1</sup>	\$96.00
2 2	None	240V	Incand., 6V, #755	Red	CR104PST92R00S3	\$82.20
2	None	240V	Incand., 6V, #755	Green	CR104PST92G00S3	\$82.20
2	None	240V	Incand., 6V, #755	Yellow	CR104PST92E00S3	\$82.20
2	None	240V	Incand., 6V, #755	No Lens	CR104PST92A00S3 <sup>1</sup>	\$78.00
	1NO-1NC	240V	Incand., 6V, #755	Red	CR104PST92R11S3	\$100.20
2	1NO-1NC	240V	Incand., 6V, #755	Green	CR104PST92G11S3	\$100.20
2	1NO-1NC	240V	Incand., 6V, #755	Yellow	CR104PST92E11S3	\$100.20
2	1NO-1NC	240V	Inca <b>nd</b> ., 6V, #755	No Lens	CR104PST92A11S3 <sup>1</sup>	\$96.00

### 3-Position Spring Return ► C←R Transformer Type (continued)

J-1 03	sition aprili	y recu		lulisioi	mer Type (com	unueu
3 Positio		117				List
Cam	Contact	Input			Product	Price
Code	Configuration	Voltage	Lamp Type <sup>2</sup>	Color	Number	GO-10P1
6	None	120V	Incand., 6V, #755	Red	CR104PST96R00S2	\$82.20
6	None	120V	Incand., 6V, #755	Green	CR104PST96G00S2	\$82.20
6	None	120V	Incand., 6V, #755	Yellow	CR104PST96E00S2	\$82.20
6	None	120V	Incand., 6V, #755	No Lens	CR104PST96A00S21	\$78.00
6	1NO-1NC	120V	Incand., 6V, #755	Red	CR104PST96R11S2	\$100.20
6	1NO-1NC	120V	Incand., 6V, #755	Green	CR104PST96G11S2	\$100.20
6	1NO-1NC	120V	Incand., 6V, #755	Yellow	CR104PST96E11S2	\$100.20
6	1NO-1NC	120V	Incand., 6V, #755	No Lens	CR104PST96A11S2 <sup>1</sup>	\$96.00
6	None	240V	Incand., 6V, #755	Red	CR104PST96R00S3	\$82.20
6	None	240V	Incand., 6V, #755	Green	CR104PST96G00S3	\$82.20
6	None	240V	Incand., 6V, #755	Yellow	CR104PST96E00S3	\$82.20
6	None	240V	Incand., 6V, #755	No Lens	CR104PST96A00S3 <sup>1</sup>	\$78.00
6	1NO-1NC	240V	Incand., 6V, #755	Red	CR104PST96R11S3	\$100.20
6	1NO-1NC	240V	Incand., 6V, #755	Green	CR104PST96G11S3	\$100.20
6	1NO-1NC	240V	Incand., 6V, #755	Yellow	CR104PST96E11S3	\$100.20
6	1NO-1NC	240V	Incand., 6V, #755	No Lens	CR104PST96A11S3 <sup>1</sup>	\$96.00

<sup>1</sup>Select required lens from page 9-36 and order as separate item. To order assembled units with lens colors not listed above, substitute the following letters in place of "A" in Product Number: L (Blue), M (Amber), W (White), or C (Clear). Price is same as for units with lenses of listed colors.

<sup>2</sup>All lamps miniature bayonet base.

### 3-Position Selector Switches - Illuminated

			Cam #2		Cam	#4	Cam #6	
Operator Position	• • • • • • • • • • • • • • • • • • •	<b>9</b>	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right
	0 0	X	_	_	NO	Right	_	_
	0 X	0	NC	Left	-	_	-	-
Contact	X O	0	NO	Right	NC	Left	NO	Right
State	XX	0	_	-	-	-	NC	Left
	0 X	X	-	-	-	-	-	-

In the product number of a selector switch, the cam is identified by the fifth figure after the "104". **Example:** CR104PSG2 **1** B, the cam number is 1.

### Schematic Diagrams - Factory Forms

Contacts viewed from front of panel				
	Left	Right		
1 NO-1 NC Suffix (11S*)	010	3 4		

Numbers and letters are molded into blocks at terminals. \*Voltage digit.



Lamps: See pages 9-35 Nameplates: See pages 9-40 to 9-41 Technical Data: See pages 9-56 to 9-57 **Drilling Plans and Dimensions:** See page 9-57 **Product Number Selection Instructions:** See pages 9-2

### **Pilot and Signaling Devices** Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches **CR104P**

**Knob Operated** Illuminated 600 Volts Max. AC/DC **10 Amperes Continuous** 

### Units are supplied factory-assembled when ordered with contact blocks.

Product Number and price do not include nameplate. All nameplates must be ordered as a separate item.

Resistor forms of 2-position and 3-position illuminated selector switches are available. Contact nearest GE Consumer & Industrial Representative for proper selection and pricing. Suitable for use in NEMA Type 1, 3, 3R, 4, 4X, 12, and 13 applications, when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

### 3-Position Spring Return L > C R Full Voltage Type

<u>3-Po</u>	sition Sprir	ıg Reti	ırn L→C←R F	ull Volt	age Type	
3 Posit	ion					List
Cam	Contact	Input			Product	Price
Code	Configuration	Voltage	Lamp Type <sup>2</sup>	Color	Number	GO-10P1
4	None	6V	Incand., 6V, #755	Red	CR104PSL94R00S6	\$70.20
4	None	6V	Incand., 6V, #755	Green	CR104PSL94G00S6	\$70.20
4	None	6V	Incand., 6V, #755	Yellow	CR104PSL94E00S6	\$70.20
4	None	6V	Incand., 6V, #755	No Lens	CR104PSL94A00S6 <sup>1</sup>	\$66.00
4	1NO-1NC	6V	Incand., 6V, #755	Red	CR104PSL94R11S6	\$88.20
4	1NO-1NC	6V	Incand., 6V, #755	Green	CR104PSL94G11S6	\$88.20
4	1NO-1NC	6V	Incand., 6V, #755	Yellow	CR104PSL94E11S6	\$88.20
4	1NO-1NC	6V	Incand., 6V, #755	No Lens	CR104PSL94A11S6 <sup>1</sup>	\$84.00
4	None	24V	Incand., 24V, #1819	Red	CR104PSL94R00S8	\$70.20
4	None	24V	Incand., 24V, #1819	Green	CR104PSL94G00S8	\$70.20
4	None	24V	Incand., 24V, #1819	Yellow	CR104PSL94E00S8	\$70.20
4	None	24V	Incand., 24V, #1819	No Lens	CR104PSL94A00S8 <sup>1</sup>	\$66.00
4	1NO-1NC	24V	Incand., 24V, #1819	Red	CR104PSL94R11S8	\$88.20
4	1NO-1NC	24V	Incand., 24V, #1819	Green	CR104PSL94G11S8	\$88.20
4	1NO-1NC	24V	Incand., 24V, #1819	Yellow	CR104PSL94E11S8	\$88.20
4	1NO-1NC	24V	Incand., 24V, #1819	No Lens	CR104PSL94A11S81	\$84.00
4	None	120V	Incand., 130V	Red	CR104PSL94R00S2	\$70.20
4	None	120V	Incand., 130V	Green	CR104PSL94G00S2	\$70.20
4	None	120V	Incand., 130V	Yellow	CR104PSL94E00S2	\$70.20
4	None	120V	Incand., 130V	No Lens	CR104PSL94A00S2 <sup>1</sup>	\$66.00
4	1NO-1NC	120V	Incand., 130V	Red	CR104PSL94R11S2	\$88.20
4	1NO-1NC	120V	Incand., 130V	Green	CR104PSL94G11S2	\$88.20
4	1NO-1NC	120V	Incand., 130V	Yellow	CR104PSL94E11S2	\$88.20
4	1NO-1NC	120V	Incand., 130V	No Lens	CR104PSL94A11S21	\$84.00
2	None	6V	Incand., 6V, #755	Red	CR104PSL92R00S6	\$70.20
2	None	6V	Incand., 6V, #755	Green	CR104PSL92G00S6	\$70.20
2	None	6V	Incand., 6V, #755	Yellow	CR104PSL92E00S6	\$70.20
2	None	6V	Incand., 6V, #755	No Lens	CR104PSL92A00S6 <sup>1</sup>	\$66.00
2	1NO-1NC	6V	Incand., 6V, #755	Red	CR104PSL92R11S6	\$88.20
2	1NO-1NC	6V	Incand., 6V, #755	Green	CR104PSL92G11S6	\$88.20
	1NO-1NC	6V	Incand., 6V, #755	Yellow	CR104PSL92E11S6	\$88.20
2	1NO-1NC	6V	Incand., 6V, #755	No Lens	CR104PSL92A11S6 <sup>1</sup>	\$84.00
2	None	24V	Incand., 24V, #1819	Red	CR104PSL92R00S8	\$70.20
2	None	24V	Incand., 24V, #1819	Green	CR104PSL92G00S8	\$70.20
2	None	24V	Incand., 24V, #1819	Yellow	CR104PSL92E00S8	\$70.20
2	None	24V	Incand., 24V, #1819	No Lens	CR104PSL92A00S8 <sup>1</sup>	\$66.00
2	1NO-1NC	24V	Incand., 24V, #1819	Red	CR104PSL92R11S8	\$88.20
2	1NO-1NC	24V	Incand., 24V, #1819	Green	CR104PSL92G11S8	\$88.20
2	1NO-1NC	24V	Incand., 24V, #1819	Yellow	CR104PSL92E11S8	\$88.20
2	1NO-1NC	24V	Incand., 24V, #1819	No Lens	CR104PSL92A11S8 <sup>1</sup>	\$84.00

	3-Po:	sition Sprir	ıg Retu	rn L→C <del>C</del> R F	ull Volt	age Type (cont	inued)
	3 Positi	on					List
	Cam	Contact	Input			Product	Price
	Code	Configuration	Voltage	Lamp Type <sup>2</sup>	Color	Number	GO-10P1
	2	None	120V	Incand., 130V	Red	CR104PSL92R00S2	\$70.20
	2	None	120V	Incand., 130V	Green	CR104PSL92G00S2	\$70.20
	2	None	120V	Incand., 130V	Yellow	CR104PSL92E00S2	\$70.20
	2 2 2 2 2 2 2 2 2 6 6 6	None	120V	Incand., 130V	No Lens	CR104PSL92A00S2 <sup>1</sup>	\$66.00
	2	1NO-1NC	120V	Incand., 130V	Red	CR104PSL92R11S2	\$88.20
	2	1NO-1NC	120V	Incand., 130V	Green	CR104PSL92G11S2	\$88.20
	2	1NO-1NC	120V	Incand., 130V	Yellow	CR104PSL92E11S2	\$88.20
	2	1NO-1NC	120V	Incand., 130V	No Lens	CR104PSL92A11S2 <sup>1</sup>	\$84.00
	6	None	6V	Incand., 6V, #755	Red	CR104PSL96R00S6	\$70.20
	6	None	6V	Incand., 6V, #755	Green	CR104PSL96G00S6	\$70.20
	6	None	6V	Incand., 6V, #755	Yellow	CR104PSL96E00S6	\$70.20
À	6	None	6V	Incand., 6V, #755	No Lens	CR104PSL96A00S6 <sup>1</sup>	\$66.00
7		1NO-1NC	6V	Incand., 6V, #755	Red	CR104PSL96R11S6	\$88.20
h	6	1NO-1NC	6V	Incand., 6V, #755	Green	CR104PSL96G11S6	\$88.20
7	6	1NO-1NC	6V	Incand., 6V, #755	Yellow	CR104PSL96E11S6	\$88.20
7	6	1NO-1NC	6V	Incand., 6V, #755	No Lens	CR104PSL96A11S6 <sup>1</sup>	\$84.00
	6 6 6	None	24V	Incand., 24V, #1819	Red	CR104PSL96R00S8	\$70.20
	6	None	24V	Incand., 24V, #1819	Green	CR104PSL96G00S8	\$70.20
	6	None	24V	Incand., 24V, #1819	Yellow	CR104PSL96E00S8	\$70.20
	6	None	24V	Incand., 24V, #1819	No Lens	CR104PSL96A00S8 <sup>1</sup>	\$66.00
		1NO-1NC	24V	Incand., 24V, #1819	Red	CR104PSL96R11S8	\$88.20
	6	1NO-1NC	24V	Incand., 24V, #1819	Green	CR104PSL96G11S8	\$88.20
	6	1NO-1NC	24V	Incand., 24V, #1819	Yellow	CR104PSL96E11S8	\$88.20
	6	1NO-1NC	24V	Incand., 24V, #1819	No Lens	CR104PSL96A11S8 <sup>1</sup>	\$84.00
		None	120V	Incand., 130V	Red	CR104PSL96R00S2	\$70.20
	6	None	120V	Incand., 130V	Green	CR104PSL96G00S2	\$70.20
	6	None	120V	Incand., 130V	Yellow	CR104PSL96E00S2	\$70.20
	6	None	120V	Incand., 130V	No Lens	CR104PSL96A00S2 <sup>1</sup>	\$66.00
	6	1NO-1NC	120V	Incand., 130V	Red	CR104PSL96R11S2	\$88.20
	6	1NO-1NC	120V	Incand., 130V	Green	CR104PSL96G11S2	\$88.20
	6	1NO-1NC	120V	Incand., 130V	Yellow	CR104PSL96E11S2	\$88.20
	6	1NO-1NC	120V	Incand., 130V	No Lens	CR104PSL96A11S2 <sup>1</sup>	\$84.00

<sup>1</sup>Select required lens from page 9-36 and order as separate item. To order assembled units with lens colors not listed above, substitute the following letters in place of "A" in Product Number: L (Blue), M (Amber), W (White), or C (Clear). Price is same as for units with lenses of listed colors.

### 3-Position Selector Switches - Illuminated

		Car	n #2	Cam	#4	Cam #6	
Operator O	<b>O</b>	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right	Type of Contact Block	Mounting Location Left/Right
_O O	X	_	-	NO	Right	-	_
O X	0	NC	Left	-	_	-	-
Contact X O	0	NO	Right	NC	Left	NO	Right
State X X	0	-	-	-	-	NC	Left
0 X	Χ	-	-	-	-	-	-

n the product number of a selector switch, the cam is identified by the fifth figure after the "104". **Example:** CR104PSG2 **1** B, the cam number is 1.

### **Schematic Diagrams - Factory Forms**

(	Contacts viewed from	front of panel
	Left	Right
1 NO-1 NC Suffix (11S*)	010	3 4

Numbers and letters are molded into blocks at terminals. \*Voltage digit.



Publications and Reference: See Section 17 for a complete list of additional product-related publications

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<sup>&</sup>lt;sup>2</sup>All lamps miniature bayonet base

# Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Selector Switches CR104P

Cam Logic 600 Volts max. AC/DC 10 Amperes Continuous

### 2-Position Selector Switches

				Illuminated or Nonilluminated Only			Nonilluminated Only		
				Car	m #1	Са	m #2	Cam #3	
Operator Position	•	•	•	Type of Contact Block	Mounting Location Left-Right	Type of Contact Block	Mounting Location Left-Right	Type of Contact Block	Mounting Location Left-Right
	0	-	Х	NO	L or R	_		_	
	×	-	0	NC	L or R	-		_	
Contact	×	0	_	_		NO	L or R	_	
State	0	Χ	_	_		NC	L or R	_	
	-	0	_	_		-		NO	L or R
	_	Χ	_	_		_		NC	L or R

In the product number of a 2-position selector switch, the cam is identified by the fifth figure after the "104". Example: CR104PSG2  $\, {f 1} \,$  B, the cam number is 1.

### **Schematic Diagrams**

	Contacts viewed	from front of	panel 🌰
	Left		Right
1 NO-1 NC	010		
	O O NO		
2 NO-2 NC	مُعْدُ	7	
	O O	NC NO	O O

Numbers and letters are molded into blocks at terminals.

### **3-Position Selector Switches**

	Illuminated or Nonilluminated Nonilluminated Only Nonilluminated Only Nonilluminated Only				Illuminated or Nonilluminated								
				Can	n #2	Car	n #3	Can	n #4	Cai	m #5	Car	n #6
Operator Position	$\odot$	•	•	Type of Contact Block	Mounting Location Left-Right	Type of Contact Block	Mounting Location Left-Right						
	0	0	Χ	_	_	NO	L or R	NO	LorR	NO	L or R	NO	Left
	0	Х	0	NC	L or R	NC	L or R		-	NC	Right	2-NC	L+R (IN SERIES) <sup>1</sup>
Contact	X	0	0	NO	L or R	_	-	NC	L or R	NC	Left	NO	Right
State	X	Х	0	1-NO+1-NC	in parallel <sup>1</sup>	_	-	V	-	_	_	NC	Left
	0	Х	Χ	_	_	1-NO+1-NC	in parallel <sup>1</sup>	_	-	-	-	NC	Right
	X	0	Х	_	_	_	X-X	1-NO+1-NC	in parallel¹	NO+NC	Right Left in parallel <sup>1</sup>	2 NO	in parallel <sup>1</sup>

### **4-Position Selector Switch**

					Non-Illumi		
	_	_	_	_		n #7	
Operator					Type of	Mounting Location	
Position	$\cup$	$\cup$	$\cup$	$\cup$	Contact Block	Left-Right	Field Wired
	Х	0	0	0	NC NC	Left	-
	0	0	Х	0	NO	Left	-
	0	0	0	X	NC	Right	-
	0	Х	0	0	NO	Right	-
	0	0	Х	X	NO	Left	2-in parallel
	0	U	^	Λ	NC	Right	z-iii parailei
	0	Х	0	X	NO	Right	2-in parallel
	U	^	U	^	NC	Right	z-iii parailei
	0	Х	Χ.	0	NO	Left	2-in parallel
	U	۸	^_		NO Right	Right	z-iri parallei
	X	0	40	, T	NC	Left	2-in parallel
	^	- 0	0	1	NC	Right	z-iii parailei
Contact	X	0	X	0	NO	Left	2-in parallel
State	^	- 4	^		NC	Left	z-iii parailei
					NO	Left	
	0	X	X	X	NO	Right	3-in parallel
					NC	Right	
					NO	Left	
	X	X	X	0	NC	Left	3-in parallel
		4			NO	Right	
			_		NC	Left	
	X	X	0	X	NO	Right	3-in parallel
					NC	Right	
		<b>—</b>			NO	Left	
	X	0	Χ	X	NC	Left	3-in parallel
					NC	Right	

X = Contact is closed.

O = Contact is open.

NO = Normally open contact.

NC = Normally closed contact.

 - = This position is nonexistent or is a "pass-through" position with no detent to stop or hold the knob there.

<sup>1</sup>Field wired.

In the product number of a 3-position non-illuminated selector switch the fifth figure after the "104" is the cam code number.

Example: In CR104PSG3 2 B91, the cam number is 2. Note that an "open" position for an NO contact may not be a closed position for an NC contact at the same location and knob position. The cam may depress the contact plunger only halfway in that

position.

Changing cams on operators is not recommended: but, changing contact blocks on operators per above chart may meet a special need.

Example: To provide both X O O and O X O operation, simply add a single-circuit NO contact block (Lor R) to a CR104PSG3 2 BO1.

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## Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Special Operators

CR104P Joysticks

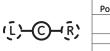
600 Volts max. AC/DC

**10 Amperes Continuous** 

Suitable for use in NEMA Types 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance. Boot is nitride rubber, check for application suitability. For optional silicone boot, contact factory for availability. Nine-position selector switch contact rating is 10 Amperes at 125/150 Volts ac. Terminals are solder or quick connect type.

in center position

### **3-Position**



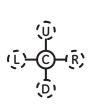
	Contact Block			
Position	Left	Right		
	X	0		
R	0	X		
С	-	-		
	0	Х		
L	×	0		

Release Type	Product Number	List Price GO-10P1
Maintained	CR104PJJ31	\$142.20
Momentary	CR104PJB31	\$142.20
Maintained with	CR104PJJ31B	\$148.20
mechanical interlock		
in center position		
Momentary with	CR104PJB31B	\$148.20
mechanical interlock		

# Momentary

Section 9

### 5-Position



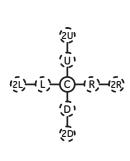
	Contact Block				
Position	Left	Right			
U	X	-			
	0	-			
R	-	0			
K	-	Χ			
С	-	-			
	-	-			
D	0	-			
	X	-			
	-	Х			
"	_	0			

Release Type	Product Number	List Price GO-10P1
Maintained	CR104PJC53	\$166.20
Momentary	CR104PJD53	\$166.20
Maintained with	CR104PJC53B	\$172.20
mechanical interlock in center position		
Momentary with	CR104PJD53B	\$172.20
mechanical interlock in center position		



Maintained

### 9-Position

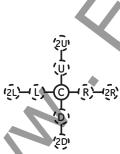


	Contact Block							
Pos.	1	2	3	4	5	6	7	8
2U	0 X	0 X	X O	X O	X O	X O	X O	X
U	X	0 X	X O	X O	X O	X O	X	X
2R	X	X O	X O	X O	0 X	0 X	X	X O
R	X	X O	X O	X 0	X O	0 X	X	X
С	X	X	X O	X	X O	X O	X	X
D	X	×	0 X	X O	×	×	X	X O
2D	X	X	O X	Ŏ	X	X	X O	X O
L	X	X Q	X 0	X	X 0	X 0	0 X	X 0
2L	X	X	X	X	X O	X O	0 X	0 X

Release Type	Product Number	List Price GO-10P1
Maintained	CR104PJL96	\$304.20
Momentary	CR104PJM96	\$304.20
Maintained with	CR104PJL96B	\$310.20
mechanical interlock		
in center position		
Momentary with	CR104PJM96B	\$310.20
mechanical interlock		
in center position		



**Mechanical Interlock** 



	_	CONTUCT BIOCK							
	Pos.	1	2	3	4	5	6	7	8
	20	0 X	X O	X O	X O	X O	X O	X O	X
4	U	X	0 X	X O	X	X O	X O	X O	X
	2R	X	X O	X O	X	0 X	X O	X O	X
	R	X	X O	X O	X	X O	0 X	X O	X
	С	X	X O	X O	X O	X O	X O	X O	X
	D	X O	ХО	0 X	X 0	X 0	X 0	X 0	X O
	2D	X O	X O	X 0	0 X	X 0	X 0	X 0	X 0
	L	X O	X O	X 0	X 0	X 0	X 0	0 X	X O
	2L	X	X O	X O	X O	X O	X O	X O	0 X

Release Type	Product Number	List Price GO-10P1
Maintained	CR104PJL97	\$304.20
Momentary	CR104PJM97	\$304.20
Maintained with	CR104PJL97B	\$310.20
mechanical interlock		
in center position		
Momentary with	CR104PJM97B	\$310.20
mechanical interlock		
in center position		



9-Position



**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

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### Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Special Operators CR104P

Potentiometer Operators 600 Volts max. AC/DC 10 Amperes Continuous

Potentiometer operators are designed for 2-watt potentiometers with shafts 2" long and .25" in diameter. Potentiometers offered here fit that description and also are available as Clinostat model 380C1.

Suitable for use in NEMA Types 1, 3, 3R, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

### **Potentiometer Operators**

		List Price
Ohms	Product Number	GO-10P1
None (Operator Only)	CR104PXP	\$70.20

### **Assembled Potentiometer Operators**

		List Price
Ohms	Product Number	GO-10P1
100 Ohms	CR104PXP01	\$118.20
250 Ohms	CR104PXP02	\$118.20
500 Ohms	CR104PXP03	\$118.20
1,000 Ohms	CR104PXP04	\$118,20
2,500 Ohms	CR104PXP05	\$118.20
5,000 Ohms	CR104PXP06	\$118.20
10,000 Ohms	CR104PXP07	\$118.20
25,000 Ohms	CR104PXP08	\$118.20
50,000 Ohms	CR104PXP09	<b>\$11</b> 8.20
100,000 Ohms	CR104PXP10	\$118.20
250,000 Ohms	CR104PXP11	\$118.20
500,000 Ohms	CR104PXP12	\$118.20
1 million Ohms	CR104PXP13	\$118.20
2.5 million Ohms	CR104PXP14	<b>\$11</b> 8.20
5 million Ohms	CR104PXP15	\$118.20

Section 9

Potentiometer Operator

Nameplates: See pages 9-40 to 9-41 Technical Data: See pages 9-56 to 9-57 Drilling Plans and Dimensions: See page 9-57 Product Number Selection Instructions: See pages 9-2

### Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Accessories CR104P

Contact Blocks 600 Volts max. AC/DC 10 Amperes Continuous

### Description

The basic contact block features one normally open/one normally closed (1NO-1NC) contact with a white plunger. There are two types of standard single contact blocks. One contains 1NC contact with a red plunger; the other contains 1NO contact with a green plunger.

### <u>Application</u>

Gold flashed contacts are recommended for nonarcing, low-level loads (below 48 volts). All standard forms of the CR104P contact blocks are available with gold flashed contacts

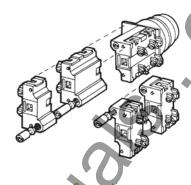
Logic reed contact blocks are specially suited for operations using low voltage levels (24 volts or below) typically available from programmable logic controls or computer systems. They are ideal for use in hostile environments at voltages up to 120 Vac.

### **Installing and Adding Blocks**

A single captive screw, coupled with mating projections and recesses, connects each contact block to the operator or to another contact block, and it provides resistance to shock and vibration. These internally threaded screws make mounting to other blocks possible, allowing assembly of side-by-side and piggyback contact blocks. Depending on the capacity of the operator unit, it is possible to obtain a maximum of eight circuits (four on each side).

### Connections

The terminal screws, equipped with captive saddle clamps, are mounted in offset positions to allow easy accessibility, even when installed with minimum center distance. You need only to strip the wire, place it under the saddle clamp, and tighten it to provide a positive, reliable connection. Standard and gold flashed contact blocks are supplied with IP10 back-of-hand protection to comply with UL508 Section 39A requirement for door mounted devices. Contact blocks are also available with IP20 finger safe protection.



Connections

### Maximum Contacts

Maximum Contacts					
	Single	Current	Double Circuit		
Operator	Blocks	Contacts	Blocks	Contacts	
Non-illuminated selector switches (excluding 4-position)	6	6	6	12	
Combination (push-turn)	6	6	6	12	
Non-illuminated momentary push buttons (incl. mushroom-head)	8	8	4	8	
Illuminated momentary push buttons	4	4	2	4	
Push-to-latch/turn-to-release mushroom-head push buttons	4	4	4	8	
Key push buttons	4	4	4	8	
Illuminated selector switches	4	4	2	4	
3-position & 5-position joysticks	4	4	4	8	
Push-pull illuminated mushroom-head push buttons	2	2	2	4	
Push-pull non-illuminated mushroom-head push buttons	2	2	2	4	
Non-illuminated 4-position selector switches	_	_	2	4	
Push-push illuminated push buttons	2	2	_	_	
	2	2	_	_	



**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

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### Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Accessories CR104P

Contact Blocks 600 Volts max. AC/DC 10 Amperes Continuous

Suitable for use in NEMA Types 1, 3, 3R, 4, 4X, 12, and 13 applications when mounted in enclosures rated for those same applications. For some NEMA Type 4X applications, protective caps will improve corrosion resistance.

### **Standard**

Contact Configuration	Operating Plunger Color	Protection	Product Number	List Price GO-10P1
contact connigaration	operating rianger color	11000000	1104401114111501	00 10.1
1NO-1NC	White	IP10 Back-of-Hand	CR104PXC91	\$18.00
1NO	Green	IP10 Back-of-Hand	CR104PXC1	\$9.00
1NC	Red	IP10 Back-of-Hand	CR104PXC01	\$9.00
1NO (early close)	White	IP10 Back-of-Hand	CR104PXC10E <sup>1</sup>	\$9.00
1NC (late open)	White	IP10 Back-of-Hand	CR104PXC01L <sup>1</sup>	\$9.00
1NO	Green	IP20 Finger	CR104PXC1F	\$12.00
1NC	Red	IP20 Finger	CR104PXC01F	\$12.00
1NO (early close)	White	IP20 Finger	CR104PXC10EF	\$12.00
1NC (late open)	White	IP20 Finger	CR104PXC01LF	\$12.00

 $<sup>^{1}</sup>$ Overlapping contacts can be achieved by combining CR104PXC10E , EF and CR104PXC01L, LF.

### **Gold Flashed**

				List Price
Contact Configuration	Operating Plunger Color	Protection	Product Number	GO-10P1
1NO-1NC	White	IP10 Back-of-Hand	CR104PXC91G	\$36.00
1NO	Green	IP10 Back-of-Hand	CR104PXC10G	\$18.00
1NC	Red	IP10 Back-of-Hand	CR104PXC01G	\$18.00
1NO (early close)	White	IP10 Back-of-Hand	CR104PXC10EG <sup>2</sup>	\$18.00
1NC (late open)	White	IP10 Back-of-Hand	CR104PXC01LG <sup>2</sup>	\$18.00
1NO	Green	IP20 Finger	CR104PXC10GF	\$21.00
1NC	Red	IP20 Finger	CR104PXC01GF	\$21.00
1NO (early close)	White	IP20 Finger	CR104PXC10EGF <sup>2</sup>	\$21.00
1NC (late open)	White	IP20 Finger	CR104PXC01LGF <sup>2</sup>	\$21.00

<sup>&</sup>lt;sup>2</sup>Overlapping contacts can be achieved by combining CR104PXC10EG, EGF and CR104PXC01LG, LGF.

### **Reed Switch**

Contact Configuration	Product Number <sup>3</sup>	List Price GO-10P1
1NO	CR104PXC10R	\$18.00
1NC	CR104PXC01R	\$18.00

<sup>&</sup>lt;sup>3</sup>Sold as components only. Suitable for Class I, Group A,B,C and D, Div. 2, Class II Hazardous Locations; Groups F and G Hazardous Locations when installed in a NEMA Type 4 or 12 enclosure.

### **IP10 Guards For Contact Blocks**

For Use With	Product Number <sup>4</sup>	List Price GO-10P1
1NO	CR104PXG117	\$0.50
1NC	CR104PXG118	\$0.50
1NO-1NC	CR104PXG119	\$0.75

<sup>&</sup>lt;sup>4</sup>Minimum order quantity is 10; package quantity is 10; multiple quantities is 10.

### **IP20 Guards For Contact Blocks**

For Use With	Product Number	List Price GO-10P1
1NO	CR104PXG17	\$3.00
1NC	CR104PXG18	\$3.00
1NO-1NC	CR104PXG19	\$6.00

### Contact Ratings: Standard Blocks-AC Ratings, NEMA A600 Heavy Pilot Duty

Maximum Voltage	Continuous Current Amperes	AC Make Voltamperes @ 60/50 Hz <sup>1</sup>	AC Break Voltamperes @ 60/50 Hz <sup>5</sup>
600 VAC/DC	10	7200	720

 $<sup>^{5}</sup>$ Maximum make and break currents are 60 and 6 amperes respectively for voltages of 120 and below.

### Contact Ratings: Standard Blocks-DC Ratings, NEMA P600 Heavy Pilot Duty

Maximum Make	e or Break /	Amperes	Maximum Make or Break Amperes @ 250 VDC	Maximum Make Or Break Amperes @ 600 VDC
1.1			0.55	0.2

### **Contact Ratings: Reed Switch Blocks**

AC Operating AC Maximum AC Voltage Continuous Current		AC Resistive	DC Operating	DC Maximum	DC Resistive
		VA	Voltage	Continuous Current	Watts
2-120 VAC	.00115A	8 VA maximum	2-30 VDC	.00115A	4.5 Watts maximum



Section 9

Single-Circuit with Finger-Safe Terminals



Single Circuit Contact Block



**Double Circuit Contact Block** 



Reed Switch Contact Block



Nameplates: See pages 9-40 to 9-41 Technical Data: See pages 9-56 to 9-57

Product Number Selection Instructions: See pages 9-2

# Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Accessories

**CR104P** 

Accessories, Components and Kits 600 Volts max. AC/DC 10 Amperes Continuous

### Lamps

				Product	List Price
Bulb Type	Voltage	Lamp Type	Description	Number	GO-10P1
Incandescent with bayonet base	6V	No. 755 Lamp	Transformers	CR104PXA16	\$3.00
			and Full-voltage		
Incandescent with bayonet base	12V	No. 756 Lamp	Full-voltage	CR104PXA12	\$3.00
Incandescent with bayonet base	24V	No. 1819 Lamp	Full-voltage	CR104PXA14	\$3.00
Incandescent with bayonet base	130V		Full-voltage	CR104PXA54	\$3.00
Incandescent with telephone slide base	120V	No. 120PSB Lamp	Full-voltage,	CR104PXA52 <sup>1</sup>	\$3.00
			240 V Resistor		
Incandescent with bayonet base	60V	No. 1835 Lamp	120V Resistor	CR104PXA15	\$3.00
Incandescent Flasher with bayonet base	6V	No. 267 Lamp	Full-voltage	CR104PXA16F	\$6.00
Incandescent with screw base	6V	No. 1768 Lamp	Cluster light	CR104PXA26	\$3.00
Incandescent with screw base	12V	No. 373 Lamp	Cluster light	CR104PXA22	\$3.00
Incandescent with screw base	24V	No. 399 Lamp	Cluster light	CR104PXA24	\$3.00
Neon with bayonet base	120V	No. NE51H-R Lamp		CR104PXA19	\$3.00



Lamps

			Product	List Price
Bulb Type	Voltage	Lamp Type	Number (	GO-10GC
LED with bayonet base	6 VAC/DC	Flat Top; replaces No. 755 Lamp	080BA9S6L*	\$18.00
LED with bayonet base	12 VAC/DC	Flat Top	080BA9S12L*	\$18.00
LED with bayonet base	24 VAC/DC	Flat Top	080BA9S24L*	\$18.00
LED with bayonet base	48 VAC/DC	Flat Top	080BA9S48L*	\$18.00
LED with bayonet base	120 VAC/DC	Flat Top	080BA9S120L*	\$18.00

<sup>\*</sup>Insert LED color from table.

### **LED Colors**

Colors	Red	Green	Yellow	Orange	White	Blue
*Color code	R	V	G	A	В	L

<sup>&</sup>lt;sup>1</sup>For replacement only **(GO-11GS).** 

### **Mushroom-Head Caps**

Mushroom-Head	(max. projection				Product	List Price
Cap Diameter	front of panel)	Color	Illumination	For Use With	Number	GO-10P1
1-3/8" (34.9 mm)	1.10" (27.9 mm)	Black	Non-Illuminated	Standard operators	CR104PXM03B	\$6.00
1-3/8" (34.9 mm)	1.10" (27.9 mm)	Red	Non-Illuminated	Standard operators	CR104PXM03R	\$6.00
1-3/8" (34.9 mm)	1.10" (27.9 mm)	Yellow	Non-Illuminated	Standard operators	CR104PXM03E	\$6.00
1-3/8" (34.9 mm)	1.10" (27.9 mm)	Green	Non-Illuminated	Standard operators	CR104PXM03G	\$6.00
L-3/8" (34.9 mm)	1.10" (27.9 mm)	Red	Non-Illuminated	Push-turn operators	CR104PXM04R	\$6.00
2-3/8" (60.3 mm)	1.10" (27.9 mm)	Black	Non-Illuminated	Standard operators	CR104PXM06B	\$6.00
2-3/8" (60.3 mm)	1.10" (27.9 mm)	Red 📐	Non-Illuminated	Standard operators	CR104PXM06R	\$6.00
2-3/8" (60.3 mm)	1.10" (27.9 mm)	Yellow	Non-Illuminated	Standard operators	CR104PXM06E	\$6.00
2-3/8" (60.3 mm)	1.10" (27.9 mm)	Green	Non-Illuminated	Standard operators	CR104PXM06G	\$6.00
1 3/8" (34.9 mm)	1.20" (30.5 mm)	Red	Illuminated	Standard operators	CR104PXL06R	\$4.20
L 3/8" (34.9 mm)	1.20" (30.5 mm)	Yellow	Illuminated	Standard operators	CR104PXL06E	\$4.20
L 3/8" (34.9 mm)	1.20" (30.5 mm)	Green	Illuminated	Standard operators	CR104PXL06G	\$4.20
L 3/8" (34.9 mm)	1.20" (30.5 mm)	Blue	Illuminated	Standard operators	CR104PXL06L	\$4.20
3/8" (34.9 mm)	1.20" (30.5 mm)	Amber	Illuminated	Standard operators	CR104PXL06M	\$4.20
L 3/8" (34.9 mm)	1.20" (30.5 mm)	White	Illuminated	Standard operators	CR104PXL06W	\$4.20
L 3/8" (34.9 mm)	1.20" (30.5 mm)	Clear	Illuminated	Standard operators	CR104PXL06C	\$4.20
2 3/8" (60.3 mm)	1,20" (30.5 mm)	Red	Non-Illuminated	Key operated	CR104PXM08R	\$6.00
L.58" (40.1 mm)	1.58" (40.1 mm)	Black	Non-Illuminated	CR104PTY	CR104PTYZ152	\$6.00
				protected operators		
L.58" (40.1 mm)	1.58" (40.1 mm)	Red	Illuminated,	CR104PTY	CR104PTYZ153	\$6.00
			Non-Illuminated	protected operators		
L.58" (40.1 mm)	1.58" (40.1 mm)	Orange	Illuminated,	CR104PTY	CR104PTYZ154	\$6.00
			Non-Illuminated	protected operators		
1.58" (40.1 mm)	1.58" (40.1 mm)	Yellow	Illuminated,	CR104PTY	CR104PTYZ155	\$6.00
			Non-Illuminated	protected operators		
L.58" (40.1 m <b>m</b> )	1.58" (40.1 mm)	Green	Illuminated,	CR104PTY	CR104PTYZ156	\$6.00
			Non-Illuminated	protected operators		
1.58" (40.1 mm)	1.58" (40.1 mm)	Blue	Illuminated,	CR104PTY	CR104PTYZ157	\$6.00
			Non-Illuminated	protected operators		
1.58" (40.1 mm)	1.58" (40.1 mm)	White	Illuminated,	CR104PTY	CR104PTYZ158	\$6.00
			Non-Illuminated	protected operators		



CR104PXM06\* Mushroom-Head, 2 3/8" dia.



Mushroom-Head, 1 3/8" dia., Illuminated



CR104XM08R 2 3/8" dia., for Key-Operated Push Buttons



CR104PTZ15\* Replacement heads for protected Mushroom-Heads

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**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

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### Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Accessories CR104P

Accessories, Components and Kits 600 Volts max. AC/DC 10 Amperes Continuous



Depth (max. projection front of panel)	Color	Illumination	Product Number	List Price GO-10P1
1.16" (29.5 mm)	Black	Non-Illuminated	CR104PXM02B	\$.75
1.16" (29.5 mm)	Red	Non-Illuminated	CR104PXM02R	\$.75
1.16" (29.5 mm)	Yellow	Non-Illuminated	CR104PXM02E	\$.75
1.16" (29.5 mm)	Green	Non-Illuminated	CR104PXM02G	\$.75
1.16" (29.5 mm)	Blue	Non-Illuminated	CR104PXM02L	\$.75
1.11" (28.2 mm)	Red	Illuminated	CR104PXL03R	\$4.20
1.11" (28.2 mm)	Yellow	Illuminated	CR104PXL03E	\$4.20
1.11" (28.2 mm)	Green	Illuminated	CR104PXL03G	\$4.20
1.11" (28.2 mm)	Blue	Illuminated	CR104PXL03L	\$4.20
1.11" (28.2 mm)	Amber	Illuminated	CR104PXL03M	\$4.20
1.11" (28.2 mm)	White	Illuminated	CR104PXL03W	\$4.20
1.11" (28.2 mm)	Clear	Illuminated	CR104PXL03C	\$4.20

### Lenses

ECHOCO					
Depth (max. projection					List Price
front of panel)	Color	Illumination	For use with	Product Number	GO-10P1
1.20" (30.5 mm)	Red	Illuminated	Push Buttons	CR104PXL05R	\$4.20
1.20" (30.5 mm)	Yellow	Illuminated	Push Buttons	CR104PXL05E	\$4.20
1.20" (30.5 mm)	Green	Illuminated	Push Buttons	CR104PXL05G	\$4.20
1.20" (30.5 mm)	Blue	Illuminated	Push Buttons	CR104PXL05L	\$4.20
1.20" (30.5 mm)	Amber	Illuminated	Push Buttons	CR104PXL05M	\$4.20
1.20" (30.5 mm)	White	Illuminated	Push Buttons	CR104PXL05W	\$4.20
1.20" (30.5 mm)	Clear	Illuminated	Push Buttons	CR104PXL05C	\$4.20
0.92" (23.4 mm)	Red		Standard Pilot Lights	CR104PXL01R	\$4.20
0.92" (23.4 mm)	Yellow		Standard Pilot Lights	CR104PXL01E	\$4.20
0.92" (23.4 mm)	Green		Standard Pilot Lights	CR104PXL01G	\$4.20
0.92" (23.4 mm)	Blue		Standard Pilot Lights	CR104PXL01L	\$4.20
0.92" (23.4 mm)	Amber		Standard Pilot Lights	CR104PXL01M	\$4.20
0.92" (23.4 mm)	White		Standard Pilot Lights	CR104PXL01W	\$4.20
0.92" (23.4 mm)	Clear		Standard Pilot Lights	CR104PXL01C	\$4.20
1.20" (30.5 mm)	Red		Push-to-test Pilot Lights	CR104PXL07R	\$4.20
1.20" (30.5 mm)	Yellow		Push-to-test Pilot Lights	CR104PXL07E	\$4.20
1.20" (30.5 mm)	Green		Push-to-test Pilot Lights	CR104PXL07G	\$4.20
1.20" (30.5 mm)	Blue		Push-to-test Pilot Lights	CR104PXL07L	\$4.20
1.20" (30.5 mm)	Amber		Push-to-test Pilot Lights	CR104PXL07M	\$4.20
1.20" (30.5 mm)	White		Push-to-test Pilot Lights	CR104PXL07W	\$4.20
1.20" (30.5 mm)	Clear		Push-to-test Pilot Lights	CR104PXL07C	\$4.20

### **Lens and Divider**

			List Price
Color	For use with	Product Number	GO-10P1
White	Cluster Type Pilot Lights	CR104PXL02W	\$5.70
White	Cluster Type Pilot Lights	CR104PXL04W	\$5.70





### CR104PXM02\* Non-Illuminated Knob



CR104PXL03\* Illuminated Knob



CR104PXL05\* Push Button Lens



CR104PXL01\* Standard Pilot Light Lens



CR104PXL07\* Push-to-Test Pilot Light Lens



CR104XL02\* Cluster Type Lens and Divider

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Accessories, Components and Kits 600 Volts max. AC/DC 10 Amperes Continuous



Description	Protective Caps Material	Color	Package Quantity	Product Number	List Price GO-10P1
Lever for combination				CR104PXM07	\$6.00
(push/turn) units					
Protective cap for	Neoprene rubber	Black		CR104PXB01B <sup>1</sup>	\$12.00
standard push button	•				
Protective cap for	Neoprene rubber	Red		CR104PXB01R <sup>1</sup>	\$12.00
standard push button	'				
Protective cap for	Neoprene rubber	Yellow		CR104PXB01E <sup>1</sup>	\$12.00
standard push button	'				
Protective cap for	Neoprene rubber	Green		CR104PXB01G <sup>1</sup>	\$12.00
standard push button	'				
Protective cap for	Silicone	Transparent		CR104PXB01C <sup>1</sup>	\$12.00
tandard push button					V
Protective cap for	Silicone	Transparent		CR104PXB02C <sup>1</sup>	\$18.00
lluminated push button					
or push-to-test pilot light					
Protective cap for	Neoprene rubber with	Black		CR104PXB03C <sup>1</sup>	\$12.00
knob-operated	transparent actuator				
selector switches	transparent actuator				
Protective cap for	Neoprene rubber	Black		CR104PXB04B <sup>1</sup>	\$12.00
ever-operated	ricopiene rabbei	Diddit		0.1.20 1.7.00 1.0	12200
elector switches					
Painted plug for				CR104PXG103 <sup>2</sup>	\$6.00
unused mounting hole				0.110.110.100	40.00
Chrome plated plug for				CR104PXG113 <sup>3</sup>	\$6.00
unused mounting hole					40.00
Color cap kits for		1 Each: Red, Green,	Pkg. of 4	CR104PXM01U	\$1.50
standard push buttons		Yellow, Black	1 Ng. 01 4	C1110417(II 1010	per package
Color cap kits for		1 Each: Brown, Blue,	Pkg. of 4	CR104PXM01V	\$1.50
standard push buttons		Orange, White	i iigi di T		per package
Color cap kits for		Black	Pkg. of 10	CR104PXM01B <sup>4</sup>	\$.30
standard push buttons		Diden	ring. Or To	C111041711101B	ψ.50
Color cap kits for		Red	Pkg. of 10	CR104PXM01R <sup>4</sup>	\$.30
standard push buttons		ned .	1 kg. 01 10	CHIOTHMIOIN	ψ.50
Color cap kits for		Yellow	Pkg. of 10	CR104PXM01E <sup>4</sup>	\$.30
standard push buttons		TCIIOW	11g. 01 10	CHIOTIMIOIL	ψ.50
Color cap kits for		Green	Pkg. of 10	CR104PXM01G <sup>4</sup>	\$.30
standard push buttons		Green	1 kg. 07 10	CN1041 M11010	ψ.50
Color cap kits for		White	Pkg. of 10	CR104PXM01W <sup>4</sup>	\$.30
standard push buttons		Wille	Fkg. 01 10	CKIO4FAI101VV	\$.50
Color cap kits for		Blue	Pkg. of 10	CR104PXM01L <sup>4</sup>	\$.30
standard push buttons		bide	1 Ng. 01 10	CUTO-I VILIOIT.	ψ.50
Color cap kits for		Orange	Pkg. of 10	CR104PXM01M <sup>4</sup>	\$.30
standard push buttons		Ordrige	1 Ng. 01 10	CUTOALVIJOTIAL.	φ.50
Color cap kits for		Clear	Pkg. of 10	CR104PXM01C <sup>4</sup>	\$.30
tandard push buttons		Cleur	rky. 01 10	CVIOALVIANIC,	<b>\$.30</b>
Color cap kits for	<del></del>	Brown	Pkg. of 10	CR104PXM01N <sup>4</sup>	\$.30
standard push buttons		BIOWII	1 Ng. 01 10	CUTOALVI.IOTIN,	φ.50
Designation push buttons					

<sup>&</sup>lt;sup>1</sup>Replaces octagonal ring.



CR104PXM07 Lever for Combination (push/turn) Units





CR104PXB02C For Illuminated or Push-to-Test Push Button



CR104PXB03C For Knob-Operated Selector Switches



CR104PXB04B
For Lever-Operated Selector Switches



CR104PXG1\_3
Plug for Unused Mounting Hole



CR104PXM01\*
Color Cap Kits for Standard Push Buttons



**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

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<sup>&</sup>lt;sup>2</sup>Recommended for use on painted steel enclosures.

 $<sup>{}^3\</sup>mbox{Recommended}$  for use on stainless steel enclosures.

 $<sup>^4</sup>$ This price per each, packaged in quantities of 10 of one color. Must be ordered in multiples of 10.

Accessories, Components and Kits 600 Volts max. AC/DC 10 Amperes Continuous

## **Mushroom-Head Guards**

Mushroom-Head	Depth (max. projection		List Price
Cap Diameter	front of panel)	Product Number	GO-10P1
1 3/8", OD = 1.66" (42.2 mm)	1.38" (35.1 mm)	CR104PXG14	\$24.00
2 3/8", OD = 2.64" (67.1 mm)	1.38" (35.1 mm)	CR104PXG15	\$24.00

## Cluster-Type Pilot Light Boots

			List Price
Color	Package Quantity	Product Number	GO-10P1
Yellow	4	CR104PXL08E <sup>1</sup>	\$0.37
Green	4	CR104PXL08G <sup>1</sup>	\$0.37
Blue	4	CR104PXL08L <sup>1</sup>	\$0.37
Red	4	CR104PXL08R <sup>1</sup>	\$0.37
1 Each: Yellow, Green, Blue, Red	Four, 1 each color	CR104PXL08T	\$1.50
			per package

<sup>&</sup>lt;sup>1</sup>This price per each, packaged in quantities of 4. Must be ordered in multiples of 4.

## **Octagonal Operator Mounting Rings**

	Depth (max. projection			List Price
For use with	front of panel)	Description	Product Number	GO-10P1
Standard Flush Push Buttons,			CR104PXG01	\$1.20
Push-to-test Pilot Lights,				
Mushroom-Head Push Buttons				
Extended Push Buttons,			CR104PXG02	\$1.20
Key-Operated Push Buttons,			4	
Push-to-latch/turn-to-release Push Buttons				
Recessed Push Buttons	0.71" (19.0 mm)		CR104PXG03	\$1.20
Guarded Illuminated Push Buttons	1.20" (30.5 mm)		CR104PXG04	\$6.00
Combination (push/turn) Units			CR104PXG06	\$1.80
Non-illuminated Selector Switches,			CR104PXG07	\$1.20
Joysticks,				
Potentiometer Operators				
Standard Pilot Lights,			CR104PXG08	\$1.20
Illuminated Selector Switches				
Cluster Pilot Lights (2- and 4-lamp)			CR104PXG09	\$1.20
Octagonal Rings	·	CR104P octagonal	CR104PXG104	\$18.00
		ring wrench		

## Stainless Steel Flush Plate

		LIST PITCE
Package Quantity	Product Number	GO-10P8
		-
1	CR2940BD201D	\$18.00





CR104PXG14 Mushroom-Head Guard



CR104PXL08\* Cluster Light Boots



CR104PXG01 Octagonal Mounting
Ring for Standard Flush and MushroomHead Push Buttons, and Push to
Test Pilot Lights



CR104PXG04 Octagonal Mounting Ring for Guarded Illuminated Push Buttons



CR104PXG07 Octagonal Mounting Ring for Non-Illuminated Selector Switches, Joysticks and Potentiometer Operators



CR104PXG104 Octagonal Ring Wrench

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List Dries

## **CR104P**

Accessories, Components and Kits 600 Volts max. AC/DC 10 Amperes Continuous

#### Keys

Description	For use with	Product Number	List Price GO-10P1
Spare standard cylinder lock key	Key-Operated Selection Switches	CR104PXK95	\$3.60
Spare CH501 cylinder lock key	Key-Operated Selection Switches	CR104PXK51	\$3.60
1.5 mm hex key	Push-turn Switch Levers	CR104PXG107	\$1.50
2.0 mm hex key	Standard Push Buttons,	CR104PXG108	\$1.50
	Push-turn Mushroom-head Push Buttons		
2.5 mm hex key	Potentiometer Operators,	CR104PXG109	\$1.50
	Push-turn Mushroom-head Push Buttons		

## **Display Panels**

		List Price
Description	Product Number	GO-10P1
Assembled display panel- 4 operators	CR104PD001B	\$130.00
Assembled display panel - 12 operators	CR104PD001A	\$300.00

## **Terminals**

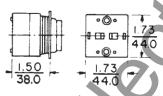
		List Price
Description	Product Number	GO-10P1
100 quick-connect terminals	CR104PXG102	\$68.40
For 9-position joystick contact blocks		

## **Modification Kits**

Kit Type	Description	Product Number	List Price GO-10P1
Push-on/Push-off	Converts standard momentary operator to push-on/push-off	CR104PXF11 <sup>1,2</sup>	\$18.00
Maintained Mechanical Latch for Two Push Buttons	Makes one standard or 1 3/8" mushroom-head	CR104PXF21 <sup>2</sup>	\$18.00
Mechanical Interlock	Prevents simultaneous operation Prevents simultaneous operation	CR104PXF23 <sup>2</sup>	\$18.00
Push-pull	Converts momentary mushroom-head push button to push-to-latch/pull-to-release	CR104PXF12 <sup>2</sup>	\$18.00
Lockout Attachment	Padlockable device to hold standard flush or extended push button in depressed position	CR104PXG13	\$18.00
Locking Cover	Padlockable clear cover for standard knob-operated selector switch	CR104PXG16	\$18.00

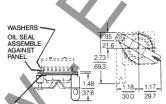
 $<sup>^1</sup>$ This kit can only be used with CR104PXC01 (NC) and/or CR104PXC10E (NO early closing contact blocks).

## Outlines, Dimensions (mm) (For Estimating Only

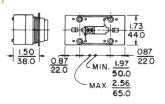


CR104PXF11 CR104PXF12

Modification Kit



CR104PXG13
Modification Kit



CR104PXF21, CR104PXF23 Modification Kit



CR104PD001A Display Panel 12 Operators



CR104PXF11 Modification Kit
- Push on/Push off



CR104PXF21 Modification Kit -Maintained Mech. Latch for 2 Push Buttons



CR104PXG13 Lockout Attachment



CR104PXG16 Locking Cover

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**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

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 $<sup>^{2}\</sup>mathrm{Not}$  for use with illuminated forms.

## **CR104P**

Nameplates and Legend Inserts 600 Volts max. AC/DC 10 Amperes Continuous

## Nameplates-Standard Lithographed

Unless otherwise indicated, all nameplates are black and available in Sizes 1-3 only. To select size, replace asterisk (\*) in product number with appropriate digit from Sizes table.

		List Price
Nameplate Marking	Product Number	GO-10P1
Blank (Sizes 1-5)	CR104PXN*B	\$1.80
Blank (Red, sizes 1-5) Blank (with round)	CR104PXN*R CR104PXN6E	\$1.80 \$2.50
CLOSE	CR104PXN*BP006	\$1.80
DECREASE	CR104PXN*BP007	\$1.80
DOWN	CR104PXN*BP008	\$1.80
EMERGENCY STOP (Red)	CR104PXN*RP009	\$1.80
FAST	CR104PXN*BP010	\$1.80
FORWARD	CR104PXN*BP011	\$1.80
HIGH	CR104PXN*BP012	\$1.80
IN	CR104PXN*BP013	\$1.80
INCH INCH	CR104PXN*BP014	\$1.80
INCREASE	CR104PXN*BP017	\$1.80 \$1.80
JOG FORMARD	CR104PXN*BP018	
JOG FORWARD JOG REVERSE	CR104PXN*BP019 CR104PXN*BP020	\$1.80 \$1.80
LEFT LEFT	CR104PXN*BP021	\$1.80
LOW	CR104PXN*BP022	\$1.80
LOWER	CR104PXN*BP023	\$1.80
OFF	CR104PXN*BP024	\$1.80
ON	CR104PXN*BP025	\$1.80
OPEN	CR104PXN*BP026	\$1.80
OUT	CR104PXN*BP027	\$1.80
POWER ON	CR104PXN*BP084	\$1.80
RAISE	CR104PXN*BP028	\$1.80
RESET	CR104PXN*BP030	\$1.80
RETURN	CR104PXN*BP031	\$1.80
REVERSE	CR104PXN*BP032	\$1.80
RIGHT	CR104PXN*BP033	\$1.80
RUN	CR104PXN*BP034	\$1.80
SLOW START	CR104PXN*BP036 CR104PXN*BP037	\$1.80 \$1.80
START CYCLE	CR104PXN*BP038	\$1.80
STOP (Red)	CR104PXN*RP040	\$1.80
STOP CYCLE (Red)	CR104PXN*RP041	\$1.80
TEST	CR104PXN*BP043	\$1.80
UP	CR104PXN*BP047	\$1.80
EMERGENCY STOP PULL TO TEST (Red)	CR104PXN*RP048	\$1.80
PUSH TO STOP PULL TO START	CR104PXN*BP085	\$1.80
FOR REV	CR104PXN*BP050	\$1.80
HAND AUTO	CR104PXN*BP051	\$1.80
HIGH LOW	CR104PXN*BP052	\$1.80
JOG RUN	CR104PXN*BP053	\$1.80
LEFT RIGHT	CR104PXN*BP054	\$1.80
LOW HIGH LOWER RAISE	CR104PXN*BP05\$ CR104PXN*BP056	\$1.80
OFF ON	CR104PXN*BP056 CR104PXN*BP057	\$1.80 \$1.80
OPEN CLOSE	CR104PXN*BP058	\$1.80
RAISE LOWER	CR104PXN*BP059	\$1.80
REV FOR	CR104PXN*BP060	\$1.80
RUN JOG	CR104PXN*BP061	\$1.80
SAFE RUN	CR104PXN*BP062	\$1.80
SAFE STOP RUN	CR104PXN*BP063	\$1.80
SLOW FAST	CR104PXN*BP064	\$1.80
START JOG	CR104PXN*BP087	\$1.80
START STOP	CR104PXN*BP086	\$1.80
STOP START	CR104PXN*BP065	\$1.80
UP DOWN	CR104PXN*BP066	\$1.80
OFF COOLANT ON	CR104PXN*BP067	\$1.80
AUTO OFF-HAND FOR OFF REV	CR104PXN*BP083 CR104PXN*BP068	\$1.80 \$1.80
FOR OFF REV	CR104PXN*BP068 CR104PXN*BP069	\$1.80 \$1.80
HAND OFF AUTO	CR104PXN*BP069 CR104PXN*BP070	\$1.80 \$1.80
JOG OFF RUN	CR104PXN*BP070 CR104PXN*BP071	\$1.80
JOG SAFE RUN	CR104PXN*BP072	\$1.80
LOW OFF HIGH	CR104PXN*BP073	\$1.80
LOWER OFF RAISE	CR104PXN*BP074	\$1.80
MAN OFF AUTO	CR104PXN*BP076	\$1.80
OPEN OFF CLOSE	CR104PXN*BP077	\$1.80
REV OFF FOR	CR104PXN*BP079	\$1.80
SLOW OFF FAST	CR104PXN*BP080	\$1.80
SLOW STOP FAST	CR104PXN*BP081	\$1.80
POTENTIOMETER MARKINGS	CR104PXN*BP082	\$1.80
POTENTIOMETER MARKINGS OFF AUTO	CR104PXN*BP082 CR104PXN1BP090	\$1.80
POTENTIOMETER MARKINGS OFF AUTO ON OFF AUTO	CR104PXN*BP082 CR104PXN1BP090 CR104PXN1BP091	\$1.80 \$1.80
POTENTIOMETER MARKINGS OFF AUTO	CR104PXN*BP082 CR104PXN1BP090	\$1.80

Sizes*		
Nameplate	Dimensions (H x W, Inches)	*Product No. Digit
Standard (Size 1)	1.98 x 1.93	1
Large (Size 2)	1.98 x 2.63	2
Extra-large, automotive (Size 3)	2.40 x 2.44	31
Small joystick (Size 4; available for XN*R and XN*B only)	2.32 x 2.32	41
Large joystick (Size 5: available for XN*R and XN*B only)	2 92 x 2 92	51





Standard (Size 1)



Large (Size 2)



Extra-large Automotive (Size 3)



Small Joystick (Size 4; available for XN\*R and XN\*B only)



Large Joystick (Size 5; available for XN\*R and XN\*B only)



Nameplates and Legend Inserts 600 Volts max. AC/DC **10 Amperes Continuous** 

## Nameplates-Nonstandard Engraved **Legend Inserts**

Note limitations on number of characters per field. Specify marking desired, by field, for each nameplate ordered. To select color, replace asterisk (\*) in product number with B for black field and letters and with  ${f R}$  for red field and letters. For overall dimensions by nameplate size, see Sizes table, page 9-40.

Style	Nameplate Size	Max. Characters per Field	Product Number	List Pric GO-10P
FIELD I	1	Field 1, 17	CD104DVAI1+D001	£7.00
	1	Field 1: 13	CR104PXN1*B001	\$7.80
	2	Field 1: 16	CR104PXN2*B001	\$7.80
	3	Field 1: 10	CR104PXN3*B001	\$7.80
FIELD I	1	Fields 1-2: 13	CR104PXN1*C001	\$7.80
	2	Fields 1-2: 15	CR104PXN2*C001	\$7.80
	3	Fields 1-2: 10	CR104PXN3*C001	\$7.80
FIELD I	1	Ciald 1, 17, Ciald 3, 7	CD10//DVAI1*D001	67.00
	1	Field 1: 13; Field 2: 7	CR104PXN1*D001	\$7.80 \$7.80
	2	Field 1: 15; Field 2: 8	CR104PXN2*D001	
<u>lillitimedilillili</u>	3	Field 1: 10; Field 2: 5	CR104PXN3*D001	\$7.80
PIELD 2	1	Field 1: 13; Field 2: 7	CR104PXN1*E001	\$7.80
	2	Field 1: 15; Field 2: 8	CR104PXN2*E001	\$7.80
	3	Field 1: 10; Field 2: 5	CR104PXN3*E001	\$7.80
· · · · · · · · · · · · · · · · · · ·		approximation of the second of		720
PIELD 2	1	Fields 1-2: 7	CR104PXN1*F001	\$7.80
WA YM	2	Fields 1-2: 8	CR104PXN2*F001	\$7.80
	3	Fields 1-2: 5	CR104PXN3*F001	\$7.80
FIELD 2 FIELD 1 FIELD 3	1	Field 1, 17, Fields 2, 7, 7	CD10//DVN11+C001	<b>#7.00</b>
CITIES CITIES PELOS	1	Field 1: 13; Fields 2-3: 7	CR104PXN1*G001	\$7.80
WA VA	2	Field 1: 15; Fields 2-3: 8	CR104PXN2*G001	\$7.80
	3	Field 1: 10; Fields 2-3: 5	CR104PXN3*G001	\$7.80
FIELD3 FIELD3 FIELD2 FIELD2 FIELD4	1	Fields 1-4: 5	CR104PXN1*H001	\$7.80
William Pacas	2	Fields 1-4: 6	CR104PXN2*H001	\$7.80
	3	Fields 1-4: 4	CR104PXN3*H001	\$7.80
Pitco		<del>+ ( )</del>		
		Fields 1-2: 16	CD104DVAL4+1001	£7.00
FIELD 2	4	FIGUS 1-2. 16	CR104PXN4*J001	\$7.80
PIELD I				
FIELD 3	4	Fields 1-2: 16; Fields 3-4: 8	CR104PXN4*K001	\$7.80
FIELD 2	,	2. 13, Heids 3-4. 0	SHIOTI MINE MOUL	Ψ1.00
neco :	74			
FIELD2	W			
	5	Fields 1-4: 18	CR104PXN5*L001	\$7.80
PELD 3				
FIELD I				
FIELD 2 FIELD 5 FIELD 6 FIELD 7	5	Fields 1-4: 18; Fields 5-8: 11	CR104PXN5*M001	\$7.80
FELD? FELD8 FELD4			3110 111101	Ψ1.50
PIELDI	1	Field 1: 13	CR104PXN1*N001	\$7.80
			60464644644664	47.00
2	2	Field 1: 16	CR104PXN2*N001	\$7.80

Legend insert kits for standard push buttons with clear caps feature three 2-sided inserts per kit. List Price

Product Number		GO-10P1
CR104PXG101		\$1.80
Insert	Side 1	Side 2
	STOP	0
2	START	0
3	0	0

**Legend Inserts** 

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Publications and Reference: See Section 17 for a complete list of additional product-related publications

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## Pilot and Signaling Devices Heavy-Duty 30.5 mm Waterti

Heavy-Duty 30.5 mm Watertight/Oiltight Kitted Operators

**CR104P** 

Hot Buttons Push Buttons 600 Volts max. AC/DC 10 Amperes Continuous

### Description

Hot Buttons make it easier and faster than ever for you to get the most popular push buttons, pilot lights and selector switches. GE has taken its proven CR104P Heavy-Duty Oiltight push buttons, matched them with their logical and most often-used contacts and nameplates, and put them together. One product number, one box, one price.

#### Standard Flush Non-Illuminated

				List Price
Contact Configuration	Marking	Color	Product Number	GO-10P1
1NO	START	1 Each: Red, Green, Yellow, Black	CR104PBG10U1A1	\$27.00
1NO	RUN	1 Each: Red, Green, Yellow, Black	CR104PBG10U1A2	\$27.00
1NO	ON	1 Each: Red, Green, Yellow, Black	CR104PBG10U1A3	\$27.00
1NC	STOP	1 Each: Red, Green, Yellow, Black	CR104PBG01U1A1	\$27.00
1NC	OFF	1 Each: Red, Green, Yellow, Black	CR104PBG01U1A2	\$27.00

### Standard Extended Illuminated

						List Price
Guard	<b>Contact Configuration</b>	Marking	Color	Voltage	Product Number	GO-10P1
with Guard	1NO-1NC	START	Green	Transformer 120V	CR104PBT11G3S2A1	\$90.00
with Guard	1NO-1NC	RUN	Green	Transformer 120V	CR104PBT11G3S2A2	\$90.00
with Guard	1NO-1NC	ON	Green	Transformer 120V	CR104PBT11G3S2A3	\$90.00
with Guard	1NO-1NC	STOP	Red	Transformer 120V	CR104PBT11R3S2A1	\$90.00
with Guard	1NO-1NC	OFF	Red	Transformer 120V	CR104PBT11R3S2A2	\$90.00

#### Mushroom-Head Non-Illuminated

					LIST FIICE
Head Size	Contact Configuration	Marking	Color	Product Number	GO-10P1
1 3/8" dia.	1NC	EMERGENCY STOP	Red	CR104PBM01R5A	\$63.00

## **Special Function Non-Illuminated**

Special Function Type	Contact Configuration	Marking	Color	Product Number	List Price GO-10P1
Push-Pull	1NC	PUSH TO STOP PULL TO START	Red	CR104PBM01R5CA1	\$63.00
Push-Pull	1NC	EMERGENCY STOP	Red	CR104PBM01R5CA2	\$63.00
Push-Turn-to-Release	1NC	EMERGENCY STOP	Red	CR104PTR20A0R01A	\$63.00

#### **Special Function Illuminated**

Special Function	Contact					List Price
Туре	Configuration	Marking	Color	Voltage	Product Number	GO-10P1
Push-Pull	1NO-1NC	PUSH TO STOP PULL TO START	Red	Transformer 120 V	CR104PBT11R5C2A1	\$102.00
Push-Pull	1NO-1NC	EMERGENCY STOP	Red	Transformer 120 V	CR104PBT11R5C2A2	\$102.00





Standard Non-Illuminated Push Button



Standard Illuminated Push Button with Guard



Mushroom-Head Non-Illuminated
Push Button





Mushroom-Head Non-Illuminated
Push-Pull Push Button



Mushroom-Head Non-Illuminated Push-Turn-to-Release Push Button





Mushroom-Head Illuminated
Push-Pull Push Button

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## Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Kitted Operators

## **CR104P**

Hot Buttons 600 Volts max. AC/DC 10 Amperes Continuous

## **Knob Selector Switches**

				List Price
Position Type	Marking	Contact Configuration	Product Number	GO-10P1
2-Position Maintained	OFF-ON	1NO-1NC	CR104PSG21B91A	\$42.00
3-Position Maintained	HAND-OFF-AUTO	1NO-1NC	CR104PSG34B91A	\$42.00

## **Standard Pilot Lights**

Power Supply Type	Supply Voltage	Lamp Type	Marking	Color	Product Number	List Price GO-10P1
Transformer	120V 50/60 Hz	Incand., 6V, #755	ON	Red	CR104PLG32RA1	\$66.00
Full Voltage	120V 50/60 Hz	Incand., 130V	ON	Red	CR104PLG22RA1	\$54.00
Transformer	120V 50/60 Hz	Incand., 6V, #755	OFF	Red	CR104PLG32RA2	\$66.00
Full Voltage	120V 50/60 Hz	Incand., 130V	OFF	Red	CR104PLG22RA2	\$54.00
Transformer	120V 50/60 Hz	Incand., 6V, #755	OFF	Green	CR104PLG32GA2	\$66.00
Full Voltage	120V 50/60 Hz	Incand., 130V	OFF	Green	CR104PLG22GA2	\$54.00
Transformer	120V 50/60 Hz	Incand., 6V, #755	ON	Green	CR104PLG32GA1	\$66.00
Full Voltage	120V 50/60 Hz	Incand., 130V	ON	Green	CR104PLG22GA1	\$54.00

### **Push to Test Pilot Lights**

		Contact				List Price
Supply Voltage	Lamp Type	Configuration	Marking	Color	Product Number	GO-10P1
120V 50/60 Hz	Incand., 6V, #755	1NO-1NC	ON	Red	CR104PLT32RA	\$84.00
120V 50/60 Hz	Incand., 130V	1NO-1NC	ON	Red	CR104PLT22RA	\$72.00
120V 50/60 Hz	Incand., 6V, #755	1NO-1NC	OFF	Green	CR104PLT32GA	\$84.00
120V 50/60 Hz	Incand., 130V	1NO-1NC	OFF	Green	CR104PLT22GA	\$72.00
	120V 50/60 Hz 120V 50/60 Hz 120V 50/60 Hz	120V 50/60 Hz Incand., 6V, #755 120V 50/60 Hz Incand., 130V 120V 50/60 Hz Incand., 6V, #755	Supply Voltage         Lamp Type         Configuration           120V 50/60 Hz         Incand., 6V, #755         1NO-1NC           120V 50/60 Hz         Incand., 130V         1NO-1NC           120V 50/60 Hz         Incand., 6V, #755         1NO-1NC	Supply Voltage         Lamp Type         Configuration         Marking           120V 50/60 Hz         Incand., 6V, #755         1NO-1NC         ON           120V 50/60 Hz         Incand., 130V         1NO-1NC         ON           120V 50/60 Hz         Incand., 6V, #755         1NO-1NC         OFF	Supply Voltage         Lamp Type         Configuration         Marking         Color           120V 50/60 Hz         Incand., 6V, #755         1NO-1NC         ON         Red           120V 50/60 Hz         Incand., 130V         1NO-1NC         ON         Red           120V 50/60 Hz         Incand., 6V, #755         1NO-1NC         OFF         Green	Supply Voltage         Lamp Type         Configuration         Marking         Color         Product Number           120V 50/60 Hz         Incand., 6V, #755         1NO-1NC         ON         Red         GR104PLT32RA           120V 50/60 Hz         Incand., 130V         1NO-1NC         ON         Red         CR104PLT32RA           120V 50/60 Hz         Incand., 6V, #755         1NO-1NC         OFF         Green         CR104PLT32GA

### **Hot Buttons Display Rack**

This convenient display allows Hot Buttons to be easily selected. The display may be a freestanding counter display or may be hung on the wall. The display (28"W  $\times$  15"H  $\times$  5"D) allows the distributor to showcase Hot Buttons to the customer and makes easy selection of the desired function. The display has a clear front, which allows ready view for stock replenishment. Also included are an attractive poster and a counter literature rack with promotional leaflets.

	List Price
Product Number	GO-10P1
CP10/ADLIPTICDI AV	\$200.00



Section

2-Position Maintained Selector Switch



3-Position Maintained Selector Switch





Standard Pilot Light



Press-to-Test Pilot Light



**Hot Buttons Display Rack** 



**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

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**Control Catalog** 

Enclosures and Stations 600 Volts Max. AC/DC 10 Amperes Continuous

### **Product Number Selection Instructions**

**CR104PE enclosures** are available in painted sheet steel or in stainless steel, with from one to 25 operator openings. Choose the enclosure only or the enclosure assembled with your choice of unwired operators.

**Assembled stations,** as well as unassembled, are available in the following NEMA types:

NEMA 1 (CR104PEX11C)

NEMA 12 and 13 (CR104PEG11C)

NEMA 4, 4X, 12, and 13 (CR104PES11C)

Inclusion of a CR104PTP push button does not allow a NEMA 3, 3R, 4, or 4X rating.

Some common combinations of devices may be ordered by complete part number for NEMA enclosures as listed in the table below.

One-step selection and pricing.

## Assembled with Push Buttons and Fixed Legends NEMA Type 1

					List Price
Units per Station	Nameplate Marking	Color	Other Features <sup>1</sup>	Product Number	GO-10P1
1	START	Green		CR104PEX11C	\$84.00
1	STOP	Red	Extended button	CR104PEX11D	\$84.00
1	EMERGENCY STOP	Red	Red Mushroom-Head	CR104PEX11S	\$102.00
1	JOG	Black		CR104PEX11R	\$84.00
1	HAND-AUTO	Black	2-position selector switch	CR104PEX11T	\$90.00
1	FORWARD-REVERSE	Black	2-position selector switch	CR104PEX11W	\$90.00
1	OFF-ON	Black	2-position selector switch	CR104PEX11B1	\$90.00
1	OPEN-CLOSE	Black	2-position selector switch	CR104PEX11C1	\$90.00
1	HAND-OFF-AUTO	Black	3-position selector switch	CR104PEX11E	\$90.00
2	START-STOP	Green - Red	Extended red stop button	CR104PEX12G	\$122.00
2	FORWARD-REVERSE	Black - Black		CR104PEX12H	\$122.00
2	RAISE-LOWER	Black - Black		CR104PEX12J	\$122.00
2	OPEN-CLOSE	Black - Black		CR104PEX12K	\$122.00
2	START-STOP	Green - Red	Maintained contact button	CR104PEX12D1	\$122.00
3 F	ORWARD-REVERSE-STOP	Black - Black - Red	Extended red stop button	CR104PEX13M	\$170.00
3	RAISE-LOWER-STOP	Black - Black - Red	Extended red stop button	CR104PEX13N	\$170.00
3	OPEN-CLOSE-STOP	Black - Black - Red	Extended red stop button	CR104PEX13P	\$170.00
3	START-STOP	Green - Red	FV 110-125V red light at top;	CR104PEX13E1	\$188.00
			extended red stop button		

## Assembled with Push Buttons and Fixed Legends NEMA Type 12

					List Price
Units per Statio	n Nameplate Marking	Color	Other Features <sup>1</sup>	Product Number	GO-10P1
1	CTADT	Canan		CD104DEC11C	¢06.00
1	START	Green		CR104PEG11C	\$96.00
1	STOP	Red	Extended button	CR104PEG11D	\$96.00
1	EMERGENCY STOP	Red	Red Mushroom-Head	CR104PEG11S	\$114.00
1	JOG	Black		CR104PEG11R	\$96.00
1	HAND-AUTO	Black	2-position selector switch	CR104PEG11T	\$102.00
1	FORWARD-REVERSE	Black	2-position selector switch	CR104PEG11W	\$102.00
1	OFF-ON	Black	2-position selector switch	CR104PEG11B1	\$102.00
1	OPEN-CLOSE	Black	2-position selector switch	CR104PEG11C1	\$102.00
1	HAND-OFF-AUTO	Black	3-position selector switch	CR104PEG11E	\$102.00
2	START-STOP	Green - Red	Extended red stop button	CR104PEG12G	\$138.00
2	FORWARD-REVERSE	Black - Black		CR104PEG12H	\$138.00
2	RAISE-LOWER	Black - Black		CR104PEG12J	\$138.00
2	OPEN-CLOSE	Black - Black		CR104PEG12K	\$138.00
2	START-STOP	Green - Red	Maintained contact button	CR104PEG12D1	\$138.00
3	FORWARD-REVERSE-STOP	Black - Black - Red	Extended red stop button	CR104PEG13M	\$186.00
3	RAISE-LOWER-STOP	Black - Black - Red	Extended red stop button	CR104PEG13N	\$186.00
3	OPEN-CLOSE-STOP	Black - Black - Red	Extended red stop button	CR104PEG13P	\$186.00
3	START-STOP	Green - Red	FV 110-125V red light at top;	CR104PEG13E1	\$204.00
	•		extended red stop button		

 $<sup>^{1}\!\</sup>text{All}$  units include 1NO-1NC contact, each device.



Unit Painted Steel Station



2 Unit Station



Nameplates: See pages 9-40 to 9-41 Technical Data: See pages 9-56 to 9-57 Drilling Plan and Dimensions: See pages 9-57

Enclosures and Stations 600 Volts max. AC/DC 10 Amperes Continuous

To order 104P Push button enclosures, choose the product number in the following tables. Then specify operator by hole number (see page 9-47) as indicated in the corresponding diagram. Add all the operator list prices to the assembled, unwired station to arrive at the total list price, GO-10P1, for your unit.

## **Assembled Unwired-Surface Mounted**

Enclosure Type	Enclosure Material	Enclosure Holes	Product Number	List Price GO-10P1
NEMA Type 1	Sheet Steel	1	CR104PEX11B	\$48.00
NEMA Type 1	Sheet Steel	2	CR104PEX12B	\$56.00
NEMA Type 1	Sheet Steel	3	CR104PEX13B	\$68.00
NEMA Type 1	Sheet Steel	4	CR104PEX14B <sup>1</sup>	\$100.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	1	CR104PEG11B	\$60.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	2	CR104PEG12B	\$72.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	3	CR104PEG13B	\$84.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	4	CR104PEG14B <sup>1</sup>	\$102.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	4	CR104PEG22B	\$102.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	6	CR104PEG23B	\$126.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	9	CR104PEG33B	\$162.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	12	CR104PEG34B	\$204.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	16	CR104PEG44B	\$258.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	20	CR104PEG45B	\$312.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	25	CR104PEG55B	\$372.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	1	CR104PES11B	\$126.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	2	CR104PES12B	\$138.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	3	CR104PES13B	\$186.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	4	CR104PES14B <sup>1</sup>	\$240.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	4	CR104PES22B	\$240.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	6	CR104PES23B	\$348.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	9	CR104PES33B	\$438.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	12	CR104PES34B	\$534.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	16	CR104PES44B	\$702.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	20	CR104PES45B	\$792.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	25	CR104PES55B	\$1032.00

Does not include push buttons: see ordering instructions above.

Price listed for Assembled Unwired Station is for devices.



**Painted Sheet Steel Enclosure** 



Stainless Steel Enclosure

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**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

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<sup>&</sup>lt;sup>1</sup>Four vertical openings.

**Enclosures and Stations** 600 Volts max. AC/DC **10 Amperes Continuous** 

To order 104P Push button enclosures, choose the product number in the following tables. Then specify operator by hole number (see page 9-47) as indicated in the corresponding diagram. Add all the operator list prices to the assembled, unwired station to arrive at the total list price, GO-10P1, for your unit.

## **Enclosure Only-Surface Mounted**

				List Price
Enclosure Type	Enclosure Material	Enclosure Holes	Product Number	GO-10P1
NEMA Type 1	Sheet Steel	1	CR104PEX11	\$30.00
NEMA Type 1	Sheet Steel	2	CR104PEX12	\$32.00
NEMA Type 1	Sheet Steel	3	CR104PEX13	\$38.00
NEMA Type 1	Sheet Steel	4	CR104PEX14 <sup>1</sup>	\$64.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	1	CR104PEG11	\$42.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	2	CR104PEG12	\$48.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	3	CR104PEG13	\$54.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	4	CR104PEG14 <sup>1</sup>	\$66.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	4	CR104PEG22	\$66.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	6	CR104PEG23	\$78.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	9	CR104PEG33	\$96.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	12	CR104PEG34	\$120.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	16	CR104PEG44	\$150.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	20	CR104PEG45	\$180.00
NEMA Type 1, 3, 3R, 12, 13	Painted Sheet Steel	25	CR104PEG55	\$210.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	1	CR104PES11	\$108.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	2	CR104PES12	\$114.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	3	CR104PES13	\$156.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	4	CR104PES14 <sup>1</sup>	\$204.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	4	CR104PES22	\$204.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	6	CR104PES23	\$300.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	9	CR104PES33	\$372.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	12	CR104PES34	\$450.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	16	CR104PES44	\$594.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	20	CR104PES45	\$660.00
NEMA Type 3, 3R, 4, 4X, 12, 13	Stainless Steel	25	CR104PES55	\$840.00

Does not include push buttons: see ordering instructions above.

<sup>1</sup>Four vertical openings.



Section 9

ginted Sheet Steel Enclosure



Stainless Steel Enclosure

Nameplates: See pages 9-40 to 9-41 Technical Data: See pages 9-56 to 9-57
Drilling Plan and Dimensions: See pages 9-57

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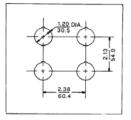
Enclosures

Outlines and Dimensions in. (mm) (For Estimating Only) 600 Volts max. AC/DC 10 Amperes Continuous

#### **Enclosure Dimensions**

Enclosure Holes	Dimension A in. (mm)	Dimension B in. (mm)	Dimension C in. (mm)	Dimension D in. (mm)	Dimension E in. (mm)	Hub Dimension (in)
1	5.50 (139.7)	3.50 (88.9)	4.25 (108.0)	5.00 (127.0)	2.38 (60.4)	0.75
2	7.75 (196.8)	3.50 (88.9)	4.25 (108.0)	7.25 (184.2)	2.38 (60.4)	0.75
3	10.00 (254.0)	3.50 (88.9)	4.25 (108.0)	9.50 (241.3)	2.38 (60.4)	0.75
41	13.38 (339.8)	3.50 (88.9)	4.25 (108.0)	12.88 (327.2)	2.38 (60.4)	1
4	8.25 (209.6)	6.50 (165.1)	4.25 (108.0)	7.75 (196.8)	5.38 (136.6)	1
6	10.50 (266.7)	7.00 (177.8)	4.25 (108.0)	10.00 (254.0)	5.88 (149.4)	1.25
9	10.50 (266.7)	9.25 (235.0)	4.25 (108.0)	10.00 (254.0)	8.19 (208.0)	1.5
12	12.75 (323.8)	9.25 (235.0)	4.25 (108.0)	12.25 (311.2)	8.19 (208.0)	1.5
16	12.75 (323.8)	11.50 (292.1)	4.25 (108.0)	12.25 (311.2)	10.38 (263.6)	1.5
20	15.00 (381.0)	11.50 (292.1)	4.25 (108.0)	14.50 (368.3)	10.38 (263.6)	1.5
25	15.00 (381.0)	13.75 (249.2)	4.25 (108.0)	14.50 (368.3)	12.63 (320.8)	1.5

Bz x 9/32 slot



Enclosure Dimensions and Hole Spacing in Listed Standard Enclosures

11	12	13	14	22	23 33	34	44	45	55
1	1 2	① ② ③	(1) (2) (3) (4)	① ③ ② ④	1 4 7 2 5 8 3 6 9	(1 (5 (9)) (2 (6 (10)) (3 (7 (11)) (4 (8 (12))	1 5 9 3 2 6 00 4 3 7 10 15 4 8 12 16	1 6 11 6 2 7 12 7 3 8 13 8 4 9 14 19 5 10 15 20	1 6 1 6 2 2 7 2 7 2 3 8 3 8 3 4 9 4 9 4 5 10 15 20 25

Product Numbers: Position of Units CR104PEG\_ \_ or S \_ \_ \*



**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

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<sup>&</sup>lt;sup>1</sup>Four vertical openings.

<sup>\*</sup>Add Suffix B for assembled unwired station.

# Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Push Button Stations CR2943, CR2941

Push Button Stations 600 Volts max. AC/DC 10 Amperes Continuous

### **Application**

Standard-duty push button stations are designed for all normal START-STOP and REVERSE operations with ac magnetic starters, NEMA Sizes 00-4. Contact ratings are 10 Amperes carry, 600 Volts maximum, 30 amperes make and three amperes break at 100-125 Volts ac.

#### **Features**

- **—Easy-to-operate buttons—**large concave buttons operate easily, even when gloves are worn.
- -Long-life contact—large silver contacts provide positive closure and assure a good connection.
- —Positive make and break—strong springs behind buttons reduce the chances of contact freezing or accidental closure from machine vibration.
- **—Extra safety**—an insulating strip between the terminals and back of the enclosure helps prevent electrical shorting.

### **Product Number Selection Instructions**

Order push button station by complete Product Number.

- 1. Example: CR2943NJ202A at \$114.00, GO-10P4.
- 2. Example: CR2943NB302—START-STOP Station at **\$51.00**, **GO-10P4**. CR2943XB332A—Wall box for START-STOP Station at **\$21.00**, **GO-10P4**.

#### **Contact Ratings**

	Carry	Make	Break-	-Amperes
	Continuous	Momentary	AC	DC Inductive
Volts	Amperes	Amperes	Circuits	Circuits
110-125	10	30	3.0	1.1
220-250	10	15	1.5	0.55
440-480	10	7.5	.75	
550-600	10	.6	.6	0.2

















Wiring Symbols (As noted in tables)

## **Reference Publications**

Instructions		GEH-1092
Renewal parts		GEF-4064



CR2943 General-Purpose Surface-Mounted Station



CR2943 General-Purpose Flush-Mounted Station



CR2943 Flush-Mounted Station with Wall Box Attached



Wall Box



CR2943 Flush-Mounted Station with Miniature Unit



CR2943, CR2941
Push Button Stations
Surface-Mounted

600 Volts max. AC/DC 10 Amperes Continuous

One-Unit Stations (momentary contact—except selector switches)

Enclosure Type	Function	Nameplate Marking	Color	Wiring Symbol Reference <sup>5</sup>	Position Type	Contact Arrangement	Lockable	Product Number	List Price GO-10P4
NEMA Type 1	Push Button	START	Black	(A)	Туре	Arrangement	LOCKUDIE	CR2943NA101E	\$36.00
NEMA Type 1	Push Button	(As Specified)	Black	(A)	-			CR2943NA101E CR2943AA101B <sup>1</sup>	\$36.00
NEMA Type 1	Push Button	STOP	Red	(B)	-	-	-	CR2943NA101F	\$36.00
NEMA Type 1	Push Button	(As Specified)	Red	(B)	-	-		CR2943AA101A <sup>1</sup>	\$36.00
NEMA Type 1	Push Button	STOP	Red	(B)	-	-	Device Included	CR2943NA101G	\$54.00
NEMA Type 1	Push Button	(As Specified)	Red	(B)	-	-	Device Included	CR2943AA101E <sup>1</sup>	\$54.00
NEMA Type 1	Selector Switch	(As Specified)	Black	(C)	2-Position	SPDT		CR2943AA101S <sup>2</sup>	\$36.00
NEMA Type 1	Selector Switch	(As Specified)	Black	(C)	3-Position	SPDT		CR2943AA101M <sup>3</sup>	\$36.00
NEMA Type 4	Push Button	START	Black	(A)	-	-		CR2943NJ201B	\$114.00
NEMA Type 4	Push Button	(As Specified)	Black	(A)	-	-		CR2943AJ201B	\$114.00
NEMA Type 4	Push Button	STOP	Red	(B)	-		Device Included	CR2943NJ201A <sup>4</sup>	\$114.00
NEMA Type 4	Push Button	(As Specified)	Red	(B)	-		Device Included	CR2943AJ201A <sup>4</sup>	\$114.00
NEMA Type 4X	Push Button	START	Black	(A)	-			CR2943NJ301B	\$114.00
NEMA Type 4X	Push Button	(As Specified)	Black	(A)	-	-	-	CR2943AJ301B <sup>1</sup>	\$114.00
NEMA Type 4X	Push Button	STOP	Red	(B)	-	-	-	CR2943NJ301A	\$114.00
NEMA Type 4X	Push Button	(As Specified)	Red	(B)	-	$\sim$ 7	-	CR2943AJ301A <sup>1</sup>	\$114.00
NEMA Type 4X	Push Button	STOP	Red	(B)	-		Device Included	CR2943NJ301C	\$114.00
NEMA Type 4X	Push Button	(As Specified)	Red	(B)	-		Device Included	CR2943AJ301C <sup>1</sup>	\$114.00
NEMA Type 7	Push Button	START	Black	(A)			-	CR2941NA101B	\$138.00
NEMA Type 9									
NEMA Type 7	Push Button	(As Specified)	Black	(A)	- z	1	-	CR2941AA101T <sup>1</sup>	\$138.00
NEMA Type 9						_			
NEMA Type 7	Push Button	STOP	Red	(B)		-	Device Included	CR2941NA101A <sup>4</sup>	\$138.00
NEMA Type 9									

 $<sup>^{1}\</sup>mathrm{Add}$  \$6.00, GO-10P4 per station for any nameplate markings or arrangements not shown.

## **Two-Unit Stations (momentary contact)**

Enclosure Type	Function	Nameplate Marking	Color	Wiring Symbol Reference <sup>5</sup>	Lockable	Product Number	List Price GO-10P4
NEMA Type 1	Push Button	START-STOP	Black - Red	(D)	Lockable	CR2943NA102A	\$36.00
NEMA Type 1	Push Button	START-STOP	Black - Red	(D)	Bar Included	CR2943NA102A CR2943NA102C	\$54.00
NEMA Type 1	Push Button	(As Specified)	Black - Red	(A), (B)	Bui included	CR2943NA102C CR2943AA102H <sup>1</sup>	\$36.00
NEMA Type 1	Push Button	(As Specified)	Black - Red	(A), (B)	Device Included	CR2943AA102AF <sup>1</sup>	\$54.00
NEMA Type 1	Push Button	RAISE-LOWER	Black - Black	(A), (B)	Device ilicidaed	CR2943NA102AF-	\$45.00
NEMA Type 1	Push Button	FORWARD-REVERSE 4	Black - Black	(A), (A)		CR2943NA102D	\$45.00
NEMA Type 1	Push Button	UP-DOWN	Black - Black	(A), (A)		CR2943NA102E	\$45.00
NEMA Type 1	Push Button	OPEN-CLOSE	Black - Black	(A), (A)		CR2943NA102G	\$45.00
NEMA Type 1	Push Button	(As Specified)	Black - Black	(A), (A)		CR2943NA102G CR2943AA102A <sup>1</sup>	\$45.00
NEMA Type 4	Push Button	START-STOP	Black - Red	(A), (B)	Device Included	CR2943NJ202A <sup>4</sup>	\$114.00
NEMA Type 4	Push Button	(As Specified)	Black - Red	(A), (B)	Device Included  Device Included	CR2943AJ202A <sup>4</sup>	\$114.00
NEMA Type 4	Push Button	RAISE-LOWER	Black - Black	(A), (b)	Device ilicidded	CR2943NJ202F	\$114.00
NEMA Type 4	Push Button	FORWARD-REVERSE	Black - Black	(A), (A)		CR2943NJ202F CR2943NJ202E	\$114.00
NEMA Type 4	Push Button	UP-DOWN	Black - Black	(A), (A)		CR2943NJ202G	\$114.00
NEMA Type 4	Push Button	OPEN-CLOSE	Black - Black	(A), (A)		CR2943NJ202H	\$114.00
NEMA Type 4	Push Button	(As Specified)	Black - Black	(A), (A)		CR2943NJ202H CR2943AJ202B	\$114.00
NEMA Type 4X	Push Button	(As Specified)	Black - Red	(A), (A)	<del>-</del>	CR2943AJ302B <sup>1</sup>	\$114.00
NEMA Type 4X	Push Button	START-STOP	Black - Red	(A), (B)	Device Included	CR2943AJ302B- CR2943NJ302A	\$114.00
NEMA Type 4X	Push Button	(As Specified)	Black - Red	(A), (B)	Device Included  Device Included	CR2943AJ302A <sup>1</sup>	\$114.00
NEMA Type 4X	Push Button	RAISE-LOWER	Black - Rea	(A), (B)	- Device included	CR2943AJ302A- CR2943NJ302F	\$114.00
NEMA Type 4X	Push Button	FORWARD-REVERSE	Black - Black	(A), (A) (A), (A)	-	CR2943NJ302F CR2943NJ302E	\$114.00
	Push Button	UP-DOWN	Black - Black	(A), (A)	-	CR2943NJ302E CR2943NJ302G	\$114.00
NEMA Type 4X NEMA Type 4X	Push Button	OPEN-CLOSE	Black - Black	(A), (A)	-	CR2943NJ302H	\$114.00
	Push Button	(As Specified)	Black - Black	(A), (A)	<u> </u>	CR2943NJ302H CR2943AJ302C <sup>1</sup>	\$114.00
NEMA Type 4X	Push Button	START-STOP	Black - Black	(A), (A) (A), (B)	Device Included	CR2943AJ302C <sup>4</sup> CR2941NA102B <sup>4</sup>	\$114.00 \$138.00
NEMA Type 7 NEMA Type 9	Push Button	START-STOP	Black - Rea	(A), (B)	Device included	CR2941NA102B	\$138.00
NEMA Type 7	Push Button	RAISE-LOWER	Black - Black	(A), (A)		CR2941NA102G	\$138.00
NEMA Type 9	Push Bullon	RAISE-LOVVER	DIUCK - DIUCK	(A), (A)	-	CR2941NA102G	\$136.00
NEMA Type 7	Push Button	FORWARD-REVERSE	Black - Black	(A), (A)		CR2941NA102F	\$138.00
NEMA Type 7	rusii buttoii	TORWARD-REVERSE	DIGCK - DIGCK	(A), (A)		CK294INAIOZI	\$130.00
NEMA Type 7	Push Button	UP-DOWN	Black - Black	(A), (A)	-	CR2941NA102H	\$138.00
NEMA Type 9	Tusii buttori	OI -DOVVIV	DIGCK * DIGCK	(O), (A)	-	CUEDATIVATORII	Ψ136.00
NEMA Type 7	Push Button	OPEN-CLOSE	Black - Black	(A), (A)		CR2941NA102J	\$138.00
NEMA Type 9	i dan batton	OI LIN-CLOSE	DIGCK - DIGCK	וחו, וחו		CIVEDATINUTOED	Ψ130.00
NEMA Type 7 NEMA Type 9	Push Button	(As Specified)	Black - Black	(A), (A)	-	CR2941AA102B <sup>1</sup>	\$138.00

Add \$6.00, GO-10P4 per station for any nameplate markings or arrangements not shown.

<sup>&</sup>lt;sup>5</sup>See page 9-48 for Wiring Symbols. If two references, first is for left button color; second is for second button color, shown on right.



**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

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<sup>&</sup>lt;sup>2</sup>Five N.P.'s included: OFF-ON, FORWARD-REVERSE, HAND-AUTO, SLOW-FAST and OPEN-CLOSE.

<sup>&</sup>lt;sup>3</sup>Three N.P.'s included: HAND-OFF-AUTO, FORWARD-OFF-REVERSE and OPEN-OFF-CLOSE.

<sup>&</sup>lt;sup>4</sup>Includes hole for padlock on STOP.

<sup>&</sup>lt;sup>5</sup>See page 9-48 for Wiring Symbols.

 $<sup>^4</sup>$ Includes hole for padlock on STOP.

# Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Push Button Stations CR2943, CR2941

Push Button Stations Surface-Mounted 600 Volts max. AC/DC 10 Amperes Continuous

## **Two-Unit Stations (maintained contact)**

							List Price
Enclosure Type	Function	Nameplate Marking	Color	Wiring Symbol Reference <sup>2</sup>	Lockable	Product Number	GO-10P4
NEMA Type 1	Push Button	START-STOP	Black - Red	(H)	-	CR2943NA102W	\$54.00
NEMA Type 1	Push Button	ON-OFF	Black - Black	(H)	-	CR2943NA102X	\$54.00

<sup>&</sup>lt;sup>2</sup>See page 9-48 for Wiring Symbols.

### **Three-Unit Stations (momentary contact)**

Enclosure Type	Function	Nameplate Marking	Color	Wiring Symbol Reference <sup>2</sup>	Lockable	Voltage	Product Number	List Price GO-10P4
NEMA Type 1	Push Button	UP-DOWN-STOP	Black - Black - Red	(E), (E), (B)	-		CR2943NA103F	\$72.00
NEMA Type 1	Push Button	RAISE-LOWER-STOP	Black - Black - Red	(E), (E), (B)	-	4 -	CR2943NA103G	\$72.00
NEMA Type 1	Push Button	FAST-SLOW-STOP	Black - Black - Red	(E), (E), (B)	-		CR2943NA103H	\$72.00
NEMA Type 1	Push Button	FORWARD-REVERSE-STOP	Black - Black - Red	(E), (E), (B)	- /	-	CR2943NA103J	\$72.00
NEMA Type 1	Push Button	OPEN-CLOSE-STOP	Black - Black - Red	(E), (E), (B)			CR2943NA103K	\$72.00
NEMA Type 1	Push Button	START-JOG-STOP	Black - Black - Red	(E), (E), (B)		7 ( ) :	CR2943NA103L	\$72.00
NEMA Type 1	Push Button	(As Specified)	Black - Black - Red	(E), (E), (B)		-	CR2943AA103AA <sup>1</sup>	\$72.00
NEMA Type 1	Push Button	(As Specified)	Black - Black - Red	(E), (E), (B)	Bar Included	-	CR2943AA103C <sup>1</sup>	\$90.00
NEMA Type 1	Pilot Light	START-STOP	Red - Black	(B), (F), (A)	-	115/230V	CR2943NA103V	\$132.00

 $<sup>^1\!</sup>$ Add \$6.00, GO-10P4 per station for any nameplate markings or arrangements not shown.

### **Three-Unit Stations (maintained contact)**

							List Price
Enclosure type	Function <sup>2</sup>	Nameplate Marking	Color	Wiring Symbol Reference <sup>2</sup>	Voltage	Product Number	GO-10P4
NEMA Type 1	Pilot Liaht (F)	START-STOP	Black - Red	(H)	115/230V	CR2943NA103Y	\$150.00

<sup>&</sup>lt;sup>2</sup>See page 9-48 for Wiring Symbols.

**Product Number Selection Instructions:** See pages 9-48

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<sup>&</sup>lt;sup>2</sup>See page 9-48 for Wiring Symbols. If three references are shown, first reference is for first button color (left), second for center button color, and third for right button color.

## Pilot and Signaling Devices See Heavy-Duty 30.5 mm Watertight/Oiltight Push Button Stations

## CR2943

Push Button Stations Flush-Mounted NEMA Type 1 600 Volts max. AC/DC 10 Amperes Continuous

### **Wall Boxes**

Separate wall boxes are available for use with flush-mounted stations listed below as "less wall box." They can be installed during wall construction.

Units per Station	Product Number	GO-10P4	
1, 2	CR2943XB332A	\$21.00	
3	CR2943XB333A	\$21.00	

### One-Unit Stations (momentary contact—except selector switches)

Flush Plate Form	With Wall Box	Function	Nameplate Marking	Color	Wiring Symbol Reference <sup>2</sup>	Position Type	Contact Arrangement	Lockable	Product Number	List Price GO-10P4
Gray	No	Push Button	START	Black	(A)	<b>-</b> - (		-	CR2943NB301A	\$45.00
Gray	No	Push Button	(As Specified)	Black	(A)	113		-	CR2943AB301A <sup>1</sup>	\$45.00
Gray	No	Push Button	STOP	Red	(B)	1-7	, -	-	CR2943NB301B	\$45.00
Gray	No	Push Button	(As Specified)	Red	(B)		-	-	CR2943AB301B <sup>1</sup>	\$45.00
Gray	No	Push Button	STOP	Red	(B)		-	Bar Included	CR2943NB301C	\$63.00
Gray	No	Push Button	(As Specified)	Red	(B)	-	-	Bar Included	CR2943AB301C <sup>1</sup>	\$63.00
Gray	No	Selector Switch	STOP-START	-	(S)	2-Position	SPDT	-	CR2943NB301D	\$45.00
Gray	No	Selector Switch	OFF-ON	-	(C)	2-Position	SPDT	-	CR2943NB301E	\$45.00
Gray	No	Selector Switch	(As Specified)	-	(C)	2-Position	SPDT	-	CR2943AB301D <sup>1</sup>	\$45.00
Gray	No	Selector Switch	HAND-OFF-AUTO	-	(C)	3-Position	SPDT	-	CR2943NB301F	\$45.00
Gray	No	Selector Switch	(As Specified)	-	(C)	3-Position	SPDT	-	CR2943AB301E <sup>1</sup>	\$45.00
Gray	Yes	Push Button	START	Black	(A)	-		-	CR2943NB331A	\$66.00
Gray	Yes	Push Button	(As Specified)	Black	(A)	-		-	CR2943AB331A <sup>1</sup>	\$66.00
Gray	Yes	Push Button	STOP	Red	(B)	-		-	CR2943NB331B	\$66.00
Gray	Yes	Push Button	(As Specified)	Red	(B)	-		-	CR2943AB331B <sup>1</sup>	\$66.00
Gray	Yes	Push Button	STOP	Red	(B)	-		Bar Included	CR2943NB331C	\$84.00
Gray	Yes	Push Button	(As Specified)	Red	(B)	-		Bar Included	CR2943AB331C <sup>1</sup>	\$84.00
Gray	Yes	Selector Switch	STOP-START	- 7	(C)	2-Position	SPDT	-	CR2943NB331D	\$66.00
Gray	Yes	Selector Switch	OFF-ON		(C)	2-Position	SPDT	-	CR2943NB331E	\$66.00
Gray	Yes	Selector Switch	(As Specified)	-	(C)	2-Position	SPDT	-	CR2943AB331D <sup>1</sup>	\$66.00
Gray	Yes	Selector Switch	HAND-OFF-AUTO	F -	(C)	3-Position	SPDT	-	CR2943NB331F	\$66.00
Gray	Yes	Selector Switch	(As Specified)	-	(C)	3-Position	SPDT	-	CR2943AB331E <sup>1</sup>	\$66.00
Stainless-Steel	No	Push Button	\$TART	Black	(A)	-	-	-	CR2943NB301G	\$48.00
Stainless-Steel	No	Push Button	(As Specified)	Black	(A)	-	-	-	CR2943AB301G <sup>1</sup>	\$48.00
Stainless-Steel	No	Push Button	STOP	Red	(B)	-	-	-	CR2943NB301H	\$48.00
Stainless-Steel	No	Push Button	(As Specified)	Red	(B)	-	-	-	CR2943AB301H <sup>1</sup>	\$48.00
Stainless-Steel	No	Push Button	STOP	Red	(B)	-	-	Bar Included	CR2943NB301J	\$66.00
Stainless-Steel	No	Push Button	(As Specified)	Red	(B)	-	-	Bar Included	CR2943AB301J <sup>1</sup>	\$66.00
Stainless-Steel	No	Selector Switch	STOP-START	-	(C)	2-Position	SPDT	-	CR2943NB301K	\$48.00
Stainless-Steel	No	Selector Switch	OFF-ON	-	(C)	2-Position	SPDT	-	CR2943NB301L	\$48.00
Stainless-Steel	No	Selector Switch	(As Specified)	-	(C)	2-Position	SPDT	-	CR2943AB301K <sup>1</sup>	\$48.00
Stainless-Steel	No	Selector Switch	HAND-OFF-AUTO	-	(C)	3-Position	SPDT	-	CR2943NB301M	\$48.00
Stainless-Steel	No	Selector Switch	(As Specified)	-	(C)	3-Position	SPDT	-	CR2943AB301L <sup>1</sup>	\$48.00
Stainless-Steel	Yes	Push Button	START	Black	(A)	-	-	-	CR2943NB331G	\$69.00
Stainless-Steel	Yes	Push Button	(As Specified)	Black	(A)	-	-	-	CR2943AB331F <sup>1</sup>	\$69.00
Stainless-Steel	Yes	Push Button	STOP	Red	(B)	-	-	-	CR2943NB331H	\$69.00
Stainless-Steel	Yes	Push Button	(As Specified)	Red	(B)	-	-	-	CR2943AB331G <sup>1</sup>	\$69.00
Stainless-Steel	Yes	Push Button	STOP	Red	(B)	-	-	Bar Included	CR2943NB331J	\$87.00
Stainless-Steel	Yes	Push Button	(As Specified)	Red	(B)	-	-	Bar Included	CR2943AB331J <sup>1</sup>	\$87.00
Stainless-Steel	Yes	Selector Switch	STOP-START	-	(C)	2-Position	SPDT	-	CR2943NB331K	\$69.00
Stainless-Steel	Yes	Selector Switch	OFF-ON	-	(C)	2-Position	SPDT	-	CR2943NB331L	\$69.00
Stainless-Steel	Yes	Selector Switch	(As Specified)	-	(C)	2-Position	SPDT	-	CR2943AB331K <sup>1</sup>	\$69.00
Stainless-Steel	Yes	Selector Switch	HAND-OFF-AUTO	-	(C)	3-Position	SPDT	-	CR2943NB331M	\$69.00
Stainless-Steel	Yes	Selector Switch	(As Specified)	-	(C)	3-Position	SPDT	-	CR2943AB331H <sup>1</sup>	\$69.00

 $^1$ Add **\$9.00, GO-10P4** per station for any nameplate markings or arrangements not shown.



**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

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<sup>&</sup>lt;sup>2</sup>See page 9-48 for Wiring Symbols.

**Push Button Stations** Flush-Mounted NEMA Type 1 600 Volts max. AC/DC **10 Amperes Continuous** 

**Two-Unit Stations (momentary contact)** 

Flush Plate Form	With Wall Box	Function	Nameplate Marking	Color	Wiring Symbol Reference <sup>2</sup>	Lockable	Product Number	List Price GO-10P4
Gray	No	Push Button	START-STOP	Black - Red	(D)	-	CR2943NB302A	\$45.00
Gray	No	Push Button	(As Specified)	Black - Red	(D)	-	CR2943AB302A <sup>1</sup>	\$45.00
Gray	No	Push Button	START-STOP	Black - Red	(D)	Bar Included	CR2943NB302B	\$63.00
Gray	No	Push Button	(As Specified)	Black - Red	(D)	Bar Included	CR2943AB302B <sup>1</sup>	\$63.00
Gray	No	Push Button	RAISE-LOWER	Black - Black	(A), (A)	- •	CR2943NB302D	\$54.00
Gray	No	Push Button	FORWARD-REVERSE	Black - Black	(A), (A)	-	CR2943NB302C	\$54.00
Gray	No	Push Button	UP-DOWN	Black - Black	(A), (A)	-	CR2943NB302E	\$54.00
Gray	No	Push Button	OPEN-CLOSE	Black - Black	(A), (A)	-	CR2943NB302F	\$54.00
Gray	No	Push Button	(As Specified)	Black - Black	(A), (A)		CR2943AB302C <sup>1</sup>	\$54.00
Gray	Yes	Push Button	START-STOP	Black - Red	(D)		CR2943NB332A	\$66.00
Gray	Yes	Push Button	(As Specified)	Black - Red	(D)		CR2943AB332A <sup>1</sup>	\$66.00
Gray	Yes	Push Button	START-STOP	Black - Red	(D)	Bar Included	CR2943NB332B	\$84.00
Gray	Yes	Push Button	(As Specified)	Black - Red	(D)	Bar Included	CR2943AB332B <sup>1</sup>	\$84.00
Gray	Yes	Push Button	RAISE-LOWER	Black - Black	(A), (A)	<b>7.</b> F	CR2943NB332D	\$75.00
Gray	Yes	Push Button	FORWARD-REVERSE	Black - Black	(A), (A)		CR2943NB332C	\$75.00
Gray	Yes	Push Button	UP-DOWN	Black - Black	(A), (A)	_	CR2943NB332E	\$75.00
Gray	Yes	Push Button	OPEN-CLOSE	Black - Black	(A), (A)	-	CR2943NB332F	\$75.00
Gray	Yes	Push Button	(As Specified)	Black - Black	(A), (A)	-	CR2943AB332C <sup>1</sup>	\$75.00
Stainless-Steel	No	Push Button	START-STOP	Black - Red	(D)	-	CR2943NB302G	\$51.00
Stainless-Steel	No	Push Button	(As Specified)	Black - Red	(D)	-	CR2943AB302E <sup>1</sup>	\$51.00
Stainless-Steel	No	Push Button	START-STOP	Black - Red	(D)	Bar Included	CR2943NB302H	\$69.00
Stainless-Steel	No	Push Button	(As Specified)	Black - Red	(D)	Bar Included	CR2943AB302H <sup>1</sup>	\$69.00
Stainless-Steel	No	Push Button	RAISE-LOWER	Black - Black	(A), (A)	-	CR2943NB302K	\$60.00
Stainless-Steel	No	Push Button	FORWARD-REVERSE	Black - Black	(A), (A)	-	CR2943NB302J	\$60.00
Stainless-Steel	No	Push Button	UP-DOWN	Black - Black	(A), (A)	-	CR2943NB302L	\$60.00
Stainless-Steel	No	Push Button	OPEN-CLOSE	Black - Black	(A), (A)	-	CR2943NB302M	\$60.00
Stainless-Steel	No	Push Button	(As Specified)	Black - Black	(A), (A)	-	CR2943AB302D <sup>1</sup>	\$60.00
Stainless-Steel	Yes	Push Button	START-STOP	Black - Red	(D)	-	CR2943NB332G	\$72.00
Stainless-Steel	Yes	Push Button	(As Specified)	Black - Red	(D)	-	CR2943AB332G <sup>1</sup>	\$72.00
Stainless-Steel	Yes	Push Button	START-STOP	Black - Red	(D)	Bar Included	CR2943NB332H	\$90.00
Stainless-Steel	Yes	Push Button	(As Specified)	Black - Red	(D)	Bar Included	CR2943AB332H <sup>1</sup>	\$90.00
Stainless-Steel	Yes	Push Button	RAISE-LOWER	Black - Black	(A), (A)	-	CR2943NB332K	\$81.00
Stainless-Steel	Yes	Push Button	FORWARD-REVERSE	Black - Black	(A), (A)	-	CR2943NB332J	\$81.00
Stainless-Steel	Yes	Push Button	UP-DOWN	Black - Black	(A), (A)	-	CR2943NB332L	\$81.00
Stainless-Steel	Yes	Push Button	OPEN-CLOSE	Black - Black	(A), (A)	-	CR2943NB332M	\$81.00
Stainless-Steel	Yes	Push Button	(As Specified)	Black - Black	(A), (A)	-	CR2943AB332D1	\$81.00

## Two-Unit Stations (maintained contact)

							List Price
Flush Plate Form	With Wall Box	Function	Nameplate Marking	Color	Wiring Symbol Reference <sup>2</sup>	Product Number	GO-10P4
Gray	No	Push Button	START-STOP	Black - Red	(H)	CR2943NB302Q	\$63.00
Gray	No	Push Button	(As Specified)	Black - Red	(H)	CR2943AB302M <sup>1</sup>	\$63.00
Gray	No	Push Button	ON-OFF	Black - Black	(H)	CR2943NB302R	\$63.00
Gray	Yes	Push Button	START-STOP	Black - Red	(H)	CR2943NB332T	\$84.00
Gray	Yes	Push Button	(As Specified)	Black - Red	(H)	CR2943AB332E <sup>1</sup>	\$84.00
Gray	Yes	Push Button	ON-OFF	Black - Black	(H)	CR2943NB332R	\$84.00
Stainless-Steel	No	Push Button	START-STOP	Black - Red	(H)	CR2943NB302N	\$69.00
Stainless-Steel	No	Push Button	(As Specified)	Black - Red	(H)	CR2943AB302K <sup>1</sup>	\$69.00
Stainless-Steel	No	Push Button	ON-OFF	Black - Black	(H)	CR2943NB302P	\$69.00
Stainless-Steel	Yes	Push Button	START-STOP	Black - Red	(H)	CR2943NB332S	\$90.00
Stainless-Steel	Yes	Push Button	(As Specified)	Black - Red	(H)	CR2943AB332K <sup>1</sup>	\$90.00
Stainless-Steel	Yes	Push Button	ON-OFF	Black - Black	(H)	CR2943NB332V	\$90.00

 $<sup>^{1}</sup>$ Add \$9.00, GO-10P4 per station for any nameplate markings or arrangements not shown.



<sup>&</sup>lt;sup>1</sup>Add **\$9.00, GO-10P4** per station for any nameplate markings or arrangements not shown.

<sup>2</sup>See page 9-48 for Wiring Symbols. If two references are shown, first reference is left button color; second is right button color.

<sup>&</sup>lt;sup>2</sup>See page 9-48 for Wiring Symbols.

## CR2943

Push Button Stations Flush-Mounted NEMA Type 1 600 Volts max. AC/DC 10 Amperes Continuous

#### **Three-Unit Stations (momentary contact)**

Flush Plate Form	With Wall Box	Function	Nameplate Marking	Color	Wiring Symbol Reference <sup>2</sup>	Voltage	Product Number	List Price GO-10P4
Gray	No	Push Button	UP-DOWN-STOP	Black - Black - Red	(E), (E), (B)		CR2943NB303D	\$81.00
Gray	No	Push Button	RAISE-LOWER-STOP	Black - Black - Red	(E), (E), (B)		CR2943NB303F	\$81.00
Gray	No	Push Button	FAST-SLOW-STOP	Black - Black - Red	(E), (E), (B)		CR2943NB303E	\$81.00
Gray	No	Push Button	FORWARD-REVERSE-STOP	Black - Black - Red	(E), (E), (B)		CR2943NB303B	\$81.00
Gray	No	Push Button	OPEN-CLOSE-STOP	Black - Black - Red	(E), (E), (B)		CR2943NB303C	\$81.00
Gray	No	Push Button	(As Specified)	Black - Black - Red	(E), (E), (B)		CR2943AB303B <sup>1</sup>	\$81.00
Gray	No	Pilot Light (F)	START-STOP	Black - Red	(A), (B)	115/230V	CR2943NB303A	\$132.00
Gray	No	Pilot Light (F)	(As Specified)	Black - Red	(A), (B)	115/230V	CR2943AB303A <sup>1</sup>	\$132.00
Gray	Yes	Push Button	UP-DOWN-STOP	Black - Black - Red	(E), (E), (B)		CR2943NB333D	\$102.00
Gray	Yes	Push Button	RAISE-LOWER-STOP	Black - Black - Red	(E), (E), (B)	·	CR2943NB333F	\$102.00
Gray	Yes	Push Button	FAST-SLOW-STOP	Black - Black - Red	(E), (E), (B)		CR2943NB333E	\$102.00
Gray	Yes	Push Button	FORWARD-REVERSE-STOP	Black - Black - Red	(E), (E), (B)		CR2943NB333B	\$102.00
Gray	Yes	Push Button	OPEN-CLOSE-STOP	Black - Black - Red	(E), (E), (B)		CR2943NB333C	\$102.00
Gray	Yes	Push Button	(As Specified)	Black - Black - Red	(E), (E), (B)		CR2943AB333B <sup>1</sup>	\$102.00
Gray	Yes	Pilot Light (F)	START-STOP	Black - Red	(A), (B)	115/230V	CR2943NB333A	\$153.00
Gray	Yes	Pilot Light (F)	(As Specified)	Black - Red	(A), (B)	115/230V	CR2943AB333A <sup>1</sup>	\$153.00
Stainless-Steel	No	Push Button	UP-DOWN-STOP	Black - Black - Red	(E), (E), (B)		CR2943NB303K	\$90.00
Stainless-Steel	No	Push Button	RAISE-LOWER-STOP	Black - Black - Red	(E), (E), (B)		CR2943NB303M	\$90.00
Stainless-Steel	No	Push Button	FAST-SLOW-STOP	Black - Black - Red	(E), (E), (B)		CR2943NB303L	\$90.00
Stainless-Steel	No	Push Button	FORWARD-REVERSE-STOP	Black - Black - Red	(E), (E), (B)		CR2943NB303H	\$90.00
Stainless-Steel	No	Push Button	OPEN-CLOSE-STOP	Black - Black - Red	(E), (E), (B)		CR2943NB303J	\$90.00
Stainless-Steel	No	Push Button	(As Specified)	Black - Black - Red	(E), (E), (B)		CR2943AB303C <sup>1</sup>	\$90.00
Stainless-Steel	No	Pilot Light (F)	START-STOP	Black - Red	(A), (B)	115/230V	CR2943NB303G	\$141.00
Stainless-Steel	No	Pilot Light (F)	(As Specified)	Black - Red	(A), (B)	115/230V	CR2943AB303D <sup>1</sup>	\$141.00
Stainless-Steel	Yes	Push Button	UP-DOWN-STOP	Black - Black - Red	(E), (E), (B)		CR2943NB333K	\$111.00
Stainless-Steel	Yes	Push Button	RAISE-LOWER-STOP	Black - Black - Red	(E), (E), (B)		CR2943NB333M	\$111.00
Stainless-Steel	Yes	Push Button	FAST-SLOW-STOP	Black - Black - Red	(E), (E), (B)		CR2943NB333L	\$111.00
Stainless-Steel	Yes	Push Button	FORWARD-REVERSE-STOP	Black - Black - Red	(E), (E), (B)		CR2943NB333H	\$111.00
Stainless-Steel	Yes	Push Button	OPEN-CLOSE-STOP	Black - Black - Red	(E), (E), (B)		CR2943NB333J	\$111.00
Stainless-Steel	Yes	Push Button	(As Specified)	Black - Black - Red	(E), (E), (B)		CR2943AB333C <sup>1</sup>	\$111.00
Stainless-Steel	Yes	Pilot Light (F)	START-STOP	Black - Red	(A), (B)	115/230V	CR2943NB333G	\$162.00
Stainless-Steel	Yes	Pilot Light (F)	(As Specified)	Black - Red	(A), (B)	115/230V	CR2943AB333D <sup>1</sup>	\$162.00

 $<sup>^1\</sup>mathrm{Add}$  \$9.00, GO-10P4 per station for any nameplate markings or arrangements not shown.

## Three-Unit Stations (maintained contact)

								List Price
Flush Plate Form	With Wall Box	Function	Nameplate Marking	Color	Wiring Symbol Reference <sup>2</sup>	Voltage	Product Number	GO-10P4
Gray	No	Pilot Light (F)	START-STOP	Black - Red	(H)	115/230V	CR2943NB303P	\$150.00
Gray	Yes	Pilot Light (F)	START-STOP	Black - Red	(H)	115/230V	CR2943NB333V	\$171.00
Stainless-Steel	No	Pilot Light (F)	START-STOP	Black - Red	(H)	115/230V	CR2943NB303N	\$159.00
Stainless-Steel	Yes	Pilot Light (F)	START-STOP	Black - Red	(H)	115/230V	CR2943NB333R	\$180.00

<sup>&</sup>lt;sup>2</sup>See page 9-48 for Wiring Symbols.

## Stations with Miniature Units

With Wall		Nameplate		Wiring Symbol	Position	Contact		Product	List Price
Box	Function	Marking	Color	Reference <sup>2</sup>	Type	Arrangement	Voltage	Number	GO-10P4
Yes	Pilot Light (F)	START-STOP	Black - Red	(D)	-	-	115/230V	CR2943NB203A	\$114.00
Yes	Toggle Switch	ON-OFF	-	(G)	2-Position	SPST	-	CR2943NB201A	\$48.00
Yes	Toggle Switch with	ON-OFF	-	(G)	2-Position	SPST	115/230V	CR2943NB202B	\$114.00
	Pilot Light (F)								

<sup>&</sup>lt;sup>2</sup>See page 9-48 for Wiring Symbols.



**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

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<sup>&</sup>lt;sup>2</sup>See page 9-48 for Wiring Symbols. If three references are shown, first reference is for first button color (left), second for center button color, and third for right button color.

# Pilot and Signaling Devices Heavy-Duty 30.5 mm Watertight/Oiltight Push Button Stations CR2943, CR2941

Push Button Stations Dimensions in. (mm) and Weights (For Estimating Only) 600 Volts max. AC/DC 10 Amperes Continuous

Surface-Mounted NEMA Type 1

Push Button Station Device Model	Approx. Height (in/mm)	Approx. Width (in/mm)	Approx. Depth (in/mm)	Conduit Size Each End (in.)	Approximate Shipping Weight (lbs)
One-Unit Stations	4.56 (115.8)	2.66 (67.6)	2.88 (73.2)	1/2-3/4 KO's	1
Two-Unit Stations	4.56 (115.8)	2.66 (67.6)	2.88 (73.2)	1/2-3/4 KO's	1
Three-Unit Stations	7.38 (187.4)	2.66 (67.6)	2.63 (66.8)	3/4-1 KO's	2 1/2

Flush-Mounted NEMA Type 1

Push Button Station Device Model	Approx. Height (in/mm)	Approx. Width (in/mm)	Approx. Depth (in/mm)	Conduit Size Each End (in.)	Approximate Shipping Weight (lbs)
One-Unit Stations	5.62 (142.7)	3.13 (79.5)	3.25 (82.6)	1/2-3/4 KO's	1 1/2
Two-Unit Stations	5.62 (142.7)	3.13 (79.5)	3.25 (82.6)	1/2-3/4 KO's	1 1/2
Three-Unit Stations	8.62 (218.9)	3.38 (85.8)	3.25 (82.6)	3/4-1 KO's	3

**NEMA Type 4** 

Push Button Station Device Model	Approx. Height (in/mm)	Approx. Width (in/mm)	Approx. Depth (in/mm)	Conduit Size A (in.)	pproximate Shipping Weight (lbs)
One-Unit Stations	5.75 (146.0)	2.69 (68.3)	3.28 (83.3)	Pipe Tap Bottom; 1/2	2
Two-Unit Stations	5.75 (146.0)	2.69 (68.3)	3.28 (83.3)	Pipe Tap Bottom; 1/2	2

**NEMA Type 4X** 

Push Button Station Device Model	Approx. Height (in/mm)	Approx. Width (in/mm)	Approx. Depth (in/mm)	Conduit Size Approximate Shipping (in.) Weight (lbs)
One-Unit Stations	6.13 (155.7)	3.25 (82.6)	3.00 (76.2)	Pipe Tap Bottom; 3/4 2
Two-Unit Stations	6.13 (155.7)	3.25 (82.6)	3.00 (76.2)	Pipe Tap Bottom; 3/4 2

NEMA Type 7 NEMA Type 9

Push Button Station Device Model	Approx. Height (in/mm)	Approx. Width (in/mm)	Approx. Depth (in/mm)	Conduit Size Each End (in.)	Approximate Shipping Weight (lbs)
One-Unit Stations	6.62 (168.1)	4.75 (120.6)	4.75 (120.6)	Pipe Tap Top and Bottom; 3/4	6
Two-Unit Stations	6.62 (168.1)	4.75 (120.6)	4.75 (120.6)	Pipe Tap Top and Bottom; 3/4	6



CR2943 Water and Dust-Tight Station,
NEMA Type 4



CR2943 Corrosion-Resistant Station, NEMA Type 4X



CR2941 Hazardous-Location Station, NEMA Type 7



CR2943 Flush-Mounted Forms Less Wall Box

Product Number Selection Instructions: See pages 9-48

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## **Pilot and Signaling Devices**

## Heavy-Duty 30.5 mm Watertight/Oiltight Push Button Stations

## **PA Palm Switches**

Palm Switches should be ordered from:

**GE Parts SuperCenter** 1 (800) PART-4GE 1400 Horizon Way 1 (800) 727-8443 Mt. Laurel, NJ 08054 Fax: 1 (800) FAX-TO-GE

1 (800) 329-8643

Rugged, industrial manual switches for machine control. Features include:

- -Large 2.25" (57.2 mm) diameter button;
- -Momentary contact
- -Mounts on standard "FD" and "FS" enclosure\*
- -60 ampere inrush
- -Four button colors
- -Oiltight sealed
- -Two-circuit double-break circuitry







4PH

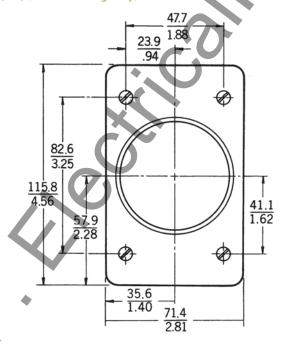
Description	Product Listing
Black Button	2PH1
Red Button	2PH2
Green Button	2PH3
Yellow Button	2PH4
Guard	3PH1
Black Button and Guard	4PH1
Green Button and Guard	4PH3
Black Button, One Circuit, 1 NO, Double Break	8PH1

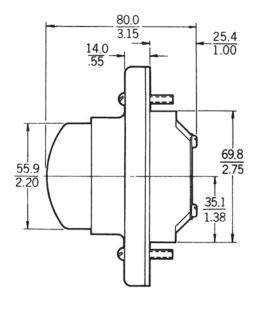
## **Order Guide**

Circuitry	Electrical Data
One- or Two-Circuit Double-Break 1 NC-1 NO	Pilot Duty Rating: 6 amps normal and 60 amps inrush, 125 Vac; 3 amps normal and 30 amps inrush, 250 Vac; 1.5 amps normal and 15 amps inrush, 480 Vac; 1.2 amps normal and 12 amps inrush, 600 Vac.

NC and NO contacts should be connected to the same polarity.

## Dimensions $(\frac{mm}{in.})$ (For Estimating Only)





Red Button, One Circuit, 1 NC, Double Break

nsions shown are for reference only.

Publications and Reference: See Section 17 for a complete list of additional product-related publications

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<sup>\*</sup>Not available from MICRO SWITCH.

Technical Data 600 Volts Max. AC/DC 10 Amperes Continuous

**General Specifications** 

Standards and Approvals	UL Listed—File Number E2403					
	C-UL-CSA Cert. LR—15492					
	NEMA—ICS2—1988, IEC 947.5.					
Enclosure Ratings	All units are suitable for use in					
	NEMA Type 1, 3, 3R, 4, 4X, 12, and	13 applications				
	when mounted in enclosure	s rated for				
	those same applications. F	or some				
	NEMA 4X applications, protective of	caps will provide				
	improved corrosion resis	tance.				
Finger Protection	IP2X according to IEC 529	Terminal				
at Terminals	identification per CENELEC	EN 50013				
Operating temperature	-25° to +70°C, -13° to +	158°F				
range						
Storage Temperature	-40° to +70°C, -40° to +	158°F				
Range						
Climate Specs						
Climate Type	Temperature	Relative Humidity				
Temperate	74°F (23°C)	50%				
Wet	74°F (23°C)	83%				
Hot Wet	104°F (40°C)	92%				
Variable Wet	74° to 104°F (23° to 40°C)	83%-92%				
Resistance to Shock	50g, 11ms					
Frequency Range	1-100 Hz					
Vibration Amplitude	1-13.2 Hz—displacement ±1mm,					
·	13.2-100 Hz—acceleration ±0.7q					
Operating Force Without	1.625 lb./f.					
Contact Blocks - Recessed						
Operating Force Without	2.5 lb./f.					
Contact Blocks Flush						
Operating Force With 1 NO	2.5 lb./f.					
Contact Block - Recessed						
Operating Force With 1 NO	2.875 lb./f.					
Contact Block - Flush						
Operating Force With 2 NO	3.5 lb./f.					
Contact Blocks - Recessed						
Operating Force With 2 NO	3.5 lb./f.					
Contact Blocks Flush						
Operating Force With 3 NO	4.0 lb./f.					
Contact Blocks - Recessed						
Operating Force With 3 NO	4.375 lb./f.					
Contact Blocks Flush		o U				
Wire Size	22-12 AWG stranded or solid	copper wire				
Torque Requirements	Terminal screws: 10-14					
	Contact block mounting screws					
	2 2 11 table blook moantally belowe	Contact block mounting sciews. 10-14 m./m.				



Contacts	
Electrical Reliability Data	With indicating light loads, tested for 5,000,000 operations at 40mA and 1.15 V resistive loads with no failures observed.
Thermal Current	10A per IEC 947 5-1
Insulation Voltage	Ui = 660 Vac/dc
Protection from	Class 1 per IEC 536 for metal operators;
Electrical Shock	Class II (double insulation) per IEC 536
	for plastic operators
Insulation Category	Group C.per VDE 0110
Dielectric strength	2500 V
Short-circuit protection	10A time-delay fuse gG per IEC 269.1 & 269.3
Finger Safe Terminals	Available for silver and gold single-
	and double-circuit contact blocks, as
	components and as assembled versions.
Contact Characteristics	
	NC: slow make, double break (positive opening)
	NO: slow make, double break
	Opposite polarity
	Self-cleaning below 300 volts
	NO and NC spap action (for use on joysticks)

## Pilot Duty Ratings for Standard Contact Blocks

				A6	00				
		(max	imum r	nake vo	olt-amp	eres =	7200;		
	m	aximu	m breal	k volt-a	mperes	s = 720;	PF = .2	5)	
Volts (V)	12	24	48	60	120	240	480	600	
Continuous (A)	10	10	10	10	10	10	10	10	
Making (A)	60	60	60	60	60	30	15	12	
Breaking (A)	10	10	10	10	6	3	1.5	1.2	

				P300					
	(maximum make or break volt-amperes = 69)								
Volts (V)	12	24	48	60	125	250	300		
Continuous (A)	5	5	5	5	5	5	5		
Making (A)	5	5	2.8	2.3	1.1	0.55	0.46		
Breaking (A)	5	5	2.8	23	11	0.55	0.46		

## **Reed Switch Block Ratings**

AC Operating Voltage	2-120 Vac	
AC Maximum Continuous Current	.00115A	
AC Resistive Watts	8 VA maximum	
DC Operating Voltage	2-30 Vdc	
DC Maximum Continuous Current	.00115A	
DC Resistive Watts	4.5 VA maximum	

### **Power Supply Resistor Values**

Resistor Value @ 120 Vac/dc	750 ohms ±5%, 5 watts, 2 resistors in series
Resistor Value @ 240 Vac/dc	2700 ohms ±5%, 5 watts, 2 resistors in series

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Technical Data 600 Volts Max. AC/DC 10 Amperes Continuous

### **Materials List**

Component	Material
Cap (non-illuminated)	Unfilled polyacetal
Cap (illuminated)	Polycarbonate
Metal housings	Chromium- or zinc-plated zinc ingot
Plastic housing	Nylon
White plunger	Unfilled polyacetal
Flange	Nylon
Grease	Good for temperatures of -42° to +204°C
Plate spacer	Polycarbonate
Locking plate	Chromium-plated zinc ingot
Locking ring	Chromium-plated zinc ingot
Hexagonal ring	Chromium-plated zinc ingot
Contact block housing	Nylon
Cam	Unfilled Polyacetal
Cam follower	Unfilled Polyacetal
Joystick protective housings	Vinyl nitrile
Terminal screw size	#6-32
Gasket	Vinyl nitrile
Contacts	Silver alloy
Push button guards	Chromium-plated zinc ingot
Wobble stick	Aluminum
Key	Brass
Protective caps	Silicon rubber
Locking attachment	Polycarbonate

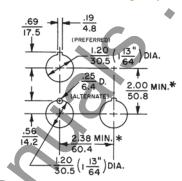
### **Mechanical Life Ratings**

· · · · · · · · · · · · · · · · · · ·	
Operator	Number of Operations
Standard push buttons	3,000,000
Illuminated push buttons (including push on/push off)	1,000,000
Momentary mushroom-head push buttons	3,000,000
Maintained and push-to-latch,	
turn-to-release mushroom-head push buttons	500,000
Selector switches (all)	1,000,000
Joysticks	500,000
Toggle switches	500,000
Wobble switches	1,000,000
Key-operated push buttons	500,000
Selector push buttons	1,000,000
Time-delay push buttons	1,000,000

## **Electrical Life Ratings**

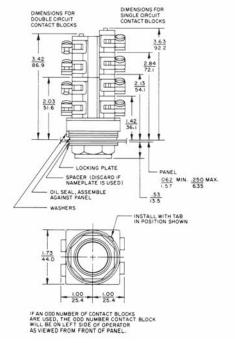
Operator		Number of Operations
Push buttons	X	5,000,000
Selector switches		500,000

## Outlines, Dimensions (mm) (For Estimating Only)



**Drilling Plan Dual Dimensions** 

CR104P push buttons are designed for front mounting, with or without nameplates, in 1 13/64" (30.5 mm) diameter holes. Operators are provided with an octagonal ring, spacers, and gaskets to ensure an oiltight, uniform front protrusion. Acceptable Panel Thickness: 0.04 - 0.25 inches (1.02 - 6.35 mm)



**Outline and Dimensions** 

For dimensional information on other operators, contact nearest GE Consumer & Industrial Representative. Manufacturing tolerances apply to all untoleranced dimensions.

No. of washers required	
3	
2	
2	
1	
0	
	No. of washers required  3 2 2 1 0

**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

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## Section 9

## Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Pilot Devices C-2000

600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

## C-2000 Push Buttons Reveal the Beauty of Simplicity in Every Detail

Back-tightened locking rings discourage tampering, accommodate a range of panel thickness, and tighten down with either a custom wrench or any flatbladed screwdriver.

Four operator styles—round polished and satin chrome, round and square engineered plastic—all reflect a sleek, distinctive European style and give you precisely the look and function you want in your push buttons. Ergonomic design adds ease of assembly and operation.

A removable orientation tab allows universal mounting in either notched or round 22.5 mm holes.

With 4-point contact, flanges snap securely onto the operator.

contamination better, even in the dustiest environments. Double bridge sliding contacts provide excellent performance, even in low-voltage applications. Terminals (both screw and quick-connect) can be wired off the operator, then snapped on. Contacts are rated A600, Q300.

Ultrasonically welded contact block

housings hold up longer and resist

Like contact blocks, power supplies just snap onto the mounting flange. Installation is quicker, labor costs are reduced. Choose from full-voltage, resistor and transformer power supplies with incandescent, LED or neon lamps.

The permanently bonded front gasket provides superior sealing against contaminants and makes installation nearly foolproof.

Markings are easy to read and, because they're laser-etched, they'll remain legible—permanently.

C-2000 push buttons bring the beauty of simplicity to heavy-duty 22 mm push buttons. You'll see it in their outstanding appearance, thoughtful ergonomics, expansive selection, innovative contact blocks, modular versatility, long-term reliability, and global applicability.

### Quick Reference Guide to C-2000 Push Buttons

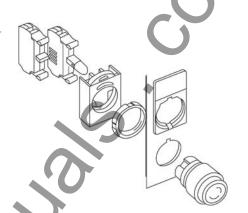
Introduction, Quick Reference Guide	9-58, 9-59
How to Select, Price and Order	9-60, 9-61
Nomenclature Keys	9-62 to 9-64
Standard Push Buttons	9-65
Illuminated Push Buttons	
Mushroom-Head Push Buttons, Emergency Push Button	9-69
Illuminated Mushroom-Head Push Buttons	9-71
Special Function, Non-Illuminated Push Buttons	9-72
Special Function, Illuminated Push Buttons	9-74
Key-Operated & Selector Push Buttons	9-76 to 9-77
Multi-Function Push Buttons	
Selector Switches	9-79
Pilot Lights	9-93
Push-to-Test Pilot Lights	9-94
Special Operators	9-96
Power Supplies & Contact Blocks	9-100
Nameplates	9-103
Specially Marked Push Button Caps; Diffusers & Inserts	9-107
Caps, Heads, Lenses & Handles	9-111
Plastic Enclosures, Nameplates, Contact Blocks & Power Supplies for Base-Mounted Pilot Devices	
Die-Cast Aluminum Enclosures	
Sheet Steel & Stainless Steel Enclosures	9-116
Accessories	9-118
Lamps	
Assembled Forms	
Technical Data	9-127 to 9-133



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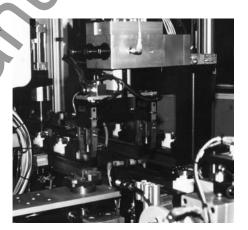
## True Modularity, Real Simplicity

Because all operators, flanges, contact blocks, and power supplies simply snap together, installation is fast, inventory requirements are slashed, and application flexibility is greatly increased. You can wire terminals off the operator, then snap the block on when you're done. Disassembly is just as easy.



#### Designed and Built for Reliability

Quality is built into every component using advanced design and manufacturing technologies. 100% on-line inspection assures you of the reliability you need.



## **Innovative Contact Blocks**

Unique, patented double bridge wiping contacts in ultrasonically welded housings provide long life and superior contact fidelity, even in low voltage applications.



## Worldwide Approval and Availability

C-2000 push buttons are truly global. Around the world their product numbers follow the same logical nomenclature that simplifies identification and specification. Around the world, they're readily available. Around the world, they meet the standards.



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**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

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Control Catalog

Section 9

### How To Select, Price And Order C-2000 Push Buttons

This catalog contains virtually all of the information you'll need to understand, evaluate, select, price, and apply C-2000 push buttons.

**Technical data,** on pages 9-127 to 9-133, provides complete specifications, terminal and contact data, mechanical and electrical life ratings, materials, power supply information, maximum contacts by operator, and lamp selection tips. Guideform specifications appear on page 9-133.

A guide to C-2000 push button nomenclature (pages 9-62 to 9-64) offers insight into this logical product numbering system. This will be helpful in understanding how the nomenclature works, and useful in deciphering particular product numbers, but should not be used to develop a specific product number, as not all possible combinations of product number digits produce available devices. To find a product number for a specific product, use the data beginning on page 9-65.

To select modular components, see pages 9-65 to 9-120. You'll find ordering modular components—as well as assembling and stocking them—fast and easy. To select assembled devices, see pages 9-121 to 9-126. Assembled devices provide a single product number for complete devices (which is a handy reference in certain circumstances, even if you order modular components). To develop a product number and list price for assembled components, just follow the step-by-step process explained in that section. Note that there is a \$5.00 (List Price, GO-10GC) assembly surcharge for assembled devices.

Many assembled devices are available from GE Consumer & Industrial stock. In the case that a required device is not available, the components to assemble it will generally be stocked. A third alternative may be to choose a similar assembled device and the required parts to modify it.

**To order,** contact your GE Consumer & Industrial distributor of the nearest GE Consumer & Industrial Representative.





Outstanding appearance and ergonomics. The beauty of C-2000 push buttons adds class to any papel. But their distinctive European styling also incorporates ergonomic design features that provide a sure, easy touch for the people who use them.

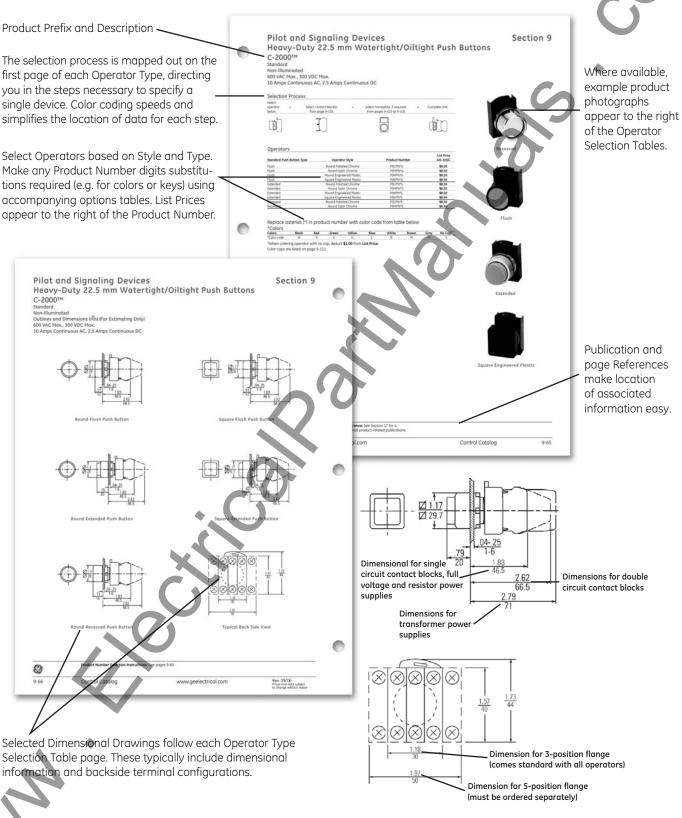


Huge selection. With four operator styles, a vast array of operator types, a complete selection of contact blocks and power supplies, your choice of nameplates and enclosures, lamps for every need, and a multitude of useful accessories, you'll find in C-2000 push buttons exactly what you're looking for.

(2<u>0</u>

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**Selecting Guide** 



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**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

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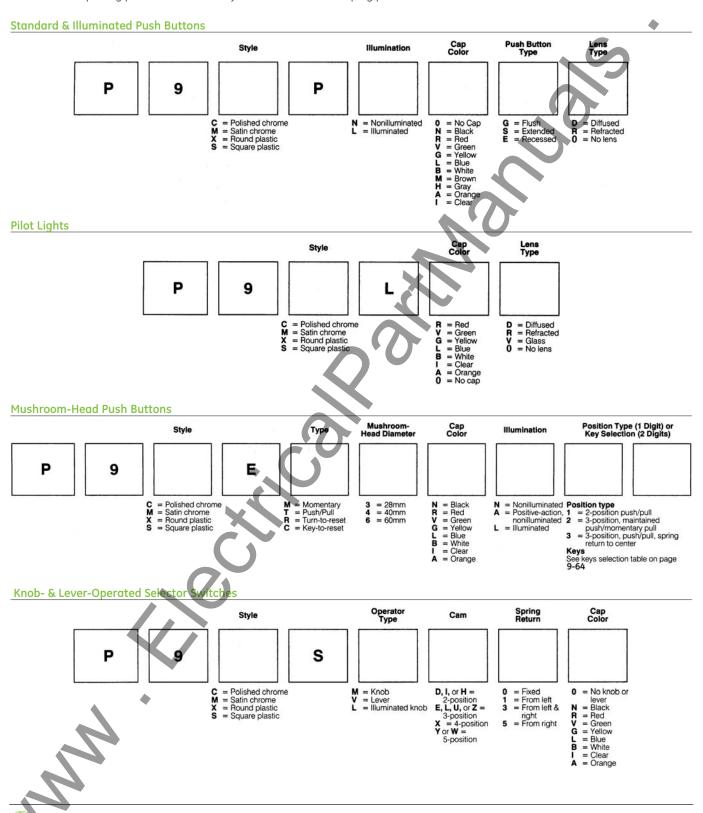
Control Catalog

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Section 9

For use in interpreting product numbers only. Do not use for developing product numbers.

C-2000 Nomenclature 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC



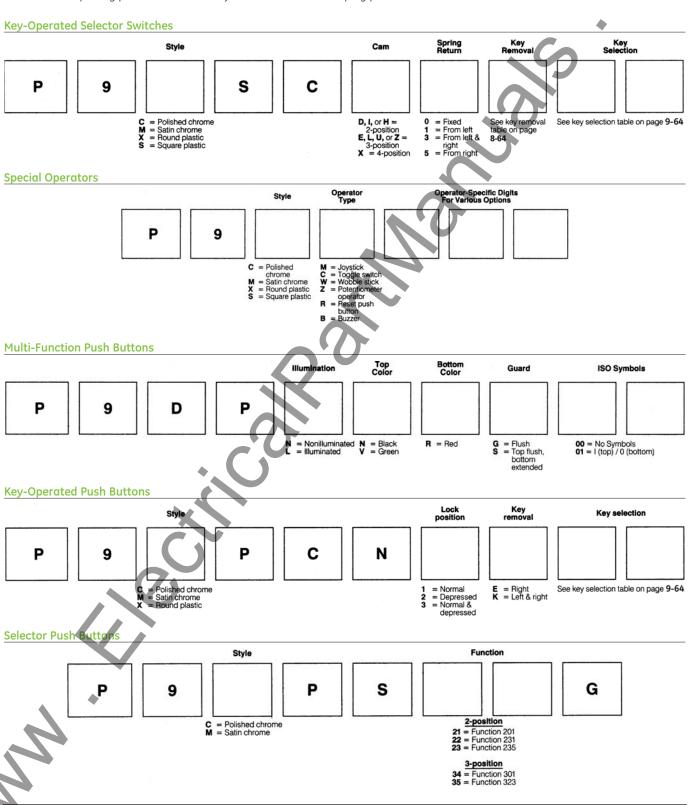
C-2000

**Nomenclature** 

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

For use in interpreting product numbers only. Do not use for developing product numbers.



**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

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Control Catalog

Control Catalog

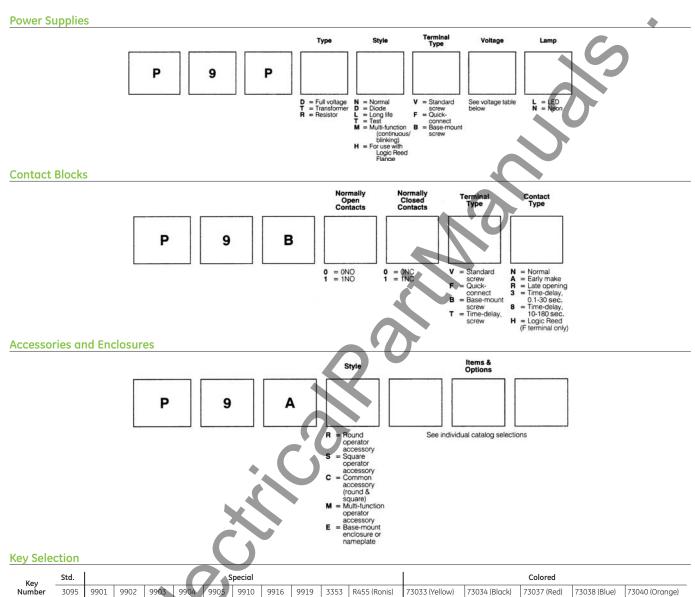
9-63

Nomenclature

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

For use in interpreting product numbers only. Do not use for developing product numbers.



## Key Code 95

01

02

**Control Catalog** 

Key Remova	l																		
								Key Re	emoval Po	sition fr	om Keyed	l Operat	ors						
2- & 3-Position	L	_	С	_	R	_	L-C	_	L-R	_	_	C-R	_	_	_	L-C-R	_	_	_
4-Position	2L	L	_	R	2R	2L-L	_	2L-R	2L-2R	L-R	L-2R	_	2-2R	2L-L-R	2L-L-2R	_	2L-R-2R	L-R-2R	2L-L-R-2R
Key Removal Code	A	В	С	D	Е	F	Н	J	К	L	М	N	Р	R	S	Т	U	V	Z

16

19

53

### Voltage

Voltage	No lamp	6	12	24	48	60	110	120	110-120	130	220	220-240	220-250	280	380	415-440	480-500	550-600
Voltage code	0	А	В	D	G	Н	I	J	J	L	М	N	N	R	U	W	Υ	Z



40

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Section 9

## C-2000

Standard
Non-Illuminated
600 VAC Max., 300 VDC Max.
10 Amps Continuous AC, 2.5 Amps Continuous DC



Select operator below	+	Select contact block(s) from page 9-101	+	Select nameplate, if required, from pages 9-103 to 9-105	=	Complete Unit



			List Price
Standard Push Button Type	Operator Style	Product Number	GO-10GC
Flush	Round Polished Chrome	P9CPN*G	\$8.50
Flush	Round Satin Chrome	P9MPN*G	\$8.50
Flush	Round Engineered Plastic	P9XPN*G	\$8.50
Flush	Square Engineered Plastic	P9SPN*G	\$8.50
Extended	Round Polished Chrome	P9CPN*S	\$8.50
Extended	Round Satin Chrome	P9MPN*S	\$8.50
Extended	Round Engineered Plastic	P9XPN*S	\$8.50
Extended	Square Engineered Plastic	P9SPN*S	\$8.50
Recessed	Round Polished Chrome	P9CPN*E	\$8.50
Recessed	Round Satin Chrome	P9MPN*E	\$8.50

Replace asterisk (\*) in product number with color code from table below

*	Ċ	^	l۸	rc	

Colors	Black	Red	Green	Yellow	Blue	White	Brown	Gray	No Cap <sup>1</sup>
*Color code	N	R	V	G	L	В	M	Н	0

<sup>&</sup>lt;sup>1</sup>When ordering operator with no cap, deduct \$1.00 from List Price. Color caps are listed on page 9-111.



Recessed



**Flush** 



Extended



**Square Engineered Plastic** 

9-65



**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

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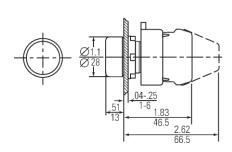
Control Catalog

C-2000 Standard

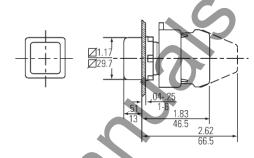
Non-Illuminated

Outlines and Dimensions (mm) (For Estimating Only) 600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

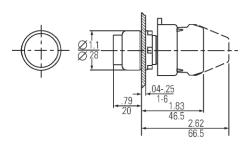


**Round Flush Push Button** 

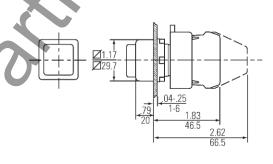


Section 9

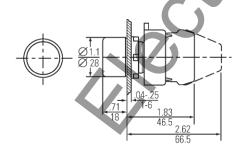
Square Flush Push Button



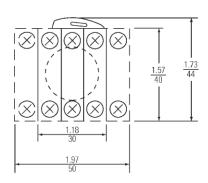
Round Extended Push Button



**Square Extended Push Button** 



**Round Recessed Push Button** 



Typical Back Side View

Product Number Selection Instructions: See pages 9-65

## C-2000

Standard Illuminated 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

## **Selection Process**

Select		Select power		Select contact		Select nameplate,		
operator	+	supply from pages	+	block from	+	if required, from	=	Complete unit
below		9-100 & 9-101		page 9-101		pages 9-103 to 9-105		











#### **Operators**

				List Price
Standard Push Button Type	Operator Style	Lens Type	Product Number	GO-10GC
Flush	Round Polished Chrome	Diffused	P9CPL*GD	\$11.50
Flush	Round Satin Chrome	Diffused	P9MPL*GD	\$11.50
Flush	Round Engineered Plastic	Diffused	P9XPL*GD	\$11.50
Flush	Squared Engineered Plastic	Diffused	P9SPL*GD	\$11.50
Extended	Round Polished Chrome	Diffused	P9CPL*SD	\$10.50
Extended	Round Satin Chrome	Diffused	P9MPL*SD	\$10.50
Extended	Round Engineered Plastic	Diffused	P9XPL*SD	\$10.50
Extended	Squared Engineered Plastic	Diffused	P9SPL*SD	\$10.50
Recessed	Round Polished Chrome	Diffused	P9CPL*ED	\$11.50
Recessed	Round Satin Chrome	Diffused	P9MPL*ED	\$11.50
Recessed	Round Engineered Plastic	Diffused	P9XPL*ED	\$11.50
Recessed	Sauared Engineered Plastic	Diffused	P9SPL*ED	\$11.50



#### \*Colors

Colors	Red	Green	Yellow	Blue	White	Orange	Clear	No Lens <sup>1</sup>
*Color code	R	V	G	L	В	А	I	0

<sup>1</sup>When ordering illuminated push buttons with no lens, change eighth digit in product number from D to O and deduct \$1.00 from List Price.

Color lenses are listed separately on page 9-112.



Flush



Recessed



Square Extended



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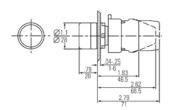
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**Control Catalog** 

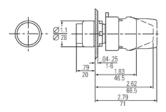
C-2000

Standard
Illuminated
Outlines and Dimensions (in/min) (For Estimating Only)
600 VAC Max., 300 VDC Max.

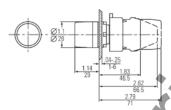
10 Amps Continuous AC, 2.5 Amps Continuous DC



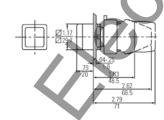
Round Illuminated Flush Push Button



Round Illuminated Extended Push Button

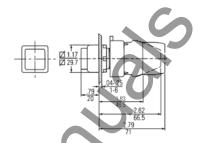


Round Illuminated Recessed Push Button



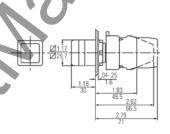
Square Illuminated Flush Push Button

Control Catalog

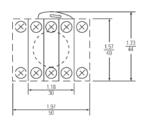


Section 9

Square Illuminated Extended Push Button



**Square Illuminated Recessed Push Button** 



Typical Back Side View

## C-2000

Mushroom-Head Non-Illuminated 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC



below		from page 9-101		from pages 9-103 to 9-105		П
Select operator	+	Select contact block(s)	+	Select nameplate, if required,	=	Complete Unit











Non-Illuminated Mushroom-Head **Push Button** 

#### **Momentary Operators**

Head Size	Operator Style	Product Number	GO-10GC
28 mm dia.	Round Polished Chrome	P9CEM3*N	\$16.50
40 mm dia.	Round Polished Chrome	P9CEM4*N	\$16.50
60 mm dia.	Round Polished Chrome	P9CEM6*N	\$18.50
28 mm dia.	Round Satin Chrome	P9MEM3*N	\$16.50
40 mm dia.	Round Satin Chrome	P9MEM4*N	\$16.50
6 0mm dia.	Round Satin Chrome	P9MEM6*N	\$18.50
28 mm dia.	Round Engineered Plastic	P9XEM3*N	\$18.50
40 mm dia.	Round Engineered Plastic	P9XEM4*N	\$16.50
60 mm dia.	Round Engineered Plastic	P9XEM6*N	\$18.50
29.7 mm sq.	Square Engineered Plastic	P9SEM3*N	\$16.50

Replace asterisk (\*) in product number with color code from table below

#### \*Colors

Colors	Black	Red	Green	I	Yellow
*Color code	N	R	V		G

## **Emergency Push Button**

Description	Product Number	Pack Qty.	List Price GO-10GC
Pushbutton E-Stop Latch T-R EN418	P9XER4RAN	5	\$28.20
Pushbutton E-Stop L-T-R EN418 Flag Ind	P9XER4RAW	5	\$33.20
Pushbutton E-Stop Latch Key-R EN418	P9XER4RA95N <sup>1</sup>	5	\$65.60
E-Stop Ass.Station EN418 Latch T-R	P9EPAG1Y01N	1	\$69.41
E-Stop Ass.Station EN418 L-T-R Flag Ind	P9EPAG1Y01W	1	\$74.41
E-Stop Ass.Station EN418 Latch Key-R	P9EPAG1Y06N	1	\$116.05



**Emergency Push-Button** 

## **Technical Data**

<sup>1</sup> With 2 keys code 3095

- **Positive opening:** Over center device provides positive action even if the actuator is partially depressed (anti-tease). Contacts open only after latching mechanism operates. Tamperproof mechanism is sealed to prevent interference.
- Compliance with standards:
   IEC 947.5.1 VDE0660 UTE BSI NEMA CENELEC EN 50007
- Approvals: UL CS/
- Degree of protection: IP66 in accordance with CENELEC EN 60529 suitable for use in enclosures type 1-3-3R-3S-4-4X-12-13 to UL 508
- Rated insulation voltage: 690V AC/DC according to EN 60947.1
- Impulse withstand voltage: 4kV according to EN 60947.1
- Electrical rating: rated thermal current Ith = 10 A

### Performances according to IEC 947.5.1

Category	AC	15

Voltage	Ue	(V)	24	48	60	110	220	380	500	600
Current	le	(A)	10	10	10	6	3	2	1.5	1.2
Category DC 13										
Voltage	Ue	(V)	24	48	60	110	220	300		
Current	le	(A)	2.5	1.4	1	0.55	0.27	0.2		

#### Performances according to CSA and UL

AC Heavy Duty	(A600)
DC Standard Duty	(Q300)

#### • Temperature ranges:

Operation	-25°C to + 70°C	
Storage	-40°C to + 70°C	

#### • Climatic conditions:

The standard versions are suitable for use in the following climates:					
Temperate climate	cat. 23/50 (DIN 50014)				
Wet climate	cat. 23/83 (DIN 50015)				
Hot wet climate	cat. 40/92 (DIN 50015)				
Variable wet climate	FW24 (DIN 50016)				

- Mechanical life: 0.3 million operations
- Max. number of contact blocks:

Screw terminal	max. 2 for a total of 4 electrical contacts
Faston terminal	max. 2 for a total of 2 electrical contacts



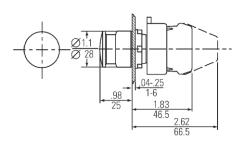
Publications and Reference: See Section 17 for a complete list of additional product-related publications Outlines and Dimensions: See page 9-70 Accessories: See page 9-110 to 9-119 Technical Data: See page 9-127 to 9-133

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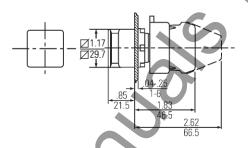
Rev. 1/08 www.geelectrical.com **Control Catalog** Prices and data subject to change without notice

## C-2000

Mushroom-Head
Non-Illuminated
Outlines and Dimensions (mm) (For Estimating Only)
600 VAC Max., 300 VDC Max.
10 Amps Continuous AC, 2.5 Amps Continuous DC

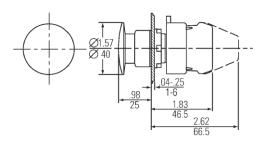


Round Mushroom-Head Push Button (28 mm)

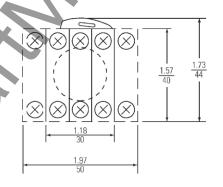


Section 9

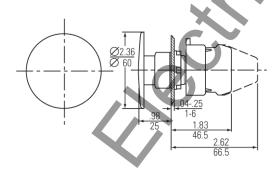
Square Mushroom-Head Push Button



Round Mushroom-Head Push Button (40 mm)



Typical Back Side View



Round Mushroom-Head Push Button (60 mm)

## C-2000

Mushroom-Head Illuminated 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC



#### **Selection Process**

Select		Select power		Select contact		Select nameplate,		
operator	+	supply from pages	+	block from	+	if required, from	=	Complete unit
below		9-100 & 9-101		page 9-101		pages 9-103 to 9-105		













**Momentary Operators** 

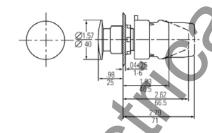
			List Price
Head Size	Operator Style	Product Number	GO-10GC
40 mm dia.	Round Polished Chrome	P9CEM4*L	\$16.50
40 mm dia.	Round Satin Chrome	P9MEM4*L	\$16.50
40 mm dia.	Round Engineered Plastic	P9XEM4*L	\$16.50
29.7 mm sq.	Square Engineered Plastic	P9SEM3*L	\$16.50

Replace asterisk (\*) in product number with color code from table below

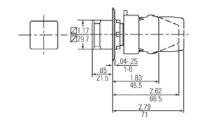
#### \*Colors

Colors	Red	Green	Yellow	Blue	White	Orange	Clear
*Color code	R	V	G	L	В	А	

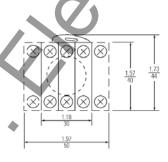
## Outlines and Dimensions (in. mm) (For Estimating Only







Square Illuminated Mushroom-Head Push Button



Typical Back Side View

(gg)

**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

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**Control Catalog** 

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C-2000

Special Function Non-Illuminated 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

### **Selection Process**

Select						
operator	+	Select contact block(s)	+	Select nameplate, if required,	=	Complete Unit
below		from page 9-101		from pages 9-103 to 9-105		









Section 9

Non-Illuminated Special Function Push Buttons

## Push-To-Latch (Red)

Release Type	Head Size	Operator Style	Product Number	List Price GO-10GC
Turn-to-Release	28 mm dia.	Round Polished Chrome	P9CER3RN	\$38.50
Turn-to-Release	40 mm dia.	Round Polished Chrome	P9CER4RN	\$38.50
Turn-to-Release	28 mm dia.	Round Satin Chrome	P9MER3RN	\$38.50
Turn-to-Release	40 mm dia.	Round Satin Chrome	P9MER4RN	\$38.50
Turn-to-Release	40 mm dia.	Round Engineered Plastic	P9XER4RA <sup>1</sup>	\$38.50
Turn-to-Release	28 mm dia.	Square Engineered Plastic	P9XER4RN	\$38.50
Turn-to-Release	40 mm dia.	Square Engineered Plastic	P9SER4RA <sup>1</sup>	\$38.50
Key-to-Release	40 mm dia.	Round Polished Chrome	P9CEC4RN†	\$53.50
Key-to-Release	40 mm dia.	Round Satin Chrome	P9MEC4RN†	\$53.50
Key-to-Release	40 mm dia.	Round Engineered Plastic	P9XEC4RA†1	\$53.50
Key-to-Release	40 mm dia.	Square Engineered Plastic	P9SEC4RA†1	\$53.50

<sup>&</sup>lt;sup>1</sup>Direct snap action push buttons per EN 418. Fully depressing the button will ensure that the NC contacts have been opened by purely mechanical means. Less than full depression of the button will not change contact state.

Replace dagger (†) in product number with key code from Keys table below

## Keys (Set of 2)†

, . ,	,										
Key	Std.	Special <sup>1</sup>									
Number	3095	9901	9902	9903	9904	9905	9910	9916	9919	3353	R455 (Ronis)
†Key Code	95	01	02	03	04	05	10	16	19	53	55

Key			Colored <sup>1</sup>		
Number	73033 (Yellow)	73034 (Black)	73037 (Red)	73038 (Blue)	73040 (Orange)
†Key Code	33	34	37	38	40

<sup>&</sup>lt;sup>1</sup>To order with other than standard key code (95), add **\$4.00** to **List Price, GO-10GC.** Minimum quantity order on Key Codes 95, 55, and 33 is one; for all others, minimum quantity order is ten.

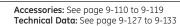
## Push-Pull

Position Type	Operator Style	Head Size	Product Number	List Price GO-10GC
2-Position Maintained	Round Polished Chrome	40 mm dia.	P9CET4*N1	\$21.50
2-Position Maintained	Round Satin Chrome	40 mm dia.	P9MET4*N1	\$21.50
2-Position Maintained	Round Engineered Plastic	40 mm dia.	P9XET4*N1	\$21.50
2-Position Maintained	Square Engineered Plastic	40 mm dia.	P9SET4*N1	\$21.50
3-Position Maintained Push—Momentary Pull	Round Polished Chrome	40 mm dia.	P9CET4*N2	\$31.00
3-Position Maintained Push—Momentary Pull	Round Satin Chrome	40 mm dia.	P9MET4*N2	\$31.00
3-Position Maintained Push—Momentary Pull	Round Engineered Plastic	40 mm dia.	P9XET4*N2	\$31.00
3-Position Maintained Push—Momentary Pull	Square Engineered Plastic	40 mm dia.	P9SET4*N2	\$31.00
3-Position Momentary Push—Momentary Pull	Round Polished Chrome	40 mm dia.	P9CET4*N3	\$31.00
3-Position Momentary Push—Momentary Pull	Round Satin Chrome	40 mm dia.	P9MET4*N3	\$31.00
3-Position Momentary Push—Momentary Pull	Round Engineered Plastic	40 mm dia.	P9XET4*N3	\$31.00
3-Position Momentary Push—Momentary Pull	Square Engineered Plastic	40 mm dia.	P9SET4*N3	\$31.00

## Replace asterisk (\*) in product number with color code from table below

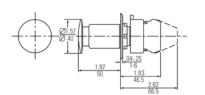
#### \*Colors

Colors	Black	Red	Green	Yellow
*Color code	A	R	V	G

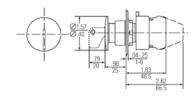


# C-2000

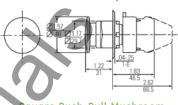
Special Function
Non-Illuminated
Outlines and Dimensions (in/min) (For Estimating Only)
600 VAC Max., 300 VDC Max.
10 Amps Continuous AC, 2.5 Amps Continuous DC



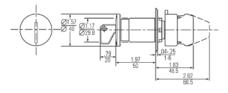
Round Plastic Emergency Stop Turn-to-Release



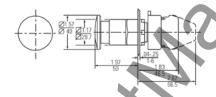
Round Metal Emergency Stop Key-to-Release



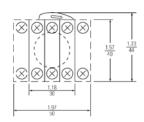
Square Push-Pull Mushroom-Head Push Button



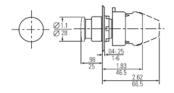
Round Plastic Emergency Stop Key-to-Release



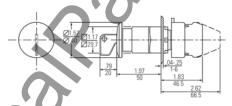
Square Emergency Stop Turn-to-Release



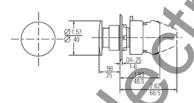
Typical Back Side View



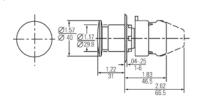
Round Metal Emergency
Stop Turn-to-Release (28 mm)



Square Emergency Stop Key-to-Release



Round Metal Emergency Stop Turn-to-Release (40 mm)



Round Push-Pull
Mushroom-Head Push Button

(gg)

**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

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**Control Catalog** 

C-2000

Special Function Illuminated 600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

### **Selection Process**

Select operator	+	Select power supply from pages	+	Select contact	+	Select nameplate, if required, from	=	Complete unit	
below	·	9-100 & 9-101		page 9-101		pages 9-103 to 9-105		complete and	
_				_					













Section 9

# Illuminated Special Function Push Buttons

# Push-Pull

				List Price
Position Type	Head Size	Operator Style	Product Number	GO-10GC
2-Position Maintained	40 mm dia.	Round Polished Chrome	P9CET4*L1	\$23.50
2-Position Maintained	40 mm dia.	Round Satin Chrome	P9MET4*L1	\$23.50
2-Position Maintained	40 mm dia.	Round Engineered Plastic	P9XET4*L1	\$23.50
2-Position Maintained	40 mm dia.	Square Engineered Plastic	P9SET4*L1	\$23.50
3-Position Maintained Push—Momentary Pull	40 mm dia.	Round Polished Chrome	P9CET4*L2	\$31.00
3-Position Maintained Push—Momentary Pull	40 mm dia.	Round Satin Chrome	P9MET4*L2	\$31.00
3-Position Maintained Push—Momentary Pull	40 mm dia.	Round Engineered Plastic	P9XET4*L2	\$31.00
3-Position Maintained Push—Momentary Pull	40 mm dia.	Square Engineered Plastic	P9SET4*L2	\$31.00
3-Position Momentary Push—Momentary Pull	40 mm dia.	Round Polished Chrome	P9CET4*L3	\$31.00
3-Position Momentary Push—Momentary Pull	40 mm dia.	Round Satin Chrome	P9MET4*L3	\$31.00
3-Position Momentary Push—Momentary Pull	40 mm dia.	Round Engineered Plastic	P9XET4*L3	\$31.00
3-Position Momentary Push—Momentary Pull	40 mm dia.	Square Engineered Plastic	P9SET4*L3	\$31.00

Replace asterisk (\*) in product number with color code from table below

# \*Colors

Colors	Red	Green	Yellow	Blue	White	Orange	Clear
*Color code	R	V	G	L	В	А	

### **Cams - 3 Position Buttons**

Note selection and position of contact block(s).

	Position				Contact Block	
Push	Center	Pull	Position 1	Position 2	Position 1	Position 2
0	Χ	Χ	P9B01VR			
0	0	Χ		P9B01VN		
X	0	0	A A =	P9B10VN	_	P9B10FN
0	0	Χ	P9B01VN	_	P9B01FN	_
X	0	0	P9B11VN	_	_	_
0	0	Х	P9B11VN	-	_	_
	Push			Position         Contact           Push         Center         Pull         Position 1           O         X         X         P9B01VR           O         O         X           X         O         O           O         O         X         P9B01VN           X         O         O         P9B11VN	Position   Contact Block   Position 1   Position 2	Position   Contact Block   Contact Block   Position 1   Position 2   Position 1   Position 2   Position 1

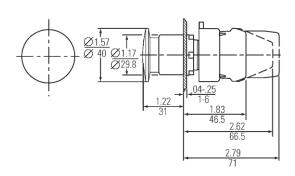


Contact Block Positions (viewed from rear)

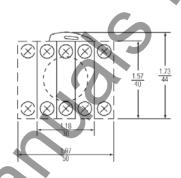
Accessories: See page 9-110 to 9-119 Technical Data: See page 9-127 to 9-133

# C-2000

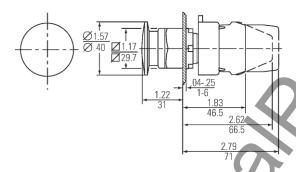
Special Function
Illuminated
600 VAC Max., 300 VDC Max.
10 Amps Continuous AC, 2.5 Amps Continuous DC
Outlines, Dimensions (in mm) (For Estimating Only)



Round Illuminated Push-Pull Mushroom-Head Push Button



Typical Back Side View



Square Illuminated Push-Pull Mushroom-Head Push Button<sup>1</sup>

 $^{1}$ Color heads-lenses are listed separately on page 9 112.



**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

Key Operated 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

# **Operators**

Lockable Position	Operator Style	Key Removal	Product Number	List Price GO-10GC
Normal	Round Polished Chrome	Right	P9CPCN1E†	\$50.50
Normal	Round Polished Chrome	Left and Right	P9CPCN1K†	\$50.50
Normal	Round Satin Chrome	Right	P9MPCN1E†	\$50.50
Normal	Round Satin Chrome	Left and Right	P9MPCN1K†	\$50.50
Normal	Round Engineered Plastic	Right	P9XPCN1E†	\$50.50
Normal	Round Engineered Plastic	Left and Right	P9XPCN1K†	\$50.50
Depressed	Round Polished Chrome	Right	P9CPCN2E†	\$50.50
Depressed	Round Polished Chrome	Left and Right	P9CPCN2K†	\$50.50
Depressed	Round Satin Chrome	Right	P9MPCN2E†	\$50.50
Depressed	Round Satin Chrome	Left and Right	P9MPCN2K†	\$50.50
Depressed	Round Engineered Plastic	Right	P9XPCN2E†	\$50.50
Depressed	Round Engineered Plastic	Left and Right	P9XPCN2K†	\$50.50
Normal & Depressed	Round Polished Chrome	Right	P9CPCN3E†	\$50.50
Normal & Depressed	Round Polished Chrome	Left and Right	P9CPCN3K†	\$50.50
Normal & Depressed	Round Satin Chrome	Right	P9MPCN3E†	\$50.50
Normal & Depressed	Round Satin Chrome	Left and Right	P9MPCN3K†	\$50.50
Normal & Depressed	Round Engineered Plastic	Right	P9XPCN3E†	\$50.50
Normal & Depressed	Round Engineered Plastic	Left and Right	P9XPCN3K†	\$50.50



Section 9

**Key Operated Push Button** 

Replace dagger (†) in product number with key code digit from Keys table below

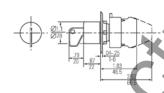
# †Keys (Set of 2)

Key	Std.					Spi	ecial <sup>1</sup>				
Number	3095	9901	9902	9903	9904	9905	9910	9916	9919	3353	R455 (Ronis)
†Key Code	95	01	02	03	04	05	10	16	19	53	55

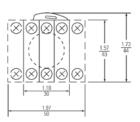
Key			Colored <sup>1</sup>		
Number	73033 (Yellow)	73034 (Black)	73037 (Red)	73038 (Blue)	73040 (Orange)
†Key Code	33	34	37	38	40

 $<sup>^{1}\</sup>mathrm{To}$  order with other than standard key code (95), add \$4.00 to List Price, GO-10GC.

# Outlines and Dimensions (in. (For Estimating Only)



Round Key Push Button



Typical Back Side View

Accessories: See page 9-110 to 9-119 Technical Data: See page 9-127 to 9-133

Minimum quantity order on Key Codes 95, 55 and 33 is one; for all others minimum quantity order is ten.

# C-2000

Selector Operated 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

### **Operators**

		List Price
Operator Style	Product Number	CO-10GC
Round Polished Chrome	P9CPS‡G	\$26.50
Round Satin Chrome	P9MPS‡G	\$26.50

Replace double dagger  $(\ddagger)$  in product number with cam code digits from keys table below

### ‡Cams

+Cuiii3					
Cam	201	231	235	301	323
‡Cam Code	21	22	23	34	35
Positions	2	2	2	3	3



**Selector Push Button** 

### **Cam Logic**

Note selection and position of contact block(s) for cam.

				Selector					
		Le	ft	Ce	nter	Rig	ht	Screw Termino	I Contact Block
Positions	Cam Code	Out	In	Out	In	Out	In	Position 1	Position 2
2	21	0	0	_	_	0	X	P9B11VN	
		X	Χ	_	_	Χ	0	PADITAIN	
		0	Χ	_	_	0	0		P9B11VN
		Χ	0	_	_	X	Х		Paptinin
	22	0	X	_	_	0	X	P9B11VN	_
		X	0	_	_	X	0	L 3011VIV	
		0	0	_	_	X	Х		P9B11VN
		Χ	Χ	_	_	0	0		Lapitain
	23	0	X	_	_	0	N/A <sup>1</sup>	P9B11VN	
		X	0	_	_	X	<b>1</b>	F3B11VIV	
		0	0	_	_	X	N/A <sup>1</sup>		P9B11VN
		X	Χ	_		0			1 2011/1/
3	34	0	0	0	X	0	X	P9B11VN	_
		X	Х	X	0	X	0	1 2011 114	
		0	X	0	X	0	0	_	P9B11VN
		X	0	X	0	X	X		1 7011 111
	35	0	0	0	N/A <sup>2</sup>	0	X	P9B11VN	_
		X	Х	0	N/A <sup>2</sup>	0	0	1 2011/14	
		0	X	0	N/A <sup>2</sup>	0	0	_	P9B11VN
		0	0	0	N/A <sup>2</sup>	X	Χ		LOUITVIN

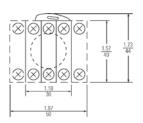


Contact Block Positions (viewed from rear)

# Outlines and Dimensions ( $\stackrel{\text{in}}{\text{mm}}$ ) (for Estimating Only)



**Round Selector Push Button** 



Typical Back Side View



**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

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**Control Catalog** 

<sup>&</sup>lt;sup>1</sup>Cam 23 cannot be depressed in right position.

<sup>&</sup>lt;sup>2</sup>Cam 35 cannot be depressed in center position.

C-2000

Multi Function Illuminated 600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

# **Selection Process**

Select operator below	+	Select power supply from pages 9-100 & 9-101	+	Select contact block from page 9-101	+	Select nameplate, if required, from pages 9-103 to 9-105	=	Complete unit
		optional						



ulti Function Push Buttons

Section 9

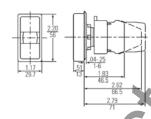
# **NEMA 1 Operators**

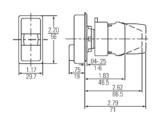
Color	Special Function Type	Marking	Product Number	List Price GO-10GC
Black Top - Red Bottom	Flush	None	P9DPLNRG00	\$21.50
Black Top - Red Bottom	Flush	Top-I, Bottom-O	P9DPLNRG01	\$21.50
Black Top - Red Bottom	Flush Top, Extended Bottom	None	P9DPLNRS00	\$21.50
Black Top - Red Bottom	Flush Top, Extended Bottom	Top—I, Bottom—O	P9DPLNRS01	\$21.50
Green Top - Red Bottom	Flush	None	P9DPLVRG00	\$21.50
Green Top - Red Bottom	Flush	Top-I, Bottom-O	P9DPLVRG01	\$21.50
Green Top - Red Bottom	Flush Top, Extended Bottom	None	P9DPLVRS00	\$21.50
Green Top - Red Bottom	Flush Top, Extended Bottom	Top—I, Bottom—O	P9DPLVRS01	\$21.50

### Accessories

		List Price
Description	Operator Type	Product Number GO-10GC
Silicone rubber boot For conversion to NEMA 3, 3R, 3S, 4, 4X, 12 & 13, and IP66	Flush	080CPDT \$5.00
Silicone rubber boot For conversion to NEMA 3, 3R, 3S, 4, 4X, 12 & 13, and IP66	Flush Top/Extended Bottom	P9ADCST \$5.00

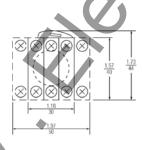
# Outlines and Dimensions (mm) (For Estimating Only)





Double Push Button (Top & Bottom Flush)

Double Push Button (Top Flush & Bottom Extended)



Typical Back Side View

Accessories: See page 9-110 to 9-119 Technical Data: See page 9-127 to 9-133

# Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Selector Switches

# C-2000

2-Position Knob Operated Selector Switches Non-Illuminated 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

# **Selection Process**

below		from page 9-101		from pages 9-103 to 9-105		
Select operator	+	Select contact block(s)	+	Select nameplate, if required,	=.	Complete Unit









# **Knob 2 Position**

				List Price
Operator Style	Release Type	Cam Code	Product Number	GO-10GC
Round Polished Chrome	Maintained	D, I, H	P9CSM‡0*	\$14.50
Round Satin Chrome	Maintained	D, I, H	P9MSM‡0*	\$14.50
Round Engineered Plastic	Maintained	D, I, H	P9XSM‡0*	\$14.50
Square Engineered Plastic	Maintained	D, I, H	P9SSM‡0*	\$14.50
Round Polished Chrome	Spring Return L → C	Н	P9CSMH1*	\$16.50
Round Satin Chrome	Spring Return L → C	Н	P9MSMH1*	\$16.50
Round Engineered Plastic	Spring Return L → C	Н	P9XSMH1*	\$16.50
Square Engineered Plastic	Spring Return L → C	Н	P9SSMH1*	\$16.50
Round Polished Chrome	Spring Return L ← R	D	P9CSMD5*	\$16.50
Round Satin Chrome	Spring Return L ← R	D	P9M\$MD5*	\$16.50
Round Engineered Plastic	Spring Return L ← R	D	P9XSMD5*	\$16.50
Square Engineered Plastic	Spring Return L ← R	D	P9SSMD5*	\$16.50
Round Polished Chrome	Spring Return C ← R	I	P9CSMI5*	\$16.50
Round Satin Chrome	Spring Return C ← R	I ,	P9MSMI5*	\$16.50
Round Engineered Plastic	Spring Return C ← R	I	P9XSMI5*	\$16.50
Square Engineered Plastic	Spring Return C ← R	4	P9SSMI5*	\$16.50
	Round Polished Chrome Round Satin Chrome Round Engineered Plastic Square Engineered Plastic Round Polished Chrome Round Satin Chrome Round Satin Chrome Round Engineered Plastic Square Engineered Plastic Round Polished Chrome Round Satin Chrome Round Engineered Plastic Square Engineered Plastic Round Polished Chrome Round Engineered Plastic Round Polished Chrome Round Satin Chrome Round Satin Chrome	Round Polished Chrome Round Satin Chrome Round Satin Chrome Round Engineered Plastic Square Engineered Plastic Round Polished Chrome Round Satin Chrome Round Satin Chrome Round Satin Chrome Round Engineered Plastic Square Engineered Plastic Square Engineered Plastic Spring Return L → C Square Engineered Plastic Spring Return L → C Round Polished Chrome Round Satin Chrome Spring Return L ← R Round Engineered Plastic Square Engineered Plastic Spring Return L ← R Round Engineered Plastic Spring Return L ← R Square Engineered Plastic Spring Return L ← R Round Satin Chrome Spring Return L ← R Round Satin Chrome Spring Return L ← R Round Satin Chrome Spring Return C ← R Round Engineered Plastic Spring Return C ← R	Round Polished Chrome Round Satin Chrome Round Satin Chrome Round Engineered Plastic Round Polished Chrome Round Polished Chrome Round Satin Chrome Round Polished Chrome Round Satin Chrome Round Satin Chrome Round Engineered Plastic Spring Return L → C H Round Engineered Plastic Spring Return L → C H Round Engineered Plastic Spring Return L → C H Round Polished Chrome Spring Return L → C Round Polished Chrome Spring Return L ← R D Round Polished Chrome Spring Return L ← R D Round Engineered Plastic Spring Return L ← R D Round Engineered Plastic Spring Return L ← R D Round Polished Chrome Spring Return C ← R Round Satin Chrome Spring Return C ← R I Round Engineered Plastic Spring Return C ← R I Round Engineered Plastic Spring Return C ← R I Round Engineered Plastic Spring Return C ← R I Round Engineered Plastic Spring Return C ← R I	Round Polished Chrome       Maintained       D, I, H       P9CSMt0*         Round Satin Chrome       Maintained       D, I, H       P9MSMt0*         Round Engineered Plastic       Maintained       D, I, H       P9XSMt0*         Square Engineered Plastic       Maintained       D, I, H       P9XSMt0*         Round Polished Chrome       Spring Return L → C       H       P9CSMH1*         Round Satin Chrome       Spring Return L → C       H       P9MSMH1*         Round Engineered Plastic       Spring Return L → C       H       P9XSMH1*         Square Engineered Plastic       Spring Return L ← R       D       P9CSMD5*         Round Satin Chrome       Spring Return L ← R       D       P9XSMD5*         Round Engineered Plastic       Spring Return L ← R       D       P9XSMD5*         Square Engineered Plastic       Spring Return L ← R       D       P9XSMD5*         Round Polished Chrome       Spring Return C ← R       I       P9SSMD5*         Round Satin Chrome       Spring Return C ← R       I       P9MSMI6*         Round Engineered Plastic       Spring Return C ← R       I       P9MSMI6*

Replace double dagger (‡) in maintained product number with cam code from cams table below.

### Cams

Choose desired cam. Note selection and position of contact block(s).

						Quick-Connect		
			$\odot$	Screw Termina	Screw Terminal Contact Block		Terminal Contact Block	
‡Cam Code		$\circ$		Position 1	Position 2	Position 1	Position 2	
D	0	_	Χ	-	P9B10VN	_	P9B10FN	
	X	_	0	P9B01VN	-	P9B01FN	_	
	0	-	Х	P9B11VN				
	X	_	0	BADITAIN	_		_	
		0	Χ		P9B10VN	_	P9B10FN	
	_	Χ	0	P9B01VN	_	P9B01FN	_	
	_	0	X	000111/N				
	_	X	0	P9 <b>B1</b> 1VN	_	_	_	
Н	Χ	0		_	P9B10VN	_	P9B10FN	
	0	Χ	T- /	P9B01VN	_	P9B01FN	_	
	X	0		P9B11VN	_	_	_	
	0	X	_	FJDIIVN				

Replace asterisk (\*) in product number with color code from colors table below.

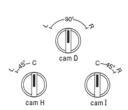
# \*Colors

Colors	Black	Red	Green	Yellow	Blue	No Knob <sup>1</sup>
*Color code	N	R	V	G	L	0

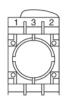
<sup>&</sup>lt;sup>1</sup>Subtract **\$3.00** from **List Price, GO-10GC**. for selector switches ordered without knobs. Color knobs are listed separately on page 9-111.







**Operator Positions** 



Contact Block Positions (viewed from rear)

(gg)

**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

Outlines and Dimensions: See page 9-85 Accessories: See page 9-110 to 9-119 Technical Data: See page 9-127 to 9-133

Rev. 1/08
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**Control Catalog** 

9-79

# Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Selector Switches C-2000

2-Position Lever Operated Selector Switches Non-Illuminated 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

# Black Lever 2-Position

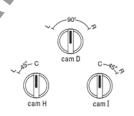
Operator Style	Release Type	Cam Code	Product Number	List Price GO-10GC
Operator Style	Release Type	cuili code	Troduct Number	00-1000
Round Polished Chrome	Maintained	D, I, H	P9CSV‡0N	\$14.50
Round Satin Chrome	Maintained	D, I, H	P9MSV‡0N	\$14.50
Round Engineered Plastic	Maintained	D, I, H	P9XSV‡0N	\$14.50
Round Polished Chrome	Spring Return L → C	Н	P9CSVH1N	\$16.50
Round Satin Chrome	Spring Return L → C	Н	P9MSVH1N	\$16.50
Round Engineered Plastic	Spring Return L → C	Н	P9XSVH1N	\$16.50
Round Polished Chrome	Spring Return L ← R	D	P9CSVD5N	\$16.50
Round Satin Chrome	Spring Return L ← R	D	P9MSVD5N	\$16.50
Round Engineered Plastic	Spring Return L ← R	D	P9XSVD5N	\$16.50
Round Polished Chrome	Spring Return C ← R	I	P9CSVI5N	\$16.50
Round Satin Chrome	Spring Return C ← R	I	P9MSVI5N	\$16.50
Round Engineered Plastic	Spring Return C ← R	1	P9XSVI5N	\$16.50
	Round Satin Chrome Round Engineered Plastic Round Polished Chrome Round Satin Chrome Round Engineered Plastic Round Polished Chrome Round Satin Chrome Round Satin Chrome Round Engineered Plastic Round Polished Chrome Round Engineered Plastic Round Polished Chrome Round Satin Chrome	Round Polished Chrome Round Satin Chrome Round Engineered Plastic Round Polished Chrome Round Satin Chrome Round Satin Chrome Round Satin Chrome Round Engineered Plastic Round Satin Chrome Round Engineered Plastic Round Polished Chrome Round Satin Chrome Round Engineered Plastic Spring Return L ← R Round Engineered Plastic Spring Return L ← R Round Engineered Plastic Spring Return L ← R Round Polished Chrome Spring Return C ← R Round Satin Chrome Spring Return C ← R	Round Polished Chrome       Mointained       D, I, H         Round Satin Chrome       Maintained       D, I, H         Round Engineered Plastic       Mointained       D, I, H         Round Polished Chrome       Spring Return L → C       H         Round Satin Chrome       Spring Return L → C       H         Round Engineered Plastic       Spring Return L → C       H         Round Polished Chrome       Spring Return L ← R       D         Round Satin Chrome       Spring Return L ← R       D         Round Engineered Plastic       Spring Return L ← R       D         Round Polished Chrome       Spring Return C ← R       I         Round Satin Chrome       Spring Return C ← R       I	Round Polished Chrome       Mointained       D, I, H       P9CSV‡ON         Round Satin Chrome       Maintained       D, I, H       P9MSV‡ON         Round Engineered Plastic       Mointained       D, I, H       P9MSV‡ON         Round Engineered Plastic       Mointained       D, I, H       P9MSV‡ON         Round Polished Chrome       Spring Return L → C       H       P9MSVH1N         Round Engineered Plastic       Spring Return L → C       H       P9MSVH1N         Round Polished Chrome       Spring Return L ← R       D       P9GSVD5N         Round Satin Chrome       Spring Return L ← R       D       P9MSVD5N         Round Polished Chrome       Spring Return L ← R       D       P9XSVD5N         Round Polished Chrome       Spring Return C ← R       I       P9CSVI5N         Round Satin Chrome       Spring Return C ← R       I       P9MSVI5N

Replace double dagger (‡) in maintained product number with cam code from cams table below.

# Cams

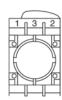
Choose desired cam. Note selection and position of contact block(s).

				Screw Termina	l Contact Block	•	ontact Block
‡Cam Code	lacksquare	•	lacksquare	Position 1	Position 2	Position 1	Position 2
D	0	_	Х	-	P9B10VN	- 4	P9B10FN
	X	_	0	P9B01VN	_	P9B01FN	_
	0	_	X	DOD11\/N			
	Χ	_	0	P9B11VN	_		_
I		0	Χ	_	P9B10VN	-	P9B10FN
	_	Χ	0	P9B01VN	-	P9B01FN	_
	_	0	X	DOD11\/N			
	_	X	0	P9B11VN	_		_
Н	Х	0	-	_	P9B10VN	-	P9B10FN
	0	X	_	P9B01VN	-	P9B01FN	_
	X	0	_	DOD11/N			
	0	X	_	P9B11VN	-	/ / -	_



Section 9

**Operator Positions** 



Contact Block Positions (viewed from rear)

# Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Selector Switches

# C-2000

3-Position Knob Operated Selector Switches Non-Illuminated 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

# **Selection Process**

Select operator below	+	Select contact block(s) from page 9-101	+	Select nameplate, if required, from pages 9-103 to 9-105	=	Complete Unit
	1	200				Па









# **Knob 3-Position**

					List Price
Position Type	Operator Style	Release Type	Cam Codes	Product Number	GO-10GC
3-Position	Round Polished Chrome	Maintained	Z, E, L, U	P9CSM‡0*	\$14.50
3-Position	Round Satin Chrome	Maintained	Z, E, L, U	P9MSM‡0*	\$14.50
3-Position	Round Engineered Plastic	Maintained	Z, E, L, U	P9XSM‡0*	\$14.50
3-Position	Square Engineered Plastic	Maintained	Z, E, L, U	P9SSM‡0*	\$14.50
3-Position	Round Polished Chrome	Spring Return L → C	Z, E, L, U	P9CSM‡1*	\$16.50
3-Position	Round Satin Chrome	Spring Return L → C	Z, E, L, U	P9MSM‡1*	\$16.50
3-Position	Round Engineered Plastic	Spring Return L → C	Z, E, L, U	P9XSM‡1*	\$16.50
3-Position	Square Engineered Plastic	Spring Return L → C	Z, E, L, U	P9\$\$M#1*	\$16.50
3-Position	Round Polished Chrome	Spring Return C ← R	Z, E, L, U	P9CSM‡5*	\$16.50
3-Position	Round Satin Chrome	Spring Return C ← R	Z, E, L, U	P9MSM‡5*	\$16.50
3-Position	Round Engineered Plastic	Spring Return C ← R	Z, E, L, U	P9XSM‡5*	\$16.50
3-Position	Square Engineered Plastic	Spring Return C ← R	Z, E, L, U	P9SSM‡5*	\$16.50
3-Position	Round Polished Chrome	Spring Return L → C ← R	Z, E, L, U	P9CSM‡3*	\$16.50
3-Position	Round Satin Chrome	Spring Return L → C ← R	Z, E, L, U	P9MSM‡3*	\$16.50
3-Position	Round Engineered Plastic	Spring Return L → C ← R	Z, E, L, U	P9XSM‡3*	\$16.50
3-Position	Square Engineered Plastic	Spring Return L → C ← R	Z, E, L, U	P9SSM‡3*	\$16.50



Choose desired cam. Note selection and position of contact block(s).

						Quick-	Connect
				Screw Terminal	Contact Block	Terminal C	ontact Block
‡Cam Code	$\odot$	$\odot$	$\odot$	Position 1	Position 2	Position 1	Position 2
Z	0	0	Х	P9B10VN		P9B10FN	_
	X	0	0	-	P9B10VN	_	P9B10FN
	X	Χ	0	P9B01VN	_	P9B01FN	_
	0	Χ	Χ		P9B01VN	_	P9B01FN
	0	0	X	P9B11VN	_	_	_
	X X 0	0 X	0 0 X		P9B11VN	_	_
F	0	0	X	1	P9B01VN	_	P9B01FN
	0	Х	0	P9B10VN	_	P9B10FN	_
	0	0	X	P9B11VN	-	-	-
L	X	0	0	-	P9B10VN	_	P9B10FN
	0	Χ.	0	P9B01VN	_	P9B01FN	_
	×	0 X	0	P9B11VN	-	_	-
U	0	0 X	X 0	P9B11VN	-	_	-
	0 X	0	X	_	P9B11VN	_	_

Replace asterisk (\*) in product number with color code from colors table below.

*Colors						
Colors	Black	Red	Green	Yellow	Blue	No Knob <sup>1</sup>
*Color code	N	R	V	G	L	0

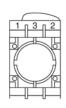
<sup>&</sup>lt;sup>1</sup>Subtract \$3.00 from List Price, GO-10GC. for selector switches ordered without knobs. Color knobs are listed separately on page 9-111.



3-Position Selector Switches



**Operator Positions** 



Contact Block Positions (viewed from rear)



**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

Outlines and Dimensions: See page 9-85 Accessories: See page 9-110 to 9-119 Technical Data: See page 9-127 to 9-133

Rev. 1/08 Prices and data subject to change without notice

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Control Catalog

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# Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Selector Switches C-2000

3-Position Lever Operated Selector Switches Non-Illuminated 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

### **Black Lever 3-Position**

3-PositionRound Polished ChromeMaintainedZ, E, L, UP9CSV\$0N\$14.503-PositionRound Satin ChromeMaintainedZ, E, L, UP9MSV\$0N\$14.503-PositionRound Engineered PlasticMaintainedZ, E, L, UP9XSV\$0N\$14.503-PositionRound Polished ChromeSpring Return L → CZ, E, L, UP9CSV\$1N\$16.503-PositionRound Satin ChromeSpring Return L → CZ, E, L, UP9MSV\$1N\$16.503-PositionRound Engineered PlasticSpring Return L → CZ, E, L, UP9XSV\$1N\$16.503-PositionRound Polished ChromeSpring Return C ← RZ, E, L, UP9CSV\$5N\$16.503-PositionRound Satin ChromeSpring Return C ← RZ, E, L, UP9MSV\$5N\$16.503-PositionRound Engineered PlasticSpring Return C ← RZ, E, L, UP9XSV\$5N\$16.503-PositionRound Polished ChromeSpring Return L → C ← RZ, E, L, UP9XSV\$5N\$16.503-PositionRound Satin ChromeSpring Return L → C ← RZ, E, L, UP9CSV\$3N\$16.503-PositionRound Satin ChromeSpring Return L → C ← RZ, E, L, UP9MSV\$3N\$16.503-PositionRound Engineered PlasticSpring Return L → C ← RZ, E, L, UP9MSV\$3N\$16.503-PositionRound Engineered PlasticSpring Return L → C ← RZ, E, L, UP9MSV\$3N\$16.50	Position Type	Operator Style	Release Type	Cam Codes	Product Number	List Price GO-10GC
3-Position Round Engineered Plastic Maintained Z, E, L, U P9XSV‡0N \$14.50 3-Position Round Polished Chrome Spring Return L → C Z, E, L, U P9CSV‡1N \$16.50 3-Position Round Satin Chrome Spring Return L → C Z, E, L, U P9MSV‡1N \$16.50 3-Position Round Engineered Plastic Spring Return L → C Z, E, L, U P9MSV‡1N \$16.50 3-Position Round Polished Chrome Spring Return C ← R Z, E, L, U P9CSV‡5N \$16.50 3-Position Round Satin Chrome Spring Return C ← R Z, E, L, U P9MSV‡5N \$16.50 3-Position Round Engineered Plastic Spring Return C ← R Z, E, L, U P9MSV‡5N \$16.50 3-Position Round Engineered Plastic Spring Return C ← R Z, E, L, U P9MSV‡5N \$16.50 3-Position Round Polished Chrome Spring Return L → C ← R Z, E, L, U P9CSV‡3N \$16.50 3-Position Round Satin Chrome Spring Return L → C ← R Z, E, L, U P9MSV‡3N \$16.50	3-Position	Round Polished Chrome	Maintained	Z, E, L, U	P9CSV‡0N	\$14.50
3-Position Round Polished Chrome Spring Return L → C Z, E, L, U P9CSV $^{\ddagger}$ 1N \$16.50 3-Position Round Satin Chrome Spring Return L → C Z, E, L, U P9MSV $^{\ddagger}$ 1N \$16.50 3-Position Round Engineered Plastic Spring Return L → C Z, E, L, U P9MSV $^{\ddagger}$ 1N \$16.50 3-Position Round Polished Chrome Spring Return C ← R Z, E, L, U P9CSV $^{\ddagger}$ 5N \$16.50 3-Position Round Satin Chrome Spring Return C ← R Z, E, L, U P9MSV $^{\ddagger}$ 5N \$16.50 3-Position Round Engineered Plastic Spring Return C ← R Z, E, L, U P9MSV $^{\ddagger}$ 5N \$16.50 3-Position Round Engineered Plastic Spring Return C ← R Z, E, L, U P9XSV $^{\ddagger}$ 5N \$16.50 3-Position Round Polished Chrome Spring Return L → C ← R Z, E, L, U P9CSV $^{\ddagger}$ 3N \$16.50 3-Position Round Satin Chrome Spring Return L → C ← R Z, E, L, U P9MSV $^{\ddagger}$ 3N \$16.50	3-Position	Round Satin Chrome	Maintained	Z, E, L, U	P9MSV‡0N	\$14.50
3-Position Round Satin Chrome Spring Return L → C Z, E, L, U P9MSV $\ddagger$ 1N \$16.50 3-Position Round Engineered Plastic Spring Return L → C Z, E, L, U P9XSV $\ddagger$ 1N \$16.50 3-Position Round Polished Chrome Spring Return C ← R Z, E, L, U P9CSV $\ddagger$ 5N \$16.50 3-Position Round Satin Chrome Spring Return C ← R Z, E, L, U P9MSV $\ddagger$ 5N \$16.50 3-Position Round Engineered Plastic Spring Return C ← R Z, E, L, U P9XSV $\ddagger$ 5N \$16.50 3-Position Round Polished Chrome Spring Return L → C ← R Z, E, L, U P9CSV $\ddagger$ 3N \$16.50 3-Position Round Polished Chrome Spring Return L → C ← R Z, E, L, U P9MSV $\ddagger$ 3N \$16.50 3-Position Round Satin Chrome Spring Return L → C ← R Z, E, L, U P9MSV $\ddagger$ 3N \$16.50	3-Position	Round Engineered Plastic	Maintained	Z, E, L, U	P9XSV‡0N	\$14.50
3-PositionRound Engineered PlasticSpring Return L → CZ, E, L, UP9XSV $\ddagger$ 1N\$16.503-PositionRound Polished ChromeSpring Return C ← RZ, E, L, UP9CSV $\ddagger$ 5N\$16.503-PositionRound Satin ChromeSpring Return C ← RZ, E, L, UP9MSV $\ddagger$ 5N\$16.503-PositionRound Engineered PlasticSpring Return C ← RZ, E, L, UP9MSV $\ddagger$ 5N\$16.503-PositionRound Polished ChromeSpring Return L → C ← RZ, E, L, UP9CSV $\ddagger$ 3N\$16.503-PositionRound Satin ChromeSpring Return L → C ← RZ, E, L, UP9MSV $\ddagger$ 3N\$16.50	3-Position	Round Polished Chrome	Spring Return L → C	Z, E, L, U	P9CSV‡1N	\$16.50
3-PositionRound Polished ChromeSpring Return C ← RZ, E, L, UP9CSV $^{\ddagger}$ SN\$16.503-PositionRound Satin ChromeSpring Return C ← RZ, E, L, UP9MSV $^{\ddagger}$ SN\$16.503-PositionRound Engineered PlasticSpring Return C ← RZ, E, L, UP9MSV $^{\ddagger}$ SN\$16.503-PositionRound Polished ChromeSpring Return L → C ← RZ, E, L, UP9CSV $^{\ddagger}$ 3N\$16.503-PositionRound Satin ChromeSpring Return L → C ← RZ, E, L, UP9MSV $^{\ddagger}$ 3N\$16.50	3-Position	Round Satin Chrome	Spring Return L → C	Z, E, L, U	P9MSV‡1N	\$16.50
3-Position Round Satin Chrome Spring Return C ← R Z, E, L, U P9MSV $^{\ddagger}$ SN \$16.50 3-Position Round Engineered Plastic Spring Return C ← R Z, E, L, U P9XSV $^{\ddagger}$ SN \$16.50 3-Position Round Polished Chrome Spring Return L → C ← R Z, E, L, U P9CSV $^{\ddagger}$ 3N \$16.50 3-Position Round Satin Chrome Spring Return L → C ← R Z, E, L, U P9MSV $^{\ddagger}$ 3N \$16.50	3-Position	Round Engineered Plastic	Spring Return L → C	Z, E, L, U	P9XSV‡1N	\$16.50
3-Position Round Engineered Plastic Spring Return C ← R Z, E, L, U P9XSV $\ddagger$ 5N \$16.50 3-Position Round Polished Chrome Spring Return L → C ← R Z, E, L, U P9CSV $\ddagger$ 3N \$16.50 3-Position Round Satin Chrome Spring Return L → C ← R Z, E, L, U P9MSV $\ddagger$ 3N \$16.50	3-Position	Round Polished Chrome	Spring Return C ← R	Z, E, L, U	P9CSV‡5N	\$16.50
3-Position Round Polished Chrome Spring Return $L \rightarrow C \leftarrow R$ Z, E, L, U P9CSV $^{\dagger}$ 3N \$16.50 3-Position Round Satin Chrome Spring Return $L \rightarrow C \leftarrow R$ Z, E, L, U P9MSV $^{\dagger}$ 3N \$16.50	3-Position	Round Satin Chrome	Spring Return C ← R	Z, E, L, U	P9MSV‡5N	\$16.50
3-Position Round Satin Chrome Spring Return $L \rightarrow C \leftarrow R$ Z, E, L, U P9MSV $\ddagger$ 3N \$16.50	3-Position	Round Engineered Plastic	Spring Return C ← R	Z, E, L, U	P9XSV‡5N	\$16.50
	3-Position	Round Polished Chrome	Spring Return L → C ← R	Z, E, L, U	P9CSV‡3N	\$16.50
3-Position Round Engineered Plastic Spring Return L → C ← R Z, E, L, U P9XSV‡3N \$16.50	3-Position	Round Satin Chrome	Spring Return L → C ← R	Z, E, L, U	P9MSV‡3N	\$16.50
	3-Position	Round Engineered Plastic	Spring Return L → C ← R	Z, E, L, U	P9XSV‡3N	\$16.50

Replace double dagger (‡) in product number with cam code from cams table below.

### Cams

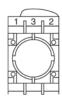
Choose desired cam. Note selection and position of contact block(s).

						Quick-Co	nnect
				Screw Termina	l Contact Block	Terminal Cor	ntact Block
‡Cam Code	lacksquare	lacksquare	lacksquare	Position 1	Position 2	Position 1	Position 2
Z	0	0	Χ	P9B10VN	-	P9B10FN	-
	X	0	0	_	P9B10VN		P9B10FN
	X	Χ	0	P9B01VN	_	P9B01FN	
	0	X	Χ	_	P9B01VN		P9B01FN
	0	0	X	P9B11VN	D0D11VN		
	X	X	0	LADITAIN			
	X	0	0	_	– P9B11VN		_
	0	Χ	Χ		1 3011 111		
E	0	0	X	_	P9B01VN		P9B01FN
	0	X	0	P9B10VN	_	P9B10FN	_
	0	0	X	P9B11VN			
	0	0	Χ	LADIIAM			
L	X	0	0	_	P9B10VN		P9B10FN
	0	Χ	0	P9B01VN	<b>*</b> •	P9B01FN	_
	X	0	0	P9B11VN		_	_
-	0	Χ	0	LABITAIN			
U	0	0	X	P9B11VN		_	_
	0	Χ	0	1 2011/1/	_		
	0	0	X	_	P9B11VN	_	_
	X	0	0		JULIAN		



Section 9

**Operator Positions** 



Contact Block Positions (viewed from rear)

Outlines and Dimensions: See page 9-85 Accessories: See page 9-110 to 9-119 Technical Data: See page 9-127 to 9-133

www.geelectrical.com

# Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Selector Switches

# C-2000

4-Position Knob and Lever Operated Selector Switches Non-Illuminated 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

### **Selection Process**

Select						
operator	+	Select contact block(s)	+	Select nameplate, if required,	=	Complete Unit
below		from page 9-101		from pages 9-103 to 9-105		









**Position Selector Switches** 

### **Knob 4-Position**

Position Type	Operator Style	Release Type	Cam Code	Product Number	List Price GO-10GC
4-Position	Round Polished Chrome	Maintained	×	P9CSMX0*	\$14.50
4-Position	Round Satin Chrome	Maintained	Х	P9MSMX0*	\$14.50
4-Position	Round Engineered Plastic	Maintained	Х	P9XSMX0*	\$14.50
4-Position	Square Engineered Plastic	Maintained	Х	P9SSMX0*	\$14.50
4-Position	Round Polished Chrome	Spring Return R ← 2R	Х	P9CSMX5*	\$18.50
4-Position	Round Satin Chrome	Spring Return R ← 2R	Х	P9MSMX5*	\$18.50
4-Position	Round Engineered Plastic	Spring Return R ← 2R	Х	P9XSMX5*	\$18.50
4-Position	Square Engineered Plastic	Spring Return R ← 2R	Х	P9SSMX5*	\$18.50

# **Black Lever 4-Position**

4-Position         Round Polished Chrome         Maintained         8         P9CSVXON           4-Position         Round Satin Chrome         Maintained         X         P9MSVXON           4-Position         Round Engineered Plastic         Maintained         X         P9SXVXON	
	\$14.50
4-Position Round Engineered Plastic Maintained X P9SXVX0N	\$14.50
	\$14.50
4-Position Round Polished Chrome Spring Return R ← 2R X P9CSVX5N	\$18.50
4-Position Round Satin Chrome Spring Return R ← 2R X P9MSVX5N	\$18.50
4-Position Round Engineered Plastic Spring Return R ← 2R X P9XSVX5N	\$18.50

### Cams

Note selection and position of contact blocks

	$\bigcirc$				Screw Terminal Contact Block		
Cam Code	$\overline{C}$	$\odot$		J	Position 1	Position 2	
X	0	X	0	0	P9B11VN	_	
	0	0	0	X	PADIIAM		
	0	0	X	0		P9B11VN	
	X	0	0	0		PADITAIN	



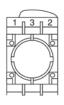
**Operator Positions** 

Replace asterisk (\*) in product number with color code from colors table below.

۴.	$\overline{}$	_	ı .	

Colors	Black	Red	Green	Yellow	Blue	No Knob <sup>1</sup>
*Color code	N	R	V	G	L	0

<sup>&</sup>lt;sup>1</sup>Subtract **\$3.00** from **List Price, GO-10GC**. for selector switches ordered without knobs. Color knobs are listed separately on page 9-111.



Contact Block Positions (viewed from rear)



**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

Outlines and Dimensions: See page 9-85 Accessories: See page 9-110 to 9-119 Technical Data: See page 9-127 to 9-133

Rev. 1/08
Prices and data subject to change without notice

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**Control Catalog** 

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# Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Selector Switches C-2000

5-Position Knob and Lever Operated Selector Switches Non-Illuminated 600 VAC Max., 300 VCD Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

### **Selection Process**

Select						
operator	+	Select contact block(s)	+	Select nameplate, if required, from pages 9-103 to 9-105	=	Complete Unit
below		from page 9-101		110111 pages 9-103 to 9-105		











Section 9

### **Knob 5-Position**

Position Type	Operator Style	Release Type	Cam Code	Product Number	List Price GO-10GC
5-Position	Round Polished Chrome	Maintained	X, Y	P9CSM‡0*	\$26.00
5-Position	Round Satin Chrome	Maintained	X, Y	P9MSM‡0*	\$26.00
5-Position	Round Engineered Plastic	Maintained	X, Y	P9XSM‡0*	\$26.00
5-Position	Square Engineered Plastic	Maintained	X, Y	P9SSM‡0*	\$26.00

# 5-Position Selector Switches

# **Black Lever 5-Position**

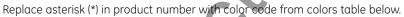
Position Type	Operator Style	Release Type	Cam Code	Product Number	List Price GO-10GC
5-Position	Round Polished Chrome	Maintained	X, Y	P9CSV‡0N	\$26.00
5-Position	Round Satin Chrome	Maintained	X, Y	P9MSV‡0N	\$26.00
5-Position	Round Engineered Plastic	Maintained	X. Y	P9XSV±0N	\$26.00

Replace double dagger (‡) in maintained product number with cam code from came table below.

### Cams

Choose desired cam. Note selection and position of contact block(s).

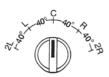
						Screw Termin	al Contact Block
‡Cam Code						Position 1	Position 2
W	$\odot$	lacktriangle	•	<b>(</b>	$\Theta$	P9B11VN	
	0	0	X 0	0	0 X	_	P9B11VN
Y	0 0	X 0	0	0	X	P9B11VN	-
	0 X	0	0	X	0	-	P9B11VN



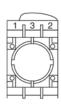
# \*Colors

Colors	Black	Red	Green	Yellow	Blue	No Knob <sup>1</sup>
*Color code	N	R	V	G	L	0

<sup>&</sup>lt;sup>1</sup>Subtract **\$3.00** from **List Price, GO-10GC**. for selector switches ordered without knobs. Color knobs are listed separately on page 9-111.



**Operator Positions** 



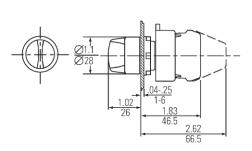
Contact Block Positions (viewed from rear)

Outlines and Dimensions: See page 9-85 Accessories: See page 9-110 to 9-119 Technical Data: See page 9-127 to 9-133

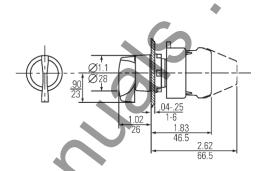
# Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Selector Switches

# C-2000

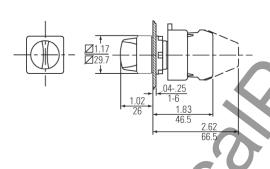
Knob and Lever Operated
Non-Illuminated
Outlines and Dimensions (mm) (For Estimating Only)
600 VAC Max., 300 VDC Max.
10 Amps Continuous AC, 2.5 Amps Continuous DC



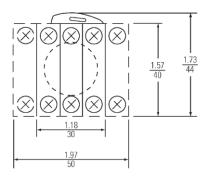
**Round Knob Selector Switch** 



Round Lever Selector Switch



Square Knob Selector, Switch



Typical Back Side View

# **Pilot and Signaling Devices** Heavy-Duty 22.5 mm Watertight/Oiltight Selector Switches C-2000

2-Position Key Operated Selector Switches Non-Illuminated 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

# **Selection Process**

Select operator below	+	Select contact block(s) from page 9-101	+	Select nameplate, if required, from pages 9-103 to 9-105	=	Complete Unit
		7				



y Selector Switches

Section 9

# **Key 2-Position**

					List Price
Position Type	Release Type	Cam Code	Key Removal	Product Number	GO-10GC
2-Position	Maintained	D	Left	P9#SCD0A†	\$43.50
2-Position	Maintained	D	Right	P9#SCD0E†	\$43.50
2-Position	Maintained	D	Left and Right	P9#SCD0K†	\$43.50
2-Position	Maintained	1	Center	P9#SCIOC†	\$43.50
2-Position	Maintained	I	Right	P9#SCI0E†	\$43.50
2-Position	Maintained	I	Center and Right	P9#SCION†	\$43.50
2-Position	Maintained	Н	Left	P9#SCH0A†	\$43.50
2-Position	Maintained	Н	Center	P9#SCH0C†	\$43.50
2-Position	Maintained	Н	Left and Center	P9#SCH0H†	\$43.50
2-Position	Spring Return L → C	Н	Center	P9#SCH1C†	\$56.50
2-Position	Spring Return C ← R	D	Left	P9#SCD5A†	\$56.50
2-Position	Spring Return C ← R	I	Center	P9#SCI5C†	\$56.50

Replace pound sign (#) in product number with style code from Styles table,

#Jtyle3					
Style	Polished Chrome	Satin Chrome	Round Engineered Plastic	Squar	e Engineered Plastic
#Style Code	С	М	X		S

Note position of contact block for cam selection.

						Quick-t	Connect
				Screw Terminal C	ontact Block	Terminal C	ontact Block
Cam Code	$\odot$	$\odot$	$\odot$	Position 1	Position 2	Position 1	Position 2
	0	_	Χ	_	P9B10VN	_	P9B10FN
D	X	_	0	P9B01VN		P9B01FN	_
	0	_	Χ	DOD11/NI			
	X	_	0	P9B11VN	-	_	_
	_	0	Х	-	P9B10VN	_	P9B10FN
1		Х	0	P9B01VN	_	P9B01FN	_
	_	0	Χ	00011111			
	_	X	0	P9B11VN	_	_	_
	X	0	_		P9B10VN	_	P9B10FN
Н	0	Х	_	P9B01VN	_	P9B01FN	_
	X	0	- 🛦	2222110			
	0	X	-	P9B11VN	_	_	_

Replace dagger (†) in product number with key code from Keys table.

TKeys												
Key	Std.		Special <sup>1</sup>									
Number	3095	9901	9902	9903	9904	9905	9910	9916	9919	3353	R455 (Ronis)	
†Key Code	95	01	02	03	04	05	10	16	19	53	55	
Key			Colored <sup>1</sup>									
Number	73033	33 (Yellow)		73034 (Black)		73037 (F	Red)	73038	73038 (Blue)		40 (Orange)	
†Key Code		33		34		37		38	3	40		

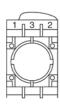
<sup>1</sup>To order with other than standard key code (95), add **\$4.00** to **List Price, GO-10GC**.

Minimum quantity order on Key Codes 95, 55 and 33 is one; for all others minimum quantity order is ten.





**Operator Positions** 



**Contact Block Positions** (viewed from rear)



Outlines and Dimensions: See page 9-90 Accessories: See page 9-110 to 9-119 Technical Data: See page 9-127 to 9-133

# Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Selector Switches

# C-2000

3-Position Key Operated Selector Switches Non-Illuminated 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

# **Selection Process**

operator + Select contact block(s) from + Select nameplate, if required, = Complete Unit below page 9-101 from pages 9-103 to 9-105	it
below page 9-101 from pages 9-103 to 9-105	









### **Key Operated 3-Position**

Position Type	Release Type	Cam Code	Key Removal	Product Number	List Price GO-10G0
3-Position	Maintained	Z	Left	P9#SCZ0A†	\$43.50
3-Position	Maintained	Z	Center	P9#SCZOC†	\$43.50
3-Position	Maintained	Z	Right	P9#SCZ0E†	\$43.50
3-Position	Maintained	Z	Left and Center	P9#SCZ0H†	\$43.50
3-Position	Maintained	Z	Left and Right	P9#SCZ0K†	\$43.50
-Position	Maintained	Z	Center and Right	P9#SCZON†	\$43.50
3-Position	Maintained	Z	Left, Center and Right	P9#SCZ0T†	\$43.50
-Position	Maintained	E	Left	P9#SCE0A†	\$43.50
-Position	Maintained	E	Center	P9#SCEOC†	\$43.50
-Position	Maintained	E	Right	P9#SCE0E†	\$43.50
-Position	Maintained	E	Left and Center	P9#SCEOH†	\$43.50
-Position	Maintained	E	Left and Right	P9#SCEOK†	\$43.50
-Position	Maintained	E	Center and Right	P9#SCEON†	\$43.50
-Position	Maintained	E	Left, Center and Right	P9#SCEOT†	\$43.50
-Position	Maintained	L	Left Left	P9#SCLOA†	\$43.50
-Position	Maintained	L		P9#SCLOC†	
		L	Center	P9#SCLOCT P9#SCLOE†	\$43.50
-Position	Maintained	L	Right	P9#SCLOET P9#SCLOH†	\$43.50
-Position -Position	Maintained  Maintained	L	Left and Center Left and Right	P9#SCLOHT P9#SCLOK†	\$43.50
-Position -Position	Maintained  Maintained	<u> </u>	Center and Right	P9#SCLOK† P9#SCLON†	\$43.50 \$43.50
-Position	Maintained	L	Left, Center and Right	P9#SCLOT†	\$43.50
-Position	Maintained	U	Left	P9#SCU0A†	\$43.50
-Position	Maintained	U	Center	P9#SCU0C†	\$43.50
-Position	Maintained	U	Right	P9#SCU0E†	\$43.50
-Position	Maintained	U	Left and Center	P9#SCU0H†	\$43.50
-Position	Maintained	U	Left and Right	P9#SCU0K†	\$43.50
-Position	Maintained	U	Center and Right	P9#SCU0N†	\$43.50
-Position	Maintained	U	Left, Center and Right	P9#SCU0T†	\$43.50
-Position	Spring Return L → C	Z	Center	P9#SCZ1C†	\$56.50
-Position	Spring Return L → C	Z	Right	P9#SCZ1E†	\$56.50
-Position	Spring Return L → C	Z	Center and Right	P9#SCZ1N†	\$56.50
-Position	Spring Return L → C	E	Center	P9#SCE1C†	\$56.50
-Position	Spring Return L → C	E	Right	P9#SCE1E†	\$56.50
-Position	Spring Return L → C	E	Center and Right	P9#SCE1N†	\$56.50
-Position	Spring Return L → C	L	Center	P9#SCL1C†	\$56.50
-Position	Spring Return L → C	L	Right	P9#SCL1E†	\$56.50
-Position	Spring Return L → C	L	Center and Right	P9#SCL1N†	\$56.50
-Position	Spring Return L → C	U	Center	P9#SCU1C†	\$56.50
-Position	Spring Return L → C	U	Right	P9#SCU1E†	\$56.50
-Position	Spring Return L → C	U	Center and Right	P9#SCU1N†	\$56.50
-Position	Spring Return C ← R	Z	Left	P9#SCZ5A†	\$56.50
-Position	Spring Return C ← R	Z	Center	P9#SCZ5C†	\$56.50
-Position	Spring Return C ← R	Z	Left and Center	P9#SCZ5H†	\$56.50
-Position	Spring Return C ← R	E	Left	P9#SCE5A†	\$56.50
-Position	Spring Return C ← R	E	Center	P9#SCE5C†	\$56.50
-Position	Spring Return C ← R	E	Left and Center	P9#SCE5H†	\$56.50
-Position	Spring Return € ← R	L	Left	P9#SCL5A†	\$56.50
-Position	Spring Return C ← R	L	Center	P9#SCL5C†	\$56.50
-Position	Spring Return C ← R	L	Left and Center	P9#SCL5H†	\$56.50
-Position	Spring Return C ← R	U	Left	P9#SCU5A†	\$56.50
-Position	Spring Return C ← R	U	Center	P9#SCU5C†	\$56.50
-Position	Spring Return C ← R	U	Left and Center	P9#SCU5H†	\$56.50
-Position	Spring Return L → C ← R	Z	Center	P9#SCZ3C†	\$56.50
-Position	Spring Return L → C ← R	E	Center	P9#SCE3C†	\$56.50
-Position	Spring Return L → C ← R	L	Center	P9#SCL3C†	\$56.50
-Position	Spring Return L → C ← R	U	Center	P9#SCU3C†	\$56.50

Replace pound sign (#) in product number with style code from Styles table on page 9-88. Replace dagger (†) in product number with key code from Keys table on page 9-88.



**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

Outlines and Dimensions: See page 9-90 Accessories: See page 9-110 to 9-119 Technical Data: See page 9-127 to 9-133

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www.geelectrical.com Control Catalog



3-Position Key Selector Switches

Rev. 1/08 Prices and data subject to change without notice

# **Pilot and Signaling Devices** Heavy-Duty 22.5 mm Watertight/Oiltight Selector Switches C-2000

**3-Position Key Operated Selector Switches** Non-Illuminated 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

Style	Polished Chrome	Satin Chrome	Round Engineered Plastic	Square Engineered Plastic
#Style Code	С	М	X	S

Note selection and position of contact block(s) for cam selection.

Cam Code						Quick-0	Connect	
(6th digit in	$\bullet$			Screw Termino	ıl Contact Block	Terminal Co	ontact Block	
product number)	$\cup$	$\overline{}$		Position 1	Position 2	Position 1	Position 2	
Z	0	0	Χ	P9B10VN	_	P9B10FN	_	
	X	0	0	_	P910VN	_	P9B10FN	
	X	Х	0	P9B01VN	_	P9B01FN	_	
	0	Х	Χ	_	P9B01VN	_	P9B01FN	
	0	0	Х	DOD111/N				
	X	X	0	P9B11VN	_	_	_	
	X	0	0		D0D111/A			
	0	X	Χ	_	P9B11VN	_	_	
Ē	0	0	Χ	_	P9B01VN	_	P9B01FN	
	0	Х	0	P9B10VN	_	P9B10FN	_	
	0	0	Χ	DOD11\/N				
	0	X	0	P9B11VN	_	_		
-	X	0	0	_	P9B10VN	-	P9B10FN	
	0	Х	0	P9B01VN	_	P9B01FN	-	
	X	0	0	000111/01				
	0	X	0	P9B11VN	_	_		
U	0	0	Χ					
	0	Х	0	P9B11VN	_	- 🔎	-	
	_							

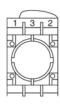
t	κ	ρ	v	5

1																
	Std.					Sp	ecial <sup>1</sup>						C	olored <sup>1</sup>		
Key											R455	73033	73034	73037	73038	73040
Number	3095	9901	9902	9903	9904	9905	9910	9916	9919	3353	(Ronis)	(Yellow)	(Black)	(Red)	(Blue)	(Orange)
†Key	95	01	02	03	04	05	10	16	19	53	55	33	34	37	38	40
Code																

 $<sup>^1</sup>$ To order with other than standard key code (95), add \$4.00 to List Price, GO-10GC. Minimum quantity order on Key Codes 95, 55 and 33 is one; for all others minimum quantity order is te



Section 9



**Contact Block Positions** (viewed from rear)

Product Number Selection Instructions: See page 9-87

# Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Selector Switches

# C-2000

4-Position Key Operated Selector Switches Non-Illuminated 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

### **Selection Process**

Select						
operator	+	Select contact block(s)	+	Select nameplate, if required,	=	Complete Unit
below		from page 9-101		from pages 9-103 to 9-105		









# 3343

ion Key Selector Switches

# **Key Operated 4-Position**

					List Price
Position Type	Release Type	Cam Code	Key Removal	Product Number	GO-10GC
4-Position	Maintained	X	2 Left	P9#SCX0A†	\$53.00
4-Position	Maintained	X	Left	P9#SCX0B†	\$53.00
4-Position	Maintained	Χ	Right	P9#SCX0D†	\$53.00
4-Position	Maintained	Χ	2 Right	P9#SCX0E†	\$53.00
4-Position	Maintained	Χ	2 Left and Left	P9#SCX0F†	\$53.00
4-Position	Maintained	X	2 Left and Right	P9#SCX0J†	\$53.00
4-Position	Maintained	Χ	2 Left and 2 Right	P9#SCX0K†	\$53.00
4-Position	Maintained	Χ	Left and Right	P9#SCX0L†	\$53.00
4-Position	Maintained	X	Left and 2 Right	P9#SCX0M†	\$53.00
4-Position	Maintained	X	Right and 2 Right	P9#SCX0P†	\$53.00
4-Position	Maintained	X	2 Left, Left and Right	P9#SCX0R†	\$53.00
4-Position	Maintained	X	2 Left, Left and 2 Right	P9#\$CX0S†	\$53.00
4-Position	Maintained	X	2 Left, Right and 2 Right	P9#SCX0U†	\$53.00
4-Position	Maintained	X	Left, Right and 2 Right	P9#SCX0V†	\$53.00
4-Position	Maintained	X	2 Left, Left, Right and 2 Right	P9#SCX0Z†	\$53.00
4-Position	Spring Return 2R → R	X	2 Left	P9#SCX5A†	\$66.00
4-Position	Spring Return 2R → R	X	Left	P9#SCX5B†	\$66.00
4-Position	Spring Return 2R → R	X	Right	P9#SCX5D†	\$66.00
4-Position	Spring Return 2R → R	X	2 Left and Left	P9#SCX5F†	\$66.00
4-Position	Spring Return 2R → R	Х	2 Left and Right	P9#SCX5J†	\$66.00
4-Position	Spring Return 2R → R	Х	Left and Right	P9#SCX5L†	\$66.00
4-Position	Spring Return 2R → R	X	2 Left, Left and Right	P9#SCX5R†	\$66.00

Replace pound sign (#) in product number with style code from Styles table.

# #Styles

Style	Polished Chrome	Satin Chrome	Round Engineered Plastic	Square Engineered Plastic
#Style Code	С	М	X	S

### Cams

Note selection and position of contact block(s).

				Screw Terminal Contact Block		
Cam Code				Position 1	Position 2	
X	0 X	0	0	DOD11\/N		
	0 0	0	X	P9B11VN	_	
	0 0	Х	0		P9B11VN	
	Χ 0.	0	0	_	PARTINI	

Replace dagger (†) in product number with key code from Keys table.

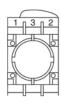
# †Keys

1																
	Std.			Special <sup>1</sup>								С	olored <sup>1</sup>			
Key											R455	73033	73034	73037	73038	73040
Number	3095	9901	9902	9903	9904	9905	9910	9916	9919	3353	(Ronis)	(Yellow)	(Black)	(Red)	(Blue)	(Orange)
†Key																
Code 👚	95	01	02	03	04	05	10	16	19	53	55	33	34	37	38	40

<sup>&</sup>lt;sup>1</sup>To order with other than standard key code (95), add **\$4.00** to **List Price, GO-10GC**. Minimum quantity order on Key Codes 95, 55 and 33 is one; for all others minimum quantity order is ten.



**Operator Positions** 



Contact Block Positions (viewed from rear)



**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

Outlines and Dimensions: See page 9-90 Accessories: See page 9-110 to 9-119 Technical Data: See page 9-127 to 9-133

Rev. 1/08 Prices and data subject to change without notice

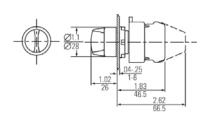
www.geelectrical.com

**Control Catalog** 

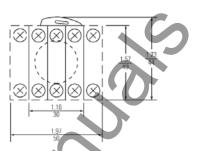
9-89

# Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Selector Switches C-2000

Key Operated
Non-Illuminated
Outlines and Dimensions (in: mm) (For Estimating Only)
600 VAC Max., 300 VDC Max.
10 Amps Continuous AC, 2.5 Amps Continuous DC

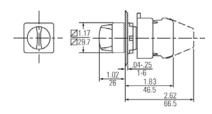


Round Key Selector Switch



Section 9

Typical Back Side View



**Square Key Selector Switch** 

# Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Selector Switches

# C-2000

2- and 3-Position Knob Operated Selector Switches Illuminated 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

# **Selection Process**

Select		Select power		Select contact		Select nameplate,		
operator	+	supply from pages	+	block from	+	if required, from	=	Complete unit
below		9-100 & 9-101		page 9-101		pages 9-103 to 9-105		











### **Knob Operated**

Position Type	Operator Style	Release Type	Cam Code	Product Number	List Price GO-10GC
2-Position	Round Polished Chrome	Maintained	D	P9CSLD0*	\$18.50
2-Position	Round Satin Chrome	Maintained	D	P9MSLD0*	\$18.50
2-Position	Round Engineered Plastic	Maintained	D	P9XSLD0*	\$18.50
2-Position	Square Engineered Plastic	Maintained	D	P9SSLD0*	\$18.50
3-Position	Round Polished Chrome	Maintained	Z	P9CSLZ0*	\$18.50
3-Position	Round Satin Chrome	Maintained	Z	P9MSLZ0*	\$18.50
3-Position	Round Engineered Plastic	Maintained	Z	P9XSLZ0*	\$18.50
3-Position	Square Engineered Plastic	Maintained	Z	P9SSLZ0*	\$18.50
3-Position	Round Polished Chrome	Spring Return L → C	Z	P9CSLZ1*	\$26.00
3-Position	Round Satin Chrome	Spring Return L → C	Z	P9MSLZ1*	\$26.00
3-Position	Round Engineered Plastic	Spring Return L → C	Z	P9XSLŽ1*	\$26.00
3-Position	Square Engineered Plastic	Spring Return L → C	Z	P9SSLZ1*	\$26.00
3-Position	Round Polished Chrome	Spring Return C ← R	Z	P9CSLZ5*	\$26.00
3-Position	Round Satin Chrome	Spring Return C ← R	Z	P9MSLZ5*	\$26.00
3-Position	Round Engineered Plastic	Spring Return C ← R	Z	P9XSLZ5*	\$26.00
3-Position	Square Engineered Plastic	Spring Return C ← R	Z	P9SSLZ5*	\$26.00
3-Position	Round Polished Chrome	Spring Return L → C ← R	Z	P9CSLZ3*	\$26.00
3-Position	Round Satin Chrome	Spring Return L → C ← R	Z	P9MSLZ3*	\$26.00
3-Position	Round Engineered Plastic	Spring Return L → C ← R	Z	P9XSLZ3*	\$26.00
3-Position	Square Engineered Plastic	Spring Return L → C ← R	Z	P9SSLZ3*	\$26.00

Replace asterisk (\*) in product number with color code from Colors table below.

### \*Colors

Color	Red	Green	Yellow	Blue	White	Orange	Clear	No Knob <sup>1</sup>
*Color Code	R	V	G		В	Α	1	0

<sup>&</sup>lt;sup>1</sup>When ordering operator without knob, deduct **\$3.00** from **List Price, GO-10GC.** Color lenses are listed separately on page 9-112.

### Cams

Note selection and position of contact block(s) according to operator type.

# 2-Position

						Quick-C	Lonnect
	$\bullet$			Screw Termina	l Contact Block	Terminal Co	ontact Block
‡Cam Code				Position 1	Position 2	Position 1	Position 2
	0	_	X	_	P9B10VN	_	P9B10FN
D	X		0	P9B01VN	_	P9B01FN	-
	0	A - V	X	00011101	_	_	_
	X		0	P9B11VN			

Note selection and position of contact block(s) according to operator type.

# **3-Position**

			_			Quick-0	Connect
	$\bullet$			Screw Termina	l Contact Block	Terminal Co	ontact Block
‡Cam Code				Position 1	Position 2	Position 1	Position 2
	0	0	X	P9B10VN	_	P9B10FN	_
<b>A</b>	X	0	0	_	P9B10VN	_	P9B10FN
	X	Χ	0	P9B01VN	_	P9B01FN	_
Z	0	Х	Χ	_	P9B01VN	_	P9B01FN
	0	0	Χ	000111/01	_	_	_
	X	X	0	P9B11VN			
13	X	0	0		D0D111/N		
	0	X	Χ	_	P9B11VN	_	_
+Cam godo is 6th	digit of pr	oduct nu	mhar				



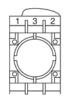
2- and 3-Position Illuminated Knob operated Selector Switches





Cam D

Operator Positions



Contact Block Positions (viewed from rear)



**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

Outlines and Dimensions: See page 9-92 Accessories: See page 9-110 to 9-119 Technical Data: See page 9-127 to 9-133

Rev. 1/08 Prices and data subject to change without notice

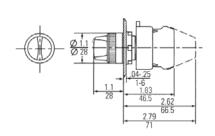
www.geelectrical.com

**Control Catalog** 

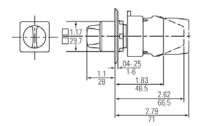
9-91

# Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Selector Switches C-2000

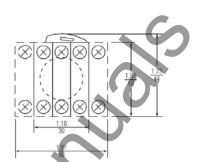
Knob Operated
Illuminated
Outlines and Dimensions (mm) (For Estimating Only)
600 VAC Max., 300 VDC Max.
10 Amps Continuous AC, 2.5 Amps Continuous DC



**Round Illuminated Knob Selector Switch** 



Square Illuminated Knob Selector Switch



Section 9

Typical Back Side View

# Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Pilot Lights

# C-2000

Standard 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC



# **Selection Process**

Select						
operator	+	Select power supply	+	Select nameplate, if required,	=	Complete Unit
below		from page 9-100 & 9-101		from pages 9-103 to 9-105		











andard Pilot Lights

**Standard Operators** 

Operator Style         Lens Type         Power Supply Type         Product Number         GO-10GC           Round Polished Chrome         Diffused         —         P9CL*D         \$6.00           Round Polished Chrome         Refracted         —         P9CL*R         \$6.00           Round Polished Chrome         Glass lens         —         P9CL*V         \$18.50           Round Polished Chrome         None         —         P9CL*0         \$5.00           Round Satin Chrome         Diffused         —         P9ML*D         \$6.00           Round Satin Chrome         Refracted         —         P9ML*D         \$6.00           Round Satin Chrome         Glass lens         —         P9ML*V         \$18.50           Round Satin Chrome         None         —         P9ML*V         \$18.50           Round Satin Chrome         None         —         P9ML*V         \$18.50           Round Satin Chrome         None         —         P9ML*V         \$18.50           Round Engineered Plastic         Diffused         —         P9ML*D         \$6.00           Round Engineered Plastic         Refracted         —         P9XL*R         \$6.00           Round Engineered Plastic         Diffused					List Price
Round Polished Chrome         Refracted         —         P9CL*R         \$6.00           Round Polished Chrome         Glass lens         —         P9CL*V         \$18.50           Round Polished Chrome         None         —         P9CL00         \$5.00           Round Satin Chrome         Diffused         —         P9ML*D         \$6.00           Round Satin Chrome         Refracted         —         P9ML*R         \$6.00           Round Satin Chrome         Glass lens         —         P9ML*V         \$18.50           Round Satin Chrome         None         —         P9ML*V         \$18.50           Round Satin Chrome         None         —         P9ML*V         \$18.50           Round Satin Chrome         None         —         P9ML*V         \$18.50           Round Engineered Plastic         Diffused         —         P9ML*D         \$6.00           Round Engineered Plastic         Rone         —         P9XL*D         \$6.00           Round Engineered Plastic         None         —         P9XL00         \$5.00           Square Engineered Plastic         Diffused         —         P9XL00         \$6.00           Square Engineered Plastic         None         —         P9XL00	Operator Style	Lens Type	Power Supply Type	Product Number	GO-10GC
Round Polished Chrome         Glass lens         —         P9CL*V         \$18.50           Round Polished Chrome         None         —         P9CL00         \$5.00           Round Satin Chrome         Diffused         —         P9ML*D         \$6.00           Round Satin Chrome         Refracted         —         P9ML*R         \$6.00           Round Satin Chrome         Glass lens         —         P9ML*V         \$18.50           Round Satin Chrome         None         —         P9ML*O         \$5.00           Round Engineered Plastic         Diffused         —         P9XL*D         \$6.00           Round Engineered Plastic         Refracted         —         P9XL*R         \$6.00           Round Engineered Plastic         None         —         P9XL*R         \$6.00           Square Engineered Plastic         None         —         P9XL*D         \$7.00           Square Engineered Plastic         None         —         P9SL00         \$6.00           Unibloc         Diffused         Full Voltage-120 V         P9XU*DD0¹         \$12.00           Unibloc         Refracted         Full Voltage-120 V         P9XU*RD1¹         \$23.00           Unibloc         Refracted         Resistor-120	Round Polished Chrome	Diffused	_	P9CL*D	\$6.00
Round Polished Chrome         None         —         P9CL00         \$5.00           Round Satin Chrome         Diffused         —         P9ML*D         \$6.00           Round Satin Chrome         Refracted         —         P9ML*R         \$6.00           Round Satin Chrome         Glass lens         —         P9ML*V         \$18.50           Round Satin Chrome         None         —         P9ML*0         \$5.00           Round Engineered Plastic         Diffused         —         P9XL*D         \$6.00           Round Engineered Plastic         Refracted         —         P9XL*R         \$6.00           Round Engineered Plastic         None         —         P9XL*Q         \$5.00           Square Engineered Plastic         Diffused         —         P9SL*D         \$7.00           Square Engineered Plastic         None         —         P9SL00         \$6.00           Unibloc         Diffused         Full Voltage-120 V         P9XU*DD0¹         \$12.00           Unibloc         Refracted         Full Voltage-120 V         P9XU*DR0¹         \$23.00           Unibloc         Refracted         Resistor-120 V         P9XU*DR0¹         \$23.00           Unibloc         None         Full Voltage	Round Polished Chrome	Refracted	_	P9CL*R	\$6.00
Round Satin Chrome         Diffused         —         P9ML*D         \$6.00           Round Satin Chrome         Refracted         —         P9ML*R         \$6.00           Round Satin Chrome         Glass lens         —         P9ML*V         \$18.50           Round Satin Chrome         None         —         P9ML00         \$5.00           Round Engineered Plastic         Diffused         —         P9XL*D         \$6.00           Round Engineered Plastic         None         —         P9XL*R         \$6.00           Round Engineered Plastic         None         —         P9XL00         \$5.00           Square Engineered Plastic         Diffused         —         P9SL*D         \$7.00           Square Engineered Plastic         None         —         P9SL*D         \$7.00           Square Engineered Plastic         None         —         P9SL00         \$6.00           Unibloc         Diffused         Full Voltage=120 V         P9XU*D00¹         \$12.00           Unibloc         Refracted         Full Voltage=120 V         P9XU*R0¹         \$23.00           Unibloc         Refracted         Resistor-120 V         P9XU*R0¹         \$23.00           Unibloc         None         Full Voltage=12	Round Polished Chrome	Glass lens	_	P9CL*V	\$18.50
Round Satin Chrome         Refracted         —         P9ML*R         \$6.00           Round Satin Chrome         Glass lens         —         P9ML*V         \$18.50           Round Satin Chrome         None         —         P9ML00         \$5.00           Round Engineered Plastic         Diffused         —         P9XL*D         \$6.00           Round Engineered Plastic         Refracted         —         P9XL*R         \$6.00           Round Engineered Plastic         None         —         P9XL*R         \$6.00           Square Engineered Plastic         Diffused         —         P9SL*D         \$7.00           Square Engineered Plastic         None         —         P9SL*D         \$6.00           Unibloc         Diffused         Full Voltage-120 V         P9XU*D0         \$6.00           Unibloc         Refracted         Full Voltage-120 V         P9XU*RD0¹         \$12.00           Unibloc         Diffused         Resistor-120 V         P9XU*RD1¹         \$23.00           Unibloc         Refracted         Resistor-120 V         P9XU*RN1¹         \$23.00           Unibloc         None         Full Voltage-120 V         P9XU*RN1¹         \$23.00	Round Polished Chrome	None	_	P9CL00	\$5.00
Round Satin Chrome         Glass lens         —         P9ML*V         \$18.50           Round Satin Chrome         None         —         P9ML00         \$5.00           Round Engineered Plastic         Diffused         —         P9XL*D         \$6.00           Round Engineered Plastic         Refracted         —         P9XL*R         \$6.00           Round Engineered Plastic         None         —         P9XL*0         \$5.00           Square Engineered Plastic         Diffused         —         P9SL*D         \$7.00           Square Engineered Plastic         None         —         P9SL*D         \$6.00           Unibloc         Diffused         Full Voltage-120 V         P9XU*DD0¹         \$12.00           Unibloc         Refracted         Full Voltage-120 V         P9XU*RD0¹         \$23.00           Unibloc         Refracted         Resistor-120 V         P9XU*RN¹         \$23.00           Unibloc         Refracted         Resistor-120 V         P9XU*RN¹         \$23.00           Unibloc         None         Full Voltage-120 V         P9XU*RN¹         \$23.00	Round Satin Chrome	Diffused	_	P9ML*D	\$6.00
Round Satin Chrome         None         —         P9ML00         \$5.00           Round Engineered Plastic         Diffused         —         P9XL*D         \$6.00           Round Engineered Plastic         Refracted         —         P9XL*R         \$6.00           Round Engineered Plastic         None         —         P9XL*D         \$5.00           Square Engineered Plastic         Diffused         —         P9SL*D         \$7.00           Square Engineered Plastic         None         —         P9SL00         \$6.00           Unibloc         Diffused         Full Voltage-120 V         P9XU*DD01         \$12.00           Unibloc         Refracted         Full Voltage-120 V         P9XU*RD1         \$23.00           Unibloc         Refracted         Resistor-120 V         P9XU*RN1         \$23.00           Unibloc         Refracted         Resistor-120 V         P9XU*RN1         \$23.00           Unibloc         None         Full Voltage-120 V         P9XU*DD01         \$11.00	Round Satin Chrome	Refracted	_	P9ML*R	\$6.00
Round Engineered Plastic         Diffused         —         P9XL*D         \$6.00           Round Engineered Plastic         Refracted         —         P9XL*R         \$6.00           Round Engineered Plastic         None         —         P9XL*D         \$5.00           Square Engineered Plastic         Diffused         —         P9SL*D         \$7.00           Square Engineered Plastic         None         —         P9SL00         \$6.00           Unibloc         Diffused         Full Voltage=120 V         P9XU*DD0*1         \$12.00           Unibloc         Refracted         Full Voltage=120 V         P9XU*RD0*1         \$23.00           Unibloc         Refracted         Resistor=120 V         P9XU*RD1*2         \$23.00           Unibloc         Refracted         Resistor=120 V         P9XU*RD1*3         \$23.00           Unibloc         None         Full Voltage=120 V         P9XU*DD0*1         \$11.00	Round Satin Chrome	Glass lens	_	P9ML*V	\$18.50
Round Engineered Plastic         Refracted         —         P9XL*R         \$6.00           Round Engineered Plastic         None         —         P9XL00         \$5.00           Square Engineered Plastic         Diffused         —         P9SL*D         \$7.00           Square Engineered Plastic         None         —         P9SL00         \$6.00           Unibloc         Diffused         Full Voltage-120 V         P9XU*DD01         \$12.00           Unibloc         Refracted         Full Voltage-120 V         P9XU*RD01         \$12.00           Unibloc         Diffused         Resistor-120 V         P9XU*RN1         \$23.00           Unibloc         Refracted         Resistor-120 V         P9XU*RRN1         \$23.00           Unibloc         None         Full Voltage-120 V         P9XU00001         \$11.00	Round Satin Chrome	None	_	P9ML00	\$5.00
Round Engineered Plastic         None         —         P9XL00         \$5.00           Square Engineered Plastic         Diffused         —         P9SL*D         \$7.00           Square Engineered Plastic         None         —         P9SL00         \$6.00           Unibloc         Diffused         Full Voltage-120 V         P9XU*DD01         \$12.00           Unibloc         Refracted         Full Voltage-120 V         P9XU*RD01         \$12.00           Unibloc         Diffused         Resistor-120 V         P9XU*DRN1         \$23.00           Unibloc         Refracted         Resistor-120 V         P9XU*RRN1         \$23.00           Unibloc         None         Full Voltage-120 V         P9XU00001         \$11.00	Round Engineered Plastic	Diffused	_	P9XL*D	\$6.00
Square Engineered Plastic         Diffused         —         P9SL*D         \$7.00           Square Engineered Plastic         None         —         P9SL00         \$6.00           Unibloc         Diffused         Full Voltage-120 V         P9XU*DD01         \$12.00           Unibloc         Refracted         Full Voltage-120 V         P9XU*RD01         \$12.00           Unibloc         Diffused         Resistor-120 V         P9XU*DRN1         \$23.00           Unibloc         Refracted         Resistor-120 V         P9XU*RRN1         \$23.00           Unibloc         None         Full Voltage-120 V         P9XU00001         \$11.00	Round Engineered Plastic	Refracted	_	P9XL*R	\$6.00
Square Engineered Plastic         None         —         P9SL00         \$6.00           Unibloc         Diffused         Full Voltage-120 V         P9XU*DD0¹         \$12.00           Unibloc         Refracted         Full Voltage-120 V         P9XU*RD0¹         \$12.00           Unibloc         Diffused         Resistor-120 V         P9XU*DRN¹         \$23.00           Unibloc         Refracted         Resistor-120 V         P9XU*RRN¹         \$23.00           Unibloc         None         Full Voltage-120 V         P9XU*0000¹         \$11.00	Round Engineered Plastic	None	_	P9XL00	\$5.00
Unibloc         Diffused         Full Voltage-120 V         P9X0-0001         \$12.00           Unibloc         Refracted         Full Voltage-120 V         P9XU*RD01         \$12.00           Unibloc         Diffused         Resistor-120 V         P9XU*DRN1         \$23.00           Unibloc         Refracted         Resistor-120 V         P9XU*RRN1         \$23.00           Unibloc         None         Full Voltage-120 V         P9XU00001         \$11.00	Square Engineered Plastic	Diffused	_	P9SL*D	\$7.00
Unibloc         Refracted         Full Voltage-120 V         P9XU*RD01         \$12.00           Unibloc         Diffused         Resistor-120 V         P9XU*DRN1         \$23.00           Unibloc         Refracted         Resistor-120 V         P9XU*RRN1         \$23.00           Unibloc         None         Full Voltage-120 V         P9XU00001         \$11.00	Square Engineered Plastic	None	_	P9SL00	\$6.00
Unibloc         Diffused         Resistor-120 V         P9XU*DRN¹         \$23.00           Unibloc         Refracted         Resistor-120 V         P9XU*RRN¹         \$23.00           Unibloc         None         Full Voltage-120 V         P9XU0000¹         \$11.00	Unibloc	Diffused	Full Voltage-120 V	P9XU*DD0 <sup>1</sup>	\$12.00
Unibloc         Refracted         Resistor-120 V         P9XU*RRN¹         \$23.00           Unibloc         None         Full Voltage-120 V         P9XU0000¹         \$11.00	Unibloc	Refracted	Full Voltage-120 V	P9XU*RD01	\$12.00
Unibloc         None         Full Voltage-120 V         P9XU00D01         \$11.00	Unibloc	Diffused	Resistor-120 V	P9XU*DRN1	\$23.00
	Unibloc	Refracted	Resistor-120 V	P9XU*RRN <sup>1</sup>	\$23.00
Unibloc None Resistor-120 V P9XU00RN <sup>1</sup> \$22.00	Unibloc	None	Full Voltage-120 V	P9XU00D01	\$11.00
	Unibloc	None	Resistor-120 V	P9XU00RN <sup>1</sup>	\$22.00

<sup>&</sup>lt;sup>1</sup>Available only as a pilot light, Unibloc combines an indicator light and power source in one unit, producing a savings for the customer. Full-voltage versions do not include lamp; select lamp from page 9-119. Resistor versions are 130V (ac/dc) and include BA9S 130 V/2W lamp.

Replace asterisk (\*) in product number with color code digit from Colors table below.

# \*Colors

Color	Red	Green	Yellow	Blue	White	Orange	Clear	
*Color Code	R	V	G	L	В	Α	1	



# Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Pilot Lights C-2000

C-2000 Push to Test

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

# **Selection Process**

Select		Select power		Select contact		Select nameplate,		
assembled	+	supply from pages	+	block from	+	if required, from	=	Complete unit
device below		9-100 & 9-101		page 9-101		pages 9-103 to 9-105		











### **Push to Test Operators**

				LIST Price
Terminal type	Power Supply Type	Operator Style	Product Number	GO-10GC
Screw Terminal	Full Voltage	Round Polished Chrome	P9CPL*SDN12NC†	\$48.50
Screw Terminal	Full Voltage	Round Satin Chrome	P9MPL*SDN12NC†	\$48.50
Screw Terminal	Full Voltage	Round Engineered Plastic	P9XPL*SDN12NC†	\$48.50
Screw Terminal	Full Voltage	Square Engineered Plastic	P9SPL*SDN12NC†	\$48.50
Quick-Connect Terminal	Full Voltage	Round Polished Chrome	P9CPL*SDN45ND†	\$48.50
Quick-Connect Terminal	Full Voltage	Round Satin Chrome	P9MPL*SDN45ND†	\$48.50
Quick-Connect Terminal	Full Voltage	Round Engineered Plastic	P9XPL*SDN45ND†	\$48.50
Quick-Connect Terminal	Full Voltage	Square Engineered Plastic	P9SPL*SDN45ND†	\$48.50
Screw Terminal	Transformer	Round Polished Chrome	P9CPL*SDN30NH†	\$70.00
Screw Terminal	Transformer	Round Satin Chrome	P9MPL*SDN30NH†	\$70.00
Screw Terminal	Transformer	Round Engineered Plastic	P9XPL*SDN30NH†	\$70.00
Screw Terminal	Transformer	Square Engineered Plastic	P9SPL*SDN30NH†	\$70.00
Screw Terminal	Resistor	Round Polished Chrome	P9CPL*SDN30NK† 🤚	\$60.00
Screw Terminal	Resistor	Round Satin Chrome	P9MPL*SDN30NK†	\$60.00
Screw Terminal	Resistor	Round Engineered Plastic	P9XPL*SDN30NK†	\$60.00
Screw Terminal	Resistor	Square Engineered Plastic	P9SPL*SDN30NK†	\$60.00

Replace asterisk (\*) in product number with color code digit from Colors table below.

### \*Colors

Color	Red	Green	Yellow	Blue	White	Orange	Clear	No Lens <sup>1</sup>
*Color Code	R	V	G	L	В	A	I	0

<sup>&</sup>lt;sup>1</sup>When ordering Push-to-Test pilot light with no lens, also change eighth digit in product number from D to O and deduct \$1.00 from List Price. Color lenses and diffusers are listed separately on page 9-112.

Replace dagger (†) in product number with power supply code from corresponding section of power supplies table below.

### **†Power Supplies**

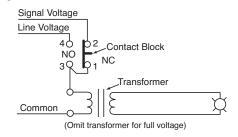
11 over Supplies		Incandescent Bulb	LED Bulb
†Power Supply Type	Lamp	†Power Supply Code	†Power Supply Code <sup>2</sup>
	6 V	Al	AL
	12 V	BI	BL
	24 V	DI	DL
Full Voltage (ac/dc)	48 V	GI	GL
	60 V	HI	_
	120 V (ac only)	_	JL
	130 V	LI	_
	48 V	GI	GL
4	60 V	HI	HL
	110-120 V	JI	JL
	220-250 V	NI	NL
Transformer (ac only)	277 V	RI	RL
	380 V	UI	UL
	415-440 V	WI	WL
	480-500 V	YI	YL
	550-600 V	ZI	ZL
Standard Resistor (ac/dc)	110-120 V	JI	_
	220-240 V	NI	_

<sup>&</sup>lt;sup>2</sup>When ordering operator with LED and **\$15.00** to **List Price, GO-10GC**. Available for red, green, yellow, white and orange lenses only.



Section 9





Schematic Diagram



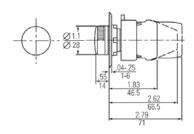
Outlines and Dimensions: See page 9-95 Accessories: See page 9-110 to 9-119 Technical Data: See page 9-127 to 9-133

# Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Pilot Lights

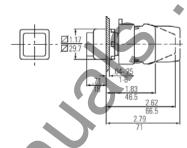
# C-2000

Standard
Outlines and Dimensions (mm) (For Estimating Only)
600 VAC Max., 300 VDC Max.
10 Amps Continuous AC, 2.5 Amps Continuous DC

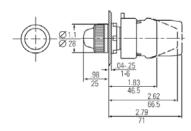




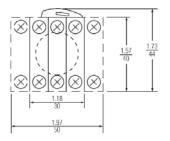
**Round Indicating Light** 



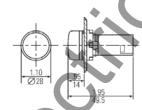
**Square Indicating Light** 



Round Indicating Light—Glass Lens



Typical Back Side View



Round Indicating Light—Unibloc



**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

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# Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Special Operators C-2000 Section 9

Special Operators 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

Boot is nitride rubber, check for application suitability. For optional silicone boot, contact factory for availability.

# **Selection Process**

00.000.0						
Select						
operator	+	Select contact block(s)	+	Select nameplate, if required,	=	Complete Unit
below		from page 9-101		from pages 9-103 to 9-105		









# **Joysticks**

			Mechanical	Product	List Price
Position Type	Release Type	Operator Style	Interlock	Number	GO-10GC
3-Position	Maintained All Positions	Round Polished Chrome	No	P9CMN2F	\$85.00
3-Position	Maintained All Positions	Round Polished Chrome	Yes	P9CMB2F	\$85.00
3-Position	Maintained All Positions	Round Satin Chrome	No	P9MMN2F	\$85.00
3-Position	Maintained All Positions	Round Satin Chrome	Yes	P9MMB2F	\$85.00
3-Position	Maintained All Positions	Round Engineered Plastic	No	P9XMN2F	\$85.00
3-Position	Maintained All Positions	Round Engineered Plastic	Yes	P9XMB2F	\$85.00
3-Position	Momentary All Positions	Round Polished Chrome	No	P9CMN2T	\$85.00
3-Position	Momentary All Positions	Round Polished Chrome	Yes	P9CMB2T	\$85.00
3-Position	Momentary All Positions	Round Satin Chrome	No	P9MMN2T	\$85.00
3-Position	Momentary All Positions	Round Satin Chrome	Yes	P9MMB2T	\$85.00
3-Position	Momentary All Positions	Round Engineered Plastic	No	P9XMN2T	\$85.00
3-Position	Momentary All Positions	Round Engineered Plastic	Yes	P9XMB2T	\$85.00
3-Position	Up Momentary—Down Maintained	Round Polished Chrome	No	P9CMN2A	\$85.00
3-Position	Up Momentary—Down Maintained	Round Polished Chrome	Yes	P9CMB2A	\$85.00
3-Position	Up Momentary—Down Maintained	Round Satin Chrome	No	P9MMN2A	\$85.00
3-Position	Up Momentary—Down Maintained	Round Satin Chrome	Yes	P9MMB2A	\$85.00
3-Position	Up Momentary—Down Maintained	Round Engineered Plastic	No	P9XMN2A	\$85.00
3-Position	Up Momentary—Down Maintained	Round Engineered Plastic	Yes	P9XMB2A	\$85.00
3-Position	Up Maintained—Down Momentary	Round Polished Chrome	No	P9CMN2B	\$85.00
3-Position	Up Maintained—Down Momentary	Round Polished Chrome	Yes	P9CMB2B	\$85.00
3-Position	Up Maintained—Down Momentary	Round Satin Chrome	No	P9MMN2B	\$85.00
3-Position	Up Maintained—Down Momentary	Round Satin Chrome	Yes	P9MMB2B	\$85.00
3-Position	Up Maintained—Down Momentary	Round Engineered Plastic	No	P9XMN2B	\$85.00
3-Position	Up Maintained—Down Momentary	Round Engineered Plastic	Yes	P9XMB2B	\$85.00
5-Position	Maintained All Positions	Round Polished Chrome	No	P9CMN4F	\$115.00
5-Position	Maintained All Positions	Round Polished Chrome	Yes	P9CMB4F	\$115.00
5-Position	Maintained All Positions	Round Satin Chrome	No	P9MMN4F	\$115.00
5-Position	Maintained All Positions	Round Satin Chrome	Yes	P9MMB4F	\$115.00
5-Position	Maintained All Positions	Round Engineered Plastic	No	P9XMN4F	\$115.00
5-Position	Maintained All Positions	Round Engineered Plastic	Yes	P9XMB4F	\$115.00
5-Position	Momentary All Positions	Round Polished Chrome	No	P9CMN4T	\$115.00
5-Position	Momentary All Positions	Round Polished Chrome	Yes	P9CMB4T	\$115.00
5-Position	Momentary All Positions	Round Satin Chrome	No	P9MMN4T	\$115.00
5-Position	Momentary All Positions	Round Satin Chrome	Yes	P9MMB4T	\$115.00
5-Position	Momentary All Positions	Round Engineered Plastic	No	P9XMN4T	\$115.00
5-Position	Momentary All Positions	Round Engineered Plastic	Yes	P9XMB4T	\$115.00



Note selection and position of contact block(s) for cam.

# 3-Position Joystick

Position			Screw Terminal Contact Block Product No. and Mounting Position		
Up	Center	Døwn	Position 1	Position 2	
X	0	0	P9B11VN		_
0	0	×	PARTINI	_	
0	0	×		P9B11VN	
X	0	0	_	PARTINI	

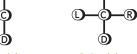
# 5-Position Joystick

	Po	sition			al Contact Block Mounting Position	
Up	Right	Center	Down	Left	Position 1	Position 2
0	X	0	0	0	P9B11VN	
0	0	0	0	X	PADITAIN	_
0	0	0	X	0		P9B11VN
Χ	0	0	0	0	_	PARTINI



Special Operators

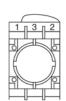




3-Position Joystick

5-Position Joystick

# **Operator Positions**



Contact Block Positions (viewed from rear)



Outlines and Dimensions: See page 9-99 Accessories: See page 9-110 to 9-119 Technical Data: See page 9-127 to 9-133

# Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Special Operators

# C-2000

Special Operators 600 VAC Max., 300 VDC Max 10 Amps Continuous AC, 2.5 Amps Continuous DC

# **Selection Process**

Select						
operator	+	Select contact block(s)	+	Select nameplate, if required,	=	Complete Unit
below		from page 9-101		from pages 9-103 to 9-105		









# **Toggle Switches**

Position Type	Release Type	Operator Style	Product Number	List Price GO-10GC
2-Position	Maintained	Round Polished Chrome	P9CCD	\$15.50
2-Position	Maintained	Round Satin Chrome	P9MCD	\$15.50
2-Position	Maintained	Round Engineered Plastic	P9XCD	\$15.50
2-Position	Maintained	Square Engineered Plastic	P9SCD	\$15.50
3-Position	Maintained	Round Polished Chrome	Р9ССВ	\$15.50
3-Position	Maintained	Round Satin Chrome	P9MCB	\$15.50
3-Position	Maintained	Round Engineered Plastic	P9XCB	\$15.50
3-Position	Maintained	Square Engineered Plastic	P9SCB	\$15.50
3-Position	Spring Return From Top	Round Polished Chrome	P9CCC	\$18.50
3-Position	Spring Return From Top	Round Satin Chrome	P9MCC	\$18.50
3-Position	Spring Return From Top	Round Engineered Plastic	P9XCC	\$18.50
3-Position	Spring Return From Top	Square Engineered Plastic	P9SCC P9SCC	\$18.50

# Cams

Note selection and position of contact block(s) for cam.

					Contact Block Mounting Position				
				Screw To	erminal	Quick-Co	onnect		
				Produ	ct No.	Terminal Pr	oduct No.		
Positions	Up	Center	Down	1	2	1	2		
2	Х	_	0	_	P9B10VN	_	P9B10FN		
	0	_	X	P9B01VN 🤷		P9B01FN	_		
	X	_	0	P9B11VN					
	0	_	X	PADITAIN		_	_		
3	X	0	0	-	P9B10VN	_	P9B10FN		
	0	0	X	P9B01VN		P9B01FN	_		
	X	0	0	DOD 1417N					
	0	0	X	P9B11VN		_			



Contact Block Positions (viewed from rear)

# **Wobble Sticks**

		List Price
Operator Style	Product Number	GO-10GC
Round Polished Chrome	P9€WR	\$31.00
Round Satin Chrome	P9MWR	\$31.00
Round Engineered Plastic	P9XWR	\$31.00

# **Potentiometer Operators**,

		List Price
Operator Style	Product Number	GO-10GC
Round Polished Chrome	P9CZ	\$65.00
Round Satin Chrome	P9MZ	\$65.00
Round Engineered Plastic	P9XZ	\$65.00
Square Engineered Plastic	P9SZ	\$65.00



Outlines and Dimensions: See page 9-99 Accessories: See page 9-110 to 9-119 Technical Data: See page 9-127 to 9-133

**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

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Control Catalog

# Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Special Operators C-2000

Special Operators 600 VAC Max., 300 VDC Max 10 Amps Continuous AC, 2.5 Amps Continuous DC

# **Buzzer (Piezoelectric Transducer)**

			List Price
Operator Style	Voltage	Product Number	GO-10GC
Round Engineered Plastic	24 VAC/DC	P9XBD	\$65.00
Round Engineered Plastic	110-240 VAC/DC	P9XBM	\$65.00
Square Engineered Plastic	24 VAC/DC	P9SBD	\$65.00
Square Engineered Plastic	110-240 VAC/DC	P9SBM	\$65.00

# **Reset Push Buttons**

		List Price
Operator Style	Product Number <sup>1</sup>	GO-10GC
Round Polished Chrome	P9CRG	\$12.50
Round Satin Chrome	P9MRG	\$12.50
Round Engineered Plastic	P9XRG	\$12.50
Square Engineered Plastic	P9SRG	\$12.50

 $<sup>^{1}</sup>$ Flush blue push buttons with white "R" provided with screw adjustable from 60 mm to 80 mm depth.

# **Extended Screw for all Reset Push Buttons**

Accessory Type	Product Number <sup>2</sup>	List Price GO-10GC
Extended Screw	P9ACVLR	\$4.50

<sup>&</sup>lt;sup>2</sup>Adjustable from 80 mm to 170 mm depth.

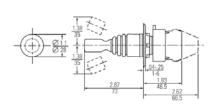
Outlines and Dimensions: See page 9-99 Accessories: See page 9-110 to 9-119 Technical Data: See page 9-127 to 9-133 Product Number Selection Instructions: See page 9-97

Section 9

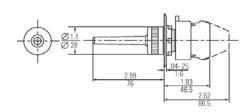
# Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Special Operators

# C-2000

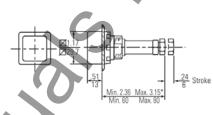
Special Operators
Outlines and Dimensions (in. mm) (For Estimating Only)
600 VAC Max., 300 VDC Max.
10 Amps Continuous AC, 2.5 Amps Continuous DC



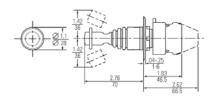
**Round Joysticks** 



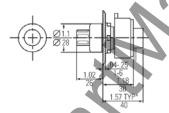
**Round Wobble Stick** 



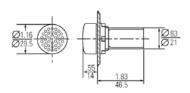
Square Reset Push Button



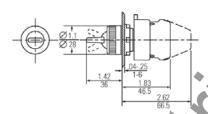
**Round Joystick With Interlock** 



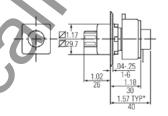
Round Potentiometer Operator



Round Buzzer

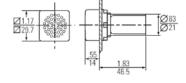


**Round Toggle Switch** 

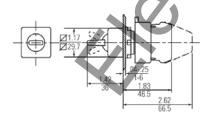


Square Potentiometer<sup>1</sup> Operator

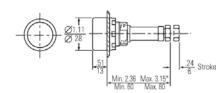
<sup>1</sup>Potentiometer supplied by customer



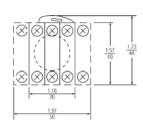
Square Buzzer



Square Toggle Switch



**Round Reset Push Button** 



Typical Back Side View



**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

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**Control Catalog** 

Power Supplies and Contact Blocks 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

Full Voltage Power Supplies AC/DC



<sup>&</sup>lt;sup>1</sup>Neon bulbs are recommended for use only with clear, red, and yellow lenses. <sup>2</sup>AC only

Transformer Power Supplies 50/60 Hz AC

		Lamp			List
Bulb	Terminal	Operational		Product	Price
Туре	type	Mode	Voltage	Number	GO-10GC
Incandescent	Screw Terminal	Steady	48V	P9PTNVG	\$42.50
Incandescent	Screw Terminal	Steady	60V	P9PTNVH	\$42.50
Incandescent	Screw Terminal	Steady	110-120V	P9PTNVJ	\$42.50
Incandescent	Screw Terminal	Steady	220-250V	P9PTNVN	\$42.50
Incandescent	Screw Terminal	Steady	277-280V	▶ P9PTNVR	\$42.50
Incandescent	Screw Terminal	Steady	380V	P9PTNVU	\$42.50
Incandescent	Screw Terminal	Steady	415-440V	P9PTNVW	\$42.50
Incandescent	Screw Terminal	Steady	480-500V	P9PTNVY	\$42.50
Incandescent	Screw Terminal	Steady	550-600V	P9PTNVZ	\$42.50
Incandescent	Screw Terminal	Flashing	48V	P9PTMVG	\$72.50
Incandescent	Screw Terminal	Flashing	60V	P9PTMVH	\$72.50
Incandescent	Screw Terminal	Flashing	110-120V	P9PTMVJ	\$72.50
Incandescent	Screw Terminal	Flashing	220-250V	P9PTMVN	\$72.50
Incandescent	Screw Terminal	Flashing	277-280V	P9PTMVR	\$72.50
Incandescent	Screw Terminal	Flashing	380V	P9PTMVU	\$72.50
Incandescent	Screw Terminal	Flashing	415-440V	P9PTMVW	\$72.50
Incandescent	Screw Terminal	Flashing	480-500V	P9PTMVY	\$72.50
Incandescent	Screw Terminal	Flashing	550-600V	P9PTMVZ	\$72.50
LED	Screw Terminal	Steady	48V	P9PTNVGL*	\$57.50
LED	Screw Terminal	Steady	60V	P9PTNVHL*	\$57.50
LED	Screw Terminal	Steady	110-120V	P9PTNVJL*	\$57.50
LED	Screw Terminal	Steady	220-250V	P9PTNVNL*	\$57.50
LED	Screw Terminal	Steady	277-280V	P9PTNVRL*	\$57.50
LED	Screw Terminal	Steady	380V	P9PTNVUL*	\$57.50
LED	Screw Terminal	Steady	415-440V	P9PTNVWL*	\$57.50
LED	Screw Terminal	Steady	480-500V	P9PTNVYL*	\$57.50
LED	Screw Terminal	Steady	550-600V	P9PTNVZL*	\$57.50
LED	Screw Terminal	Flashing	48V	P9PTMVGL*	\$87.50
LED	Screw Terminal	Flashing	60V	P9PTMVHL*	\$87.50
LED	Screw Terminal	Flashing	110-112V	P9PTMVJL*	\$87.50
LED	Screw Terminal	Flashing	220-250V	P9PTMVNL*	\$87.50
LED	Screw Terminal	Flashing	277-280V	P9PTMVRL*	\$87.50
LED.	Screw Terminal	Flashing	380V	P9PTMVUL*	\$87.50
LED	Screw Terminal	Flashing	415-440V	P9PTMVWL*	\$87.50
LED	Screw Terminal	Flashing	480-500V	P9PTMVYL*	\$87.50
LED	Screw Terminal	Flashing	550-600V	P9PTMVZL*	\$87.50

Complete product number by inserting color code digit in place of asterisk (\*).

### \*LED Colors

LED Color	Red	Green	Yellow	Orange	Blue	White
Color Code	R	V	G	А	L	В

Outlines and Dimensions: See page 9-102

100 Control Catalog www.geelectrical.com Rev. 1/08
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Power Supplies and Contact Blocks 600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

# Resistor Power Supplies AC/DC

		Lamp			List
Bulb	Terminal	Operational		Product	Price
Туре	type	Mode	Voltage	Number	GO-10GC
Incandescent	Screw Terminal	Steady	110-120V	P9PRNVJ	\$35.00
Incandescent	Screw Terminal	Steady	220-240V	P9PRNVN	\$35.00
Incandescent	Screw Terminal	Steady with Diode	220-240V	P9PRDVN	\$35.00
Incandescent	Screw Terminal	Steady Long Life	110-120V	P9PRLVJ	\$35.00
Incandescent	Screw Terminal	Panel Test	220-240V	P9PRTVN	\$50.00

# Full-Voltage Power Supplies Low-Level Energy (Reed)

		Lamp			List
Bulb	Terminal	Operational		Product	Price
Туре	type	Mode	Voltage	Number	GO-10GC
Incandescent	Quick-Connect Terminal	Steady	-	P9PDHF1	\$17.50

 $<sup>^{1}</sup>$ For use with Reed Logic flange only.

### **Contact Blocks**

COTTUCE DIOCKS				
Terminal	Contact Block	Contact	Product	List Price
type	Туре	Configuration	Number	GO-10GC
Screw Terminal	Standard	1NO	P9B10VN	\$7.50
Screw Terminal	Standard 🧥	1NC	P9B01VN	\$7.50
Screw Terminal	Standard	1NO-1NC	P9B11VN	\$15.00
Screw Terminal	Standard	2NO	P9B20VN	\$15.00
Screw Terminal	Standard	SNC	P9B02VN	\$15.00
Screw Terminal	Early Make	1NO	P9B10VA	\$7.50
Screw Terminal	Late Opening	1NC	P9B01VR	\$7.50
Screw Terminal	Base Mount	1NO	P9B10BN	\$7.50
Screw Terminal	Base Mount	1NC	P9B01BN	\$7.50
Screw Terminal	0.1-30 sec. Time-Delay	1NO-1NC	P9B11T3	\$75.00
Screw Terminal	10-180 sec. Time-Delay	1NO-1NC	P9B11T8	\$75.00
Quick-Connect Terminal	Standard	1NO	P9B10FN	\$7.50
Quick-Connect Terminal	Standard	1NC	P9B01FN	\$7.50
Quick-Connect Terminal	Reed	1NO	P9B10FH <sup>2</sup>	\$18.00
Quick-Connect Terminal	Reed	1NC	P9B01FH <sup>2</sup>	\$18.00

<sup>2</sup>Requires special flange (P9ACFSM).

Order on page 9-118



**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

Outlines and Dimensions: See page 9-102

Rev. 1/08 Prices and data subject to change without notice

www.geelectrical.com

Control Catalog

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# Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Special Operators C-2000

Power Supplies and Contact Blocks
Outlines and Dimensions (in/min) (For Estimating Only)
600 VAC Max., 300 VDC Max.
10 Amps Continuous AC, 2.5 Amps Continuous DC



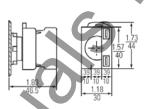


Full-Voltage, Long-Life, & Resistor & Diode Power Supplies with Screw Terminals





Full-Voltage & Transformer Continuous or Flashing Power Supplies with Screw Terminals

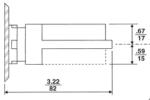


Single Contact Blocks with Ouick-Connect Terminals





Full-Voltage Power Supply with Quick-Connect Terminals



Quick-Connect—Logic reed switch-Contact Block Quick-Connect— Logic Power Supplies





Section 9

Double Contact Blocks with Screw Terminals

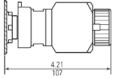




Resistor, Full-Voltage Test and Resistor Test Power Supplies with Screw Terminals

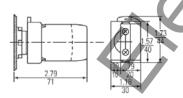


Single Contact Blocks with Screw Terminals





Time-Delay Contact Blocks with Screw Terminals



Transformer Power Supply with Screw Terminals

Control Catalog www.geelectrical.com Rev. 1/08
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C-2000

Nameplates 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

# Sec

# Standard Metal

Nameplate Marking	Product Number	List Price GO-10GC
Auto	P9ACP2N219	\$1.80
Auto Cut	P9ACP2N272	\$1.80
Auto Return	P9ACP2N273	\$1.80
CLOSE	P9ACP2N205	\$1.80
Control Off	P9ACP2N262	\$1.80
Control On	P9ACP2N286	\$1.80
Cycle On DECREASE	P9ACP2N266 P9ACP2N274	\$1.80 \$1.80
DOWN	P9ACP2N203	\$1.80
EMERGENCY STOP (Red)	P9ACP2R229	\$1.80
Emergency Stop Pull to Reset (RED)	P9ACP2R230	\$1.80
FAST	P9ACP2N208	\$1.80
Fault	P9ACP2N218	\$1.80
FORWARD	P9ACP2N214	\$1.80
Hand HIGH	P9ACP2N220 P9ACP2N221	\$1.80 \$1.80
IN	P9ACP2N275	\$1.80
INCH	P9ACP2N209	\$1.80
INCREASE	P9ACP2N278	\$1.80
JOG	P9ACP2N210	\$1.80
LEFT	P9ACP2N222	\$1.80
LOW	P9ACP2N223	\$1.80
LOWER	P9ACP2N217	\$1.80
Off (Red)	P9ACP2R213	\$1.80
ON OPEN	P9ACP2N212 P9ACP2N206	\$1.80 \$1.80
OUT	P9ACP2N206	\$1.80
Overload Tripped	P9ACP2N226	\$1.80
POWER ON	P9ACP2N240	\$1.80
Push-to-Stop/Pull-to-Start	P9ACP2N241	\$1.80
RAISE	P9ACP2N216	\$1.80
RESET	P9ACP2N291	\$1.80
RETURN	P9ACP2N242	\$1.80
REVERSE	P9ACP2N215	\$1.80
RIGHT RUN	P9ACP2N224 P9ACP2N211	\$1.80 \$1.80
Safe	P9ACP2N281	\$1.80
SLOW	P9ACP2N207	\$1.80
Spindle Closed	P9ACP2N294	\$1.80
Spindle Open	P9ACP2N295	\$1.80
START	P9ACP2N202	\$1.80
STOP (Red)	P9ACP2R201	\$1.80
Stop Rotate-to-Reset	P9ACP2N228	\$1.80
Sub SPD Closed	P9ACP2N296	\$1.80
Sub SPD Open TEST	P9ACP2N297 P9ACP2N225	\$1.80 \$1.80
UP	P9ACR2N204	\$1.80
Feed Hold	P9ACP2N263	\$1.80
FOR REV	P9ACP2N231	\$1.80
HAND AUTO	P9ACP2N243	\$1.80
HIGH LOW	P9ACP2N244	\$1.80
H.P. Coolant	P9ACP2N290	\$1.80
Inch Cut	P9ACP2N276	\$1.80
Inch Return	P9ACP2N277	\$1.80
JOG FORWARD	P9ACP2N279	\$1.80
JOG REVERSE JOG RUN	P9ACP2N280 P9ACP2N245	\$1.80 \$1.80
LEFT RIGHT	P9ACP2N246	\$1.80
LOW HIGH	P9ACP2N247	\$1.80
LOWER RAISE	P9ACP2N248	\$1.80
OFF ON	P9ACP2N233	\$1.80
OPEN CLOSE	P9ACP2N234	\$1.80
RAISE LOWER	P9ACP2N249	\$1.80
REV FOR	P9ACP2N250	\$1.80
RUN JOG	P9ACP2N251	\$1.80
SAFE RUN	P9ACP2N252	\$1.80
SLOW FAST	P9ACP2N253	\$1.80 \$1.80
START CYCLE	P9ACP2N282 P9ACP2N283	\$1.80 \$1.80
Start Feed		

# **Standard Metal (continued)**

	_	List Price
Nameplate Marking	Product Number	GO-10GC
START STOP	P9ACP2N255	\$1.80
Stop Cycle	P9ACP2N265	\$1.80
Stop Feed	P9ACP2N264	\$1.80
Stop Reset (Red)	P9ACP2R227	\$1.80
STOP START	P9ACP2N232	\$1.80
UP DOWN	P9ACP2N256	\$1.80
OFF COOLANT ON	P9ACP2N257	\$1.80
Auto Off Hand	P9ACP2N258	\$1.80
FOR OFF REV	P9ACP2N239	\$1.80
FOR STOP REV	P9ACP2N259	\$1.80
HAND OFF AUTO	P9ACP2N261	\$1.80
JOG OFF RUN	P9ACP2N298	\$1.80
JOG SAFE RUN	P9ACP2N267	\$1.80
Local Off Remote	P9ACP2N237	\$1.80
LOW OFF HIGH	P9ACP2N238	\$1.80
LOWER OFF RAISE	P9ACP2N268	\$1.80
MAN OFF AUTO	P9ACP2N269	\$1.80
OPEN OFF CLOSE	P9ACP2N270	\$1.80
SLOW OFF FAST	P9ACP2N271	\$1.80

### Plastic Insert

Product Number¹  P9ACPBS219  P9ACPBS272  P9ACPBS273  P9ACPBS265  P9ACPBS266  P9ACPBS266  P9ACPBS274  P9ACPBS203  P9ACPBS203  P9ACPBS209  P9ACPBS204  P9ACPBS204  P9ACPBS208  P9ACPBS218  P9ACPBS214  P9ACPBS220	\$.50 \$.50 \$.50 \$.50 \$.50 \$.50 \$.50 \$.50
P9ACPBS272 P9ACPBS273 P9ACPBS205 P9ACPBS262 P9ACPBS266 P9ACPBS266 P9ACPBS274 P9ACPBS203 P9ACPBS229 P9ACPBS229 P9ACPBS230 P9ACPBS208 P9ACPBS218	\$.50 \$.50 \$.50 \$.50 \$.50 \$.50 \$.50 \$.50
P9ACPBS273 P9ACPBS205 P9ACPBS262 P9ACPBS266 P9ACPBS266 P9ACPBS274 P9ACPBS203 P9ACPBS229 P9ACPBS230 P9ACPBS230 P9ACPBS208 P9ACPBS218	\$.50 \$.50 \$.50 \$.50 \$.50 \$.50 \$.50 \$.50
P9ACPBS205 P9ACPBS262 P9ACPBS266 P9ACPBS266 P9ACPBS274 P9ACPBS203 P9ACPBS229 P9ACPBS230 P9ACPBS208 P9ACPBS218 P9ACPBS218	\$.50 \$.50 \$.50 \$.50 \$.50 \$.50 \$.50 \$.50
P9ACPBS262 P9ACPBS266 P9ACPBS266 P9ACPBS274 P9ACPBS203 P9ACPBS229 P9ACPBS229 P9ACPBS208 P9ACPBS218	\$.50 \$.50 \$.50 \$.50 \$.50 \$.50 \$.50 \$.50
P9ACPBS286 P9ACPBS266 P9ACPBS274 P9ACPBS203 P9ACPBS229 P9ACPBS230 P9ACPBS208 P9ACPBS218 P9ACPBS214	\$.50 \$.50 \$.50 \$.50 \$.50 \$.50 \$.50
P9ACPBS266 P9ACPBS274 P9ACPBS203 P9ACPBS229 P9ACPBS230 P9ACPBS230 P9ACPBS218 P9ACPBS214	\$.50 \$.50 \$.50 \$.50 \$.50 \$.50
P9ACPBS274 P9ACPBS203 P9ACPBS229 P9ACPBS230 P9ACPBS208 P9ACPBS218 P9ACPBS214	\$.50 \$.50 \$.50 \$.50 \$.50
P9ACPBS203 P9ACPBS229 P9ACPBS230 P9ACPBS208 P9ACPBS218 P9ACPBS214	\$.50 \$.50 \$.50 \$.50
P9ACPBS229 P9ACPBS230 P9ACPBS208 P9ACPBS218 P9ACPBS214	\$.50 \$.50 \$.50
P9ACPBS230 P9ACPBS208 P9ACPBS218 P9ACPBS214	\$.50 \$.50
P9ACPBS208 P9ACPBS218 P9ACPBS214	\$.50
P9ACPBS218 P9ACPBS214	
P9ACPBS214	
	\$.50
P9ACPBS220	\$.50
	\$.50
P9ACPBS221	\$.50
P9ACPBS275	\$.50
P9ACPBS209	\$.50
P9ACPBS278	\$.50
P9ACPBS210	\$.50
P9ACPBS222	\$.50
P9ACPBS223	\$.50
P9ACPBS217	\$.50
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P9ACPBS296	\$.50
P9ACPBS297	\$.50
	P9ACPBS213 P9ACPBS212 P9ACPBS212 P9ACPBS206 P9ACPBS206 P9ACPBS239 P9ACPBS240 P9ACPBS241 P9ACPBS216 P9ACPBS215 P9ACPBS215 P9ACPBS215 P9ACPBS215 P9ACPBS211 P9ACPBS211 P9ACPBS211 P9ACPBS291 P9ACPBS207 P9ACPBS295 P9ACPBS202 P9ACPBS202 P9ACPBS201 P9ACPBS201

 $^{1}\mbox{For}$  use with plastic nameplate holders on page 9-104.



**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

P9ACP2N254

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Control Catalog

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\$1.80

Nameplates 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

Plastic Insert (continued)

Nameplate Marking	Product Number <sup>1</sup>	List Price GO-10GC
UP	P9ACPBS204	\$.50
Feed Hold	P9ACPBS263	\$.50
FOR REV	P9ACPBS231	\$.50
HAND AUTO	P9ACPBS243	\$.50
HIGH LOW	P9ACPBS244	\$.50
H.P. Coolant	P9ACPBS290	\$.50
Inch Cut	P9ACPBS276	\$.50
Inch Return	P9ACPBS277	\$.50
JOG FORWARD	P9ACPBS279	\$.50
JOG REVERSE	P9ACPBS280	\$.50
JOG RUN	P9ACPBS245	\$.50
LEFT RIGHT	P9ACPBS246	\$.50
LOW HIGH	P9ACPBS247	\$.50
LOWER RAISE	P9ACPBS248	\$.50
OFF ON	P9ACPBS233	\$.50
OPEN CLOSE	P9ACPBS234	\$.50
RAISE LOWER	P9ACPBS249	\$.50
REV FOR	P9ACPBS250	\$.50
RUN JOG	P9ACPBS251	\$.50
SAFE RUN	P9ACPBS252	\$.50
SLOW FAST	P9ACPBS253	\$.50
START CYCLE	P9ACPBS282	\$.50
Start Feed	P9ACPBS283	\$.50
START JOG	P9ACPBS254	\$.50
START STOP	P9ACPBS255	\$.50
Stop Cycle	P9ACPBS265	\$.50
Stop Feed	P9ACPBS264	\$.50
Stop Reset (Red)	P9ACPBS227	\$.50
STOP START	P9ACPBS232	\$.50
UP DOWN	P9ACPBS256	\$.50
OFF COOLANT ON	P9ACPBS257	\$.50
Auto Off Hand	P9ACPBS258	\$.50
FOR OFF REV	P9ACPBS239	\$.50
FOR STOP REV	P9ACPBS259	\$.50
HAND OFF AUTO	P9ACPBS261	\$.50
JOG OFF RUN	P9ACPBS298	\$.50
JOG SAFE RUN	P9ACPBS267	\$.50
Local Off Remote	P9ACPBS237	\$.50
LOW OFF HIGH	P9ACPBS237	\$.50
LOWER OFF RAISE	P9ACPBS238 P9ACPBS268	\$.50
		\$.50
MAN OFF AUTO OPEN OFF CLOSE	P9ACPBS269	\$.50 \$.50
	P9ACPBS270	4
SLOW OFF FAST	P9ACPBS271	\$.50

<sup>&</sup>lt;sup>1</sup>For use with plastic nameplate holders.

# **Plastic Insert**

		LIST Price
Nameplate Marking	Product Number <sup>1</sup>	GO-10GC
Abrir	P9ACPBS506	\$.50
Adelente	P9ACPBS502	\$.50
Atras	P9ACPBS508	\$.50
Atras Adelante	P9ACPBS518	\$.50
Atras O Adelante	P9ACPBS519	\$.50
Bajar	P9ACPBS505	\$.50
Вајо	P9ACPBS514	\$.50
Cerrar	P9ACPBS501	\$.50
Defecto	P9ACPBS513	\$.50
Derecha	P9ACPBS509	\$.50
Emergencia	P9ACPBS516	\$.50
Izquierda	P9ACPBS504	\$.50
Manual	P9ACPBS503	\$.50
Marcha	P9ACPBS510	\$.50
Paro (Red)	P9ACPBS511	\$.50
Paro Marcha	P9ACPBS517	\$.50
Paro O Marcha	P9ACPBS520	\$.50
Rapido	P9ACPBS512	\$.50
Reame	P9ACPBS515	\$.50
Subir	P9ACPBS507	\$.50
<sup>1</sup> For use with plastic nameplate holder	S.	

Plastic Nameplates with Blank Inserts

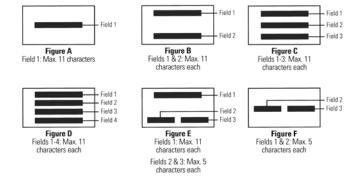
Nameplate Type	Operator Style	Nameplate Size	Product Number <sup>2</sup>	List Price GO-10GC
Plastic w/ Blank Inserts	Round Polished Chrome	Standard	P9ARTBS	<b>\$1.00</b> ea.
	Round Satin Chrome			
	Round Engineered Plastic			
Plastic w/ Blank Inserts	Round Polished Chrome	Jumbo	P9ARTBM	<b>\$1.50</b> ea.
	Round Satin Chrome			
	Round Engineered Plastic			
Plastic w/ Blank Inserts	Square Engineered Plastic	Standard	P9ASTBS	<b>\$2.00</b> ea.
Spare Blank Insert	Round Polished Chrome	Standard	P9ACPBS	<b>\$.50</b> ea.
	Round Satin Chrome			
	Round Engineered Plastic			
Spare Blank Insert	Round Polished Chrome	Jumbo	P9ARPBM	<b>\$.50</b> ea.
	Round Satin Chrome			
	Round Engineered Plastic			
Transparent Insert	Round Polished Chrome	Standard	P9ACPTS	<b>\$.50</b> ea.
	Round Satin Chrome			
	Round Engineered Plastic			
Transparent Insert	Round Polished Chrome	Jumbo	P9ARPTM	<b>\$.50</b> ea.
	Round Satin Chrome			
	Round Engineered Plastic			

Section 9

### Plastic Nameplate Holders With Custom Engraved Inserts

			List Price
Operator Style	Nameplate Size	Product Number	GO-10GC
Round Polished Chrome	Standard	P9ARTBSEN	\$8.00
Round Satin Chrome			
Round Engineered Plastic			
Round Polished Chrome	Jumbo	P9ARTBMEN	\$8.00
Round Satin Chrome			
Round Engineered Plastic			
Square Engineered Plastic	Standard	P9ASTBSEN	\$8.00

For custom engraved engineered plastic nameplates, specify Figure corresponding to desired field configuration, characters desired for each field, and color (black or red) of field.



### **Legend for Custom Engraved Inserts**

### **Blank Metal**

		List Price
Color	Product Number	GO-10GC
Black	P9ACP2N	\$1.80
Red	P9ACP2R	\$1.80
Black	P9ACP3N	\$1.80
Red	P9ACP3R	\$1.80
	Black Red Black	Black P9ACP2N Red P9ACP2R Black P9ACP3N

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<sup>&</sup>lt;sup>2</sup>Package quantity is five, order in multiples of 5. Includes black holder with black/red reversible insert.

# C-2000

Nameplates 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

**Custom Engraved Metal** 

Color	Figure	Nameplate Size	Max. Characters per Field	Product Number	List Price GO-10GC
Black	1	Standard	Field 1: 13	P9ACP2NBEN	\$8.00
Black	2	Standard	Fields 1 & 2: 13 each	P9ACP2NCEN	\$8.00
Black	3	Standard	Fields 1 & 2: 6 each	P9ACP2NFEN	\$8.00
Black	4	Standard	Fields 1 & 3: 6 each, Fields 2: 13	P9ACP2NGEN	\$8.00
Black	5	Standard	Fields 1-4: 13 each	P9ACP2NHEN	\$8.00
Black	7	Joystick	Fields 1 & 2: 17 each	P9ACP3NJEN	\$8.00
Black	8	Joystick	Fields 1 & 2: 17 each;	P9ACP3NKEN	\$8.00
			Fields 3 & 4: 4 each		
Red	1	Standard	Field 1: 13	P9ACP2RBEN	\$8.00
Red	2	Standard	Fields 1 & 2: 13 each	P9ACP2RCEN	\$8.00
Red	3	Standard	Fields 1 & 2: 6 each	P9ACP2RFEN	\$8.00
Red	4	Standard	Fields 1 & 3: 6 each, Fields 2: 13	P9ACP2RGEN	\$8.00
Red	5	Standard	Fields 1-4: 13 each	P9ACP2RHEN	\$8.00
Red	7	Joystick	Fields 1 & 2: 17 each	P9ACP3RJEN	\$8.00
Red	8	Joystick	Fields 1 & 2: 17 each; Fields 3 & 4: 4 each	P9ACP3RKEN	\$8.00

For custom engraved metal nameplates, specify Figure corresponding to desired field configuration and characters desired for each field.

# **Yellow Emergency Round**

		List Price
Nameplate Marking	Nameplate Diameter	Product Number <sup>1</sup> GO-10GC
Blank	59 mm	080XTGR \$2.00
Blank	78 mm	080XTG8 \$2.00
Engraved	59 mm	080XTGR02 \$2.00
EMERGENCY STOP	78 mm	080XTG802 \$2.00

<sup>&</sup>lt;sup>1</sup>Package quantity is five, order in multiples of 5.



Figure 1



Figure 2



Figure 3



Figure 4



Figure 5



Figure 7



Figure 8





Blank and Yellow Emergency Stop



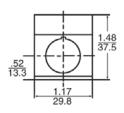
**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

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**Control Catalog** 

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Nameplates Outlines and Dimensions (mm) (For Estimating Only) 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

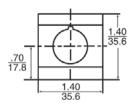


Standard Metal Nameplate



Section 9

Square Standard Plate Holder



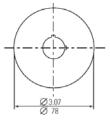
Metal Joystick Nameplate



Round Yellow Nameplate (59 mm)

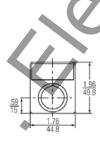


**Round Standard Plate** 



Round Yellow Nameplate (78 mm)

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**R**ound Large Plate Holder

C-2000

**Specially Marked Push Button Caps** 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

# **Specially Marked Push Button Caps**

For use with standard push buttons only. Order push button without cap and specially marked cap separately.

					List Price
1arking Description	Color	Special Function Type	Operator Style	Product Number	GO-10GC
op (text)	Red	Flush, Recessed	Round	P9ARBGR201 <sup>1</sup>	\$3.50
op (text)	Red	Extended	Round	P9ARBSR201	\$3.50
op (text)	Red	Flush	Square	P9ASBGR201	\$3.50
op (text)	Red	Extended	Square	P9ASBSR201	\$3.50
cart (text)	Black	Flush, Recessed	Round Round	P9ARBGN2021	\$3.50
art (text) art (text)	Black	Extended Flush		P9ARBSN202	\$3.50 \$3.50
tart (text)	Black Black	Extended	Square Square	P9ASBGN202 P9ASBSN202	\$3.50
tart (text)	Green	Flush, Recessed	Round	P9ARBGV202 <sup>1</sup>	\$3.50
tart (text)	Green	Extended	Round	P9ARBSV202	\$3.50
tart (text)	Green	Flush	Square	P9ASBGV202	\$3.50
tart (text)	Green	Extended	Square	P9ASBSV202	\$3.50
top (O)	Red	Flush, Recessed	Round	P9ARBGR029 <sup>1</sup>	\$3.50
top (O)	Red	Extended	Round	P9ARBSR029	\$3.50
top (O)	Red	Flush	Square	P9ASBGR029	\$3.50
top (O)	Red	Extended	Square	P9ASBSR029	\$3.50
tart (I)	Black	Flush, Recessed	Round	P9ARBGN028 <sup>1</sup>	\$3.50
tart (I)	Black	Extended	Round	P9ARBSN028	\$3.50
tart (I)	Black	Flush	Square	P9ASBGN028	\$3.50
tart (I)	Black	Extended	Square	P9ASBSN028	\$3.50
tart (I)	Green	Flush, Recessed	Round	P9ARBGV028 <sup>1</sup>	\$3.50
tart (I)	Green	Extended	Round	P9ARBSV028	\$3.50
tart (I)	Green	Flush	Square	P9ASBGV028	\$3.50
tart (I)	Green	Extended	Square	P9ASBSV028	\$3.50
nd Function	Black	Flush, Recessed	Round	P9ARBGN035 <sup>1</sup>	\$3.50
nd Function	Black	Extended	Round	P9ARBSN035	\$3.50
nd Function	Black	Flush	Square	P9ASBGN035	\$3.50
nd Function	Black	Extended	Square	P9ASBSN035	\$3.50
nd Function	Green	Flush, Recessed	Round	P9ARBGV035 <sup>1</sup>	\$3.50
nd Function	Green	Extended	Round	P9ARBSV035	\$3.50
nd Function	Green	Flush	Square	P9ASBGV035	\$3.50
nd Function	Green	Extended	Square	P9ASBSV035	\$3.50
rd Function	Black	Flush, Recessed	Round	P9ARBGN038 <sup>1</sup>	\$3.50
rd Function	Black	Extended	Round	P9ARBSN038	\$3.50
rd Function	Black	Flush	Square	P9ASBGN038	\$3.50
rd Function	Black	Extended	Square	P9ASBSN038	\$3.50
rd Function	Green	Flush, Recessed	Round	P9ARBGV038 <sup>1</sup>	\$3.50
rd Function	Green	Extended	Round	P9ARBSV038	\$3.50
rd Function	Green	Flush	Square	P9ASBGV038	\$3.50
rd Function	Green	Extended	Square	P9ASBSV038	\$3.50
ontinuous Linear Movement	Black	Flush, Recessed	Round	P9ARBGN006 <sup>1</sup>	\$3.50
ontinuous Linear Movement	Black	Extended	Round	P9ARBSN006	\$3.50
ontinuous Linear Movement	Black	Flush	Square	P9ASBGN006	\$3.50
ontinuous Linear Movement	Black	Extended	Square	P9ASBSN006	\$3.50
ontinuous Linear Movement	Green	Flush, Recessed	Round	P9ARBGV006 <sup>1</sup>	\$3.50
ontinuous Linear Movement	Green	Extended	Round	P9ARBSV006	\$3.50
ontinuous Linear Movement	Green	Flush	Square	P9ASBGV006	\$3.50
ontinuous Linear Movement	Green	Extended	Square	P9ASBSV006	\$3.50
ontinuous Clockwise Rotation	Black	Flush, Recessed	Round	P9ARBGN012 <sup>1</sup>	\$3.50
ontinuous Clockwise Rotation	Black	Extended	Round	P9ARBSN012	\$3.50
ontinuous Clockwise Rotation	Black	Flush	Square	P9ASBGN012	\$3.50
ontinuous Clockwise Rotation	Black	Extended Extended	Square	P9ASBSN012	\$3.50
ontinuous Clockwise Rotation	Green	Flush, Recessed	Round	P9ARBGV0121	\$3.50
ontinuous Clockwise Rotation	Green	Extended	rtouriu	P9ARBSV012	\$3.50
ontinuous Clockwise Rotation	Green	Flush	Square	P9ASBGV012	\$3.50
ontinuous Clockwise Rotation	Green	Extended Extended	Square	P9ASBSV012	\$3.50
ontinuous Counter-Clockwise Rotation	Black	Flush, Recessed	Round	P9ARBGN013 <sup>1</sup>	\$3.50
ontinuous Counter-Clockwise Rotation	Black	Extended	Round	P9ARBSN013	\$3.50
ontinuous Counter-Clockwise Rotation	Black	Flush	Square	P9ASBGN013	\$3.50
ontinuous Counter-Clockwise Rotation	Black	Extended	Square	P9ASBSN013	\$3.50
ontinuous Counter-Clockwise Rotation	Green	Flush, Recessed	Round	P9ARBGV013 <sup>1</sup>	\$3.50
ontinuous Counter-Clockwise Rotation	Green	Extended	Round	P9ARBSV013	\$3.50
ontinuous Counter-Clockwise Rotation	Green	Flush	Square	P9ASBGV013	\$3.50 \$3.50
Continuous Counter-Clockwise Rotation	Green	Extended	Square	P9ASBSV013	

 $^{1}\mathrm{Caps}$  for engineered plastic push buttons available for flush operators only.





(Stop)





(Stop)





(2nd Function)



(3rd Function)





(Continuous



Counter-Clockwise



Publications and Reference: See Section 17 for a complete list of additional product-related publications

Rev. 1/08 Prices and data subject to change without notice www.geelectrical.com

**Control Catalog** 

9-107

**Specially Marked Push Button Caps** 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

# **Specially Marked Push Button Caps**

For use with standard push buttons only. Order push button without cap and specially marked cap separately.

Marking Description	Color	Special Function Type	Operator Style	Product Number	GO-10GC
eed	Black	Flush, Recessed	Round	P9ARBGN014 <sup>1</sup>	\$3.50
ed	Black	Extended	Round	P9ARBSN014	\$3.50
ed	Black	Flush	Square	P9ASBGN014	\$3.50
eed	Black	Extended	Square	P9ASBSN014	\$3.50
eed	Green	Flush, Recessed	Round	P9ARBGV014 <sup>1</sup>	\$3.50
eed	Green	Extended	Round	P9ARBSV014	\$3.50
eed	Green	Flush	Square	P9ASBGV014	\$3.50
eed	Green	Extended	Square	P9ASBSV014	\$3.50
crease (+)	Black	Flush, Recessed	Round	P9ARBGN017 <sup>1</sup>	\$3.50
crease (+)	Black	Extended	Round	P9ARBSN017	\$3.50
crease (+)	Black	Flush	Square	P9ASBGN017	\$3.50
crease (+)	Black	Extended	Square	P9ASBSN017	\$3.50
crease (+)	Green	Flush, Recessed	Round	P9ARBGV017 <sup>1</sup>	\$3.50
crease (+)	Green	Extended	Round	P9ARBSV017	\$3.50
crease (+)	Green	Flush	Square	P9ASBGV017	\$3.50
crease (+)	Green	Extended	Square	P9ASBSV017	\$3.50
ecrease (–)	Black	Flush, Recessed	Round	P9ARBGN018 <sup>1</sup>	\$3.50
ecrease (-)	Black	Extended	Round	P9ARBSN018	\$3.50
ecrease (-)	Black	Flush	Square	P9ASBGN018	\$3.50
ecrease (-)	Black	Extended	Square	P9ASBSN018	\$3.50
ecrease (-)	Green	Flush, Recessed	Round	P9ARBGV018 <sup>1</sup>	\$3.50
ecrease (-)	Green	Extended	Round	P9ARBSV018	\$3.50
ecrease (-)	Green	Flush	Square	P9ASBGV018	\$3.50
ecrease (-)	Green	Extended	Square	P9ASBSV018	\$3.50
ito	Black	Flush, Recessed	Round	P9ARBGN026 <sup>1</sup>	\$3.50
ito	Black	Extended	Round	P9ARBSN026	\$3.50
ito	Black	Flush	Square	P9ASBGN026	\$3.50
ito	Black	Extended	Square	P9ASBSN026	\$3.50
ito	Green	Flush, Recessed	Round	P9ARBGV026 <sup>1</sup>	\$3.50
ito	Green	Extended	Round	P9ARBSV026	\$3.50
ıto	Green	Flush	Square	P9ASBGV026	\$3.50
ito	Green	Extended	Square	P9ASBSV026	\$3.50
and	Black	Flush, Recessed	Round	P9ARBGN027 <sup>1</sup>	\$3.50
and	Black	Extended	Round	P9ARBSN027	\$3.50
and	Black	Flush	Square	P9ASBGN027	\$3.50
and	Black	Extended	Square	P9ASBSN027	\$3.50
and	Green	Flush, Recessed	Round	P9ARBGV027 <sup>1</sup>	\$3.50
and	Green	Extended	Round	P9ARBSV027	\$3.50
and	Green	Flush	Square	P9ASBGV027	\$3.50
and	Green	Extended	Square	P9ASBSV027	\$3.50
gage	Black	Flush, Recessed	Round	P9ARBGN031 <sup>1</sup>	\$3.50
	Black	Extended	Round	P9ARBSN031	\$3.50
gage	Black	Flush	Square	P9ASBGN031	\$3.50
igage igage	Black	Extended	Square	P9ASBGN031	\$3.50
	Green	Flush, Recessed	Round	P9ASBSN031 P9ARBGV031 <sup>1</sup>	\$3.50
gage					
gage	Green	Extended Flush	Round	P9ARBSV031	\$3.50 \$3.50
gage	Green Green	Extended	Square	P9ASBGV031 P9ASBSV031	\$3.50 \$3.50
gage	Black	Flush, Recessed	Square Round	P9ASBSV031 P9ARBGN032 <sup>1</sup>	\$3.50 \$3.50
sengage	Black	Extended		P9ARBGN032* P9ARBSN032	
sengage	Black	Flush	Round	P9ARBSNU32 P9ASBGN032	\$3.50 \$3.50
sengage			Square		\$3.50
sengage	Black	Extended  Flush Resessed	Square	P9ASBSN032	\$3.50
engage	Green	Flush, Recessed	Round	P9ARBGV0321	\$3.50
sengage	Green	Extended	Round	P9ARBSV032	\$3.50
sengage	Green	Flush	Square	P9ASBGV032	\$3.50
sengage	Green	Extended	Square	P9ASBSV032	\$3.50
olant	Black	Flush, Recessed	Round	P9ARBGN001 <sup>1</sup>	\$3.50
olant	Black	Extended	Round	P9ARBSN001	\$3.50
olant	Black	Flush	Square	P9ASBGN001	\$3.50
olant	Black	Extended	Square	P9ASBSN001	\$3.50
olant	Green	Flush, Recessed	Round	P9ARBGV001 <sup>1</sup>	\$3.50
olant	Green	Extended	Round	P9ARBSV001	\$3.50
polant	Green	Flush	Square	P9ASBGV001	\$3.50
oolant	Green	Extended	Square	P9ASBSV001	\$3.50

<sup>(</sup>Auto) (Engage) (Disengage) (Coolant)  $^1\!\text{Caps}$  for engineered plastic push buttons available for flush operators only.









(Increase)







Control Catalog www.geelectrical.com

C-2000

**Specially Marked Push Button Caps** 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

#### **Specially Marked Push Button Caps**

For use with standard push buttons only. Order push button without cap and specially marked cap separately.

					List Price
Marking Description	Color	Special Function Type	Operator Style	Product Number	GO-10GC
Light	Black	Flush, Recessed	Round	P9ARBGN002 <sup>1</sup>	\$3.50
Light	Black	Extended	Round	P9ARBSN002	\$3.50
Light	Black	Flush	Square	P9ASBGN002	\$3.50
Light	Black	Extended	Square	P9ASBSN002	\$3.50
Light	Green	Flush, Recessed	Round	P9ARBGV002 <sup>1</sup>	\$3.50
Light	Green	Extended	Round	P9ARBSV002	\$3.50
Light	Green	Flush	Square	P9ASBGV002	\$3.50
Light	Green	Extended	Square	P9ASBSV002	\$3.50
Lubrication	Black	Flush, Recessed	Round	P9ARBGN005 <sup>1</sup>	\$3.50
Lubrication	Black	Extended	Round	P9ARBSN005	\$3.50
Lubrication	Black	Flush	Square	P9A\$BGN005	\$3.50
Lubrication	Black	Extended	Square	P9ASBSN005	\$3.50
Lubrication	Green	Flush, Recessed	Round	P9ARBGV005 <sup>1</sup>	\$3.50
Lubrication	Green	Extended	Round	P9ARBSV005	\$3.50
Lubrication	Green	Flush	Square	P9ASBGV005	\$3.50
Lubrication	Green	Extended	Square	P9ASBSV005	\$3.50
Reset (R)	Blue	Flush, Recessed	Round	P9ARBGL037 <sup>1</sup>	\$3.50
Reset (R)	Blue	Extended	Round	P9ARBSL037	\$3.50
Reset (R)	Blue	Flush	Square	P9ASBGL037	\$3.50
Reset (R)	Blue	Extended	Square	P9ASBSL037	\$3.50
Reset (R)	Red	Flush, Recessed	Round	P9ARBGR036 <sup>1</sup>	\$3.50
Reset (R)	Red	Extended	Round	P9ARBSR036	\$3.50
Reset (R)	Red	Flush	Square	P9ASBGR036	\$3.50
Reset (R)	Red	Extended	Square	P9ASBSR036	\$3.50
Impulse Control (T)	Black	Flush, Recessed	Round	P9ARBGN030 <sup>1</sup>	\$3.50
Impulse Control (T)	Black	Extended	Round	P9ARBSN030	\$3.50
Impulse Control (T)	Black	Flush	Square	P9ASBGN030	\$3.50
Impulse Control (T)	Black	Extended	Square	P9ASBSN030	\$3.50
Impulse Control (T)	Green	Flush, Recessed	Round	P9ARBGV030 <sup>1</sup>	\$3.50
Impulse Control (T)	Green	Extended	Round	P9ARBSV030	\$3.50
Impulse Control (T)	Green	Flush	Square	P9ASBGV030	\$3.50
Impulse Control (T)	Green	Extended	Square	P9ASBSV030	\$3.50

<sup>&</sup>lt;sup>1</sup>Caps for engineered plastic push buttons available for flush operators only

















**Specially Marked Diffusers and Inserts** For Illuminated Push Buttons and Pilot Lights 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

#### Specially Marked Diffusers and Inserts — White

For use with illuminated push buttons and diffused pilot lights only.

For round operators (polished chrome, satin chrome, round engineered plastic), order operator without lens, specially marked diffuser and lens separately. For square engineered plastic operators, order operator, insert and lens separately. Separate lenses are listed on page 9-112.

Marking Description	For use with	Operator Style	Type	Product Number	List Price GO-10GC
Stop (text)	Pilot Lights	Round	Diffuser	P9ARDLS201	\$1.00
Stop (text)	Illuminated Push Buttons	Round	Diffuser	P9ARDL3201 P9ARDPL201	\$1.00
Stop (text)	Pilot Lights, Illuminated Push Buttons	Square	Insert	080QDF201	\$1.00
Start (text)	Pilot Lights	Round	Diffuser	P9ARDLS202	\$1.00
Start (text)	Illuminated Push Buttons	Round	Diffuser	P9ARDPL202	\$1.00
Start (text)	Pilot Lights, Illuminated Push Buttons	Square	Insert	080QDF202	\$1.00
Stop (O)	Pilot Lights	Round	Diffuser	P9ARDL\$029	\$1.00
Stop (O)	Illuminated Push Buttons	Round	Diffuser	P9ARDPL029	\$1.00
Stop (O)	Pilot Lights, Illuminated Push Buttons	Square	Insert	0800DF029	\$1.00
Start (I)	Pilot Lights	Round	Diffuser	P9ARDLS028	\$1.00
Start (I)	Illuminated Push Buttons	Round	Diffuser	P9ARDPL028	\$1.00
Start (I)	Pilot Lights, Illuminated Push Buttons	Square	Insert	080QDF028	\$1.00
2nd Function	Pilot Lights	Round	Diffuser	P9ARDLS035	\$1.00
2nd Function	Illuminated Push Buttons	Round	Diffuser	P9ARDPL035	\$1.00
2nd Function	Pilot Lights, Illuminated Push Buttons	Square	Insert	080QDF035	\$1.00
3rd Function	Pilot Lights	Round	Diffuser	P9ARDLS038	\$1.00
3rd Function	Illuminated Push Buttons	Round	Diffuser	P9ARDPL038	\$1.00
3rd Function	Pilot Lights, Illuminated Push Buttons	Square	Insert	080QDF038	\$1.00
Continuous Linear Movement	Pilot Lights	Round	Diffuser	P9ARDLS006	\$1.00
Continuous Linear Movement	Illuminated Push Buttons	Round	Diffuser	P9ARDPL006	\$1.00
Continuous Linear Movement	Pilot Lights, Illuminated Push Buttons	Square	Insert	080QDF006	\$1.00
Continuous Clockwise Rotation	Pilot Lights	Round	Diffuser	P9ARDLS012	\$1.00
Continuous Clockwise Rotation	Illuminated Push Buttons	Round	Diffuser	P9ARDPL012	\$1.00
Continuous Clockwise Rotation	Pilot Lights, Illuminated Push Buttons	Square	Insert	080QDF012	\$1.00
Continuous Counter-Clockwise Rotation	Pilot Lights	Round	Diffuser	P9ARDLS013	\$1.00
Continuous Counter-Clockwise Rotation	Illuminated Push Buttons	Round	Diffuser	P9ARDPL013	\$1.00
Continuous Counter-Clockwise Rotation	Pilot Lights, Illuminated Push Buttons	Square	Insert	080QDF013	\$1.00
Feed	Pilot Lights	Round	Diffuser	P9ARDLS014	\$1.00
Feed	Illuminated Push Buttons	Round	Diffuser	P9ARDPL014	\$1.00
Feed	Pilot Lights, Illuminated Push Buttons	Square	Insert	080QDF014	\$1.00
Increase (+)	Pilot Lights	Round	Diffuser	P9ARDLS017	\$1.00
Increase (+)	Illuminated Push Buttons	Round	Diffuser	P9ARDPL017	\$1.00
Increase (+)	Pilot Lights, Illuminated Push Buttons	Square	Insert	080QDF017	\$1.00
Decrease (-)	Pilot Lights	Round	Diffuser	P9ARDLS018	\$1.00
Decrease (-) Decrease (-)	Illuminated Push Buttons Pilot Lights, Illuminated Push Buttons	Round	Diffuser Insert	P9ARDPL018	\$1.00 \$1.00
Auto		Square Round	Diffuser	080QDF018 P9ARDLS026	\$1.00
Auto	Pilot Lights Illuminated Push Buttons	Round	Diffuser	P9ARDLS026 P9ARDPL026	\$1.00
Auto	Pilot Lights, Illuminated Push Buttons	Square	Insert	080QDF026	\$1.00
Hand	Pilot Lights	Round	Diffuser	P9ARDLS027	\$1.00
Hand	Illuminated Push Buttons	Round	Diffuser	P9ARDPL027	\$1.00
Hand	Pilot Lights, Illuminated Push Buttons	Square	Insert	080QDF027	\$1.00
Engage	Pilot Lights	Round	Diffuser	P9ARDLS031	\$1.00
Engage	Illuminated Push Buttons	Round	Diffuser	P9ARDPL031	\$1.00
Engage	Pilot Lights, Illuminated Push Buttons	Square	Insert	080QDF031	\$1.00
Disengage	Pilot Lights	Round	Diffuser	P9ARDLS032	\$1.00
Disengage	Illuminated Push Buttons	Round	Diffuser	P9ARDPL032	\$1.00
Disengage	Rilot Lights, Illuminated Push Buttons	Square	Insert	080QDF03	\$1.00
Coolant	Pilot Lights	Round	Diffuser	P9ARDLS001	\$1.00
Coolant	Illuminated Push Buttons	Round	Diffuser	P9ARDPL001	\$1.00
Coolant	Pilot Lights, Illuminated Push Buttons	Square	Insert	080QDF001	\$1.00
Light	Pilot Lights	Round	Diffuser	P9ARDLS002	\$1.00
Light	Illuminated Push Buttons	Round	Diffuser	P9ARDPL002	\$1.00
Light	Pilot Lights, Illuminated Push Buttons	Square	Insert	080QDF002	\$1.00
Lubrication	Pilot Lights	Round	Diffuser	P9ARDLS005	\$1.00
Lubrication	Illuminated Push Buttons	Round	Diffuser	P9ARDPL005	\$1.00
Lubrication	Pilot Lights, Illuminated Push Buttons	Square	Insert	080QDF005	\$1.00
Impulse Control	Pilot Lights	Round	Diffuser	P9ARDLS030	\$1.00
Impulse Control	Illuminated Push Buttons	Round	Diffuser	P9ARDPL030	\$1.00
Impulse Control	Pilot Lights, Illuminated Push Buttons	Square	Insert	080QDF030	\$1.00
Blank Insert	Pilot Lights, Illuminated Push Buttons	Square	Insert	080QDF	\$1.00









(Stop)





(2nd Function)



(3rd Function)



(Continuous Linear Movement)



(Continuous Clockwise Rotation)



(Continuous



(Feed)



(Increase)



(Decrease)



(Auto)



(Hand)



(Engage)



(Disengage)



(Coolant)





(Lubrication)



(Impulse Control)



C-2000

Caps, Heads, Lenses and Handles 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC



#### For Non-Illuminated Devices

Accessory Type	For use with	Head Size	Operator Style	Color	Product Number	List Price GO-10GC
Caps	Recessed Push Buttons, Flush Push Buttons	-	Round	Black	P9ARBGN	\$1.00
Caps	Recessed Push Buttons, Flush Push Buttons	-	Round	Red	P9ARBGR	\$1.00
aps	Recessed Push Buttons, Flush Push Buttons	-	Round	Green	P9ARBGV	\$1.00
aps	Recessed Push Buttons, Flush Push Buttons	-	Round	Yellow	P9ARBGG	\$1.00
Caps	Recessed Push Buttons, Flush Push Buttons	-	Round	Brown	P9ARBGM	\$1.00
Caps	Recessed Push Buttons, Flush Push Buttons	-	Round	Blue	P9ARBGL	\$1.00
Caps	Recessed Push Buttons, Flush Push Buttons	-	Round	White	P9ARBGB	\$1.00
Caps	Recessed Push Buttons, Flush Push Buttons	_	Round	Gray	P9ARBGH	\$1.00
Caps	Recessed Push Buttons, Flush Push Buttons	<u>-</u>	Square	Black	P9ASBGN P0ASBGR	\$1.00
Caps Caps	Recessed Push Buttons, Flush Push Buttons Recessed Push Buttons, Flush Push Buttons		Square Square	Red Green	P9ASBGR P9ASBGV	\$1.00 \$1.00
Caps	Recessed Push Buttons, Flush Push Buttons		Square	Yellow	P9ASBGG	\$1.00
Caps	Recessed Push Buttons, Flush Push Buttons		Square	Brown	P9ASBGM	\$1.00
Caps	Recessed Push Buttons, Flush Push Buttons		Square	Blue	P9ASBGL	\$1.00
iaps	Recessed Push Buttons, Flush Push Buttons	_	Square	White	P9ASBGB	\$1.00
Caps	Recessed Push Buttons, Flush Push Buttons	_	Square	Gray	P9ASBGH	\$1.00
Caps	Extended Push Buttons	_	Round	Black	P9ARBSN	\$1.00
aps	Extended Push Buttons	-	Round	Red	P9ARBSR	\$1.00
aps	Extended Push Buttons		Round	Green	P9ARSBSV	\$1.00
aps	Extended Push Buttons	_	Round	Yellow	P9ARBSG	\$1.00
aps	Extended Fush Buttons	-	Round	Brown	P9ARBSM	\$1.00
aps	Extended Fush Buttons	-	Round	Blue	P9ARBSL	\$1.00
aps	Extended Fush Buttons	-,	Round	White	P9ARBSB	\$1.00
aps	Extended Push Buttons	-	Round	Gray	P9ARBSH	\$1.00
caps	Extended Fush Buttons		Square	Black	P9ASBSN	\$1.00
Caps	Extended Push Buttons		Square	Red	P9ASBSR	\$1.00
Caps	Extended Push Buttons	4	Square	Green	P9ASBSV	\$1.00
Caps	Extended Push Buttons	O.	Square	Yellow	P9ASBSG	\$1.00
Caps	Extended Push Buttons		Square	Brown	P9ASBSM	\$1.00
aps	Extended Push Buttons	-	Square	Blue	P9ASBSL	\$1.00
aps	Extended Push Buttons	W - 1	Square	White	P9ASBSB	\$1.00
aps	Extended Push Buttons		Square	Gray	P9ASBSH	\$1.00
1ushroom Heads		28 mm dia.	Round	Black	P9ARB3N	\$7.00
1ushroom Heads		28 mm dia.	Round	Red	P9ARB3R	\$7.00
1ushroom Heads		28 mm dia.	Round	Green	P9ARB3V	\$7.00
1ushroom Heads		28 mm dia.	Round	Yellow	P9ARB3G	\$7.00
1ushroom Heads		40 mm dia.	Round	Black	P9ARB4N	\$7.00
1ushroom Heads		40 mm dia.	Round	Red	P9ARB4R	\$7.00
1ushroom Heads		40 mm dia.	Round	Green	P9ARB4V	\$7.00
1ushroom Heads	<del></del>	40 mm dia.	Round	Yellow	P9ARB4G	\$7.00
1ushroom Heads		60 mm dia.	Round	Black	P9ARB6N	\$9.00
1ushroom Heads		60 mm dia.	Round	Red	P9ARB6R	\$9.00
1ushroom Heads	<del>+ + + + + + + + + + + + + + + + + + + </del>	60 mm dia.	Round	Green	P9ARB6V	\$9.00
1ushroom Heads		60 mm dia.	Round	Yellow	P9ARB6G	\$9.00
1ushroom Heads		29.7 mm sg.	Square	Black	P9ASB3N	\$7.00
1ushroom Heads	. 4	29.7 mm sq.	Square	Red	P9ASB3R	\$7.00
1ushroom Heads		29.7 mm sq.	Square	Green	P9ASB3V	\$7.00
1ushroom Heads	7	29.7 mm sq.	Square	Yellow	P9ASB3G	\$7.00
leads	Push-pull Mushroom-head Push Buttons	40 mm dia.	Round, Square	Black	P9ACB4N	\$8.00
leads	Push-pull Mushroom-head Push Buttons	40 mm dia.	Round, Square	Red	P9ACB4R	\$8.00
leads	Push-pull Mushroom-head Push Buttons	40 mm dia.	Round, Square	Green	P9ACB4V	\$8.00
eads	Push-pull Mushroom-head Push Buttons	40 mm dia.	Round, Square	Yellow	P9ACB4G	\$8.00
nobs	Knob Operated Selector Switches	-	Round, Square	Black	P9ACMNN	\$3.00
nobs	Knob Operated Selector Switches	-	Round, Square	Red	P9ACMNR	\$3.00
nobs	Knob Operated Selector Switches	-	Round, Square	Green	P9ACMNV	\$3.00
nobs	Knob Operated Selector Switches	_	Round, Square	Yellow	P9ACMNG	\$3.00
nobs	Knob Operated Selector Switches	-	Round, Square	Blue	P9ACMNL	\$3.00
evers		-	Round	Black	P9ARMVN	\$3.00
ransparent Protective Caps	Extended Push Buttons, Flush Push Buttons	-	Round	Clear	P9ARCST	\$5.00
ransparent Protective Caps	Extended Push Buttons, Flush Push Buttons	-	Square	Clear	P9ASCST	\$5.00
ransparent Protective Caps	Flush Push Buttons	-	Round	Clear	080CPT	\$5.00
ransparent Protective Caps	Flush Push Buttons	-	Square	Clear	P9ASCGT	\$5.00
Colored Protective Caps	Flush Push Buttons	-	Round	Black	080CPN	\$5.00
Colored Protective Caps	Flush Push Buttons	-	Round	Red	080CPR	\$5.00
olored Protective Caps	Flush Push Buttons	-	Round	Green	080CPV	\$5.00
Colored Protective Caps	Flush Push Buttons	-	Round	Yellow	080CPG	\$5.00
Colored Protective Caps	Flush Push Buttons	-	Square	Black	P9ASCGN	\$5.00
Colored Protective Caps	Flush Push Buttons	-	Square	Red	P9ASCGR	\$5.00
Colored Protective Caps	Flush Push Buttons	-	Square	Green	P9ASCGV	\$5.00
Colored Protective Caps	Flush Push Buttons	-	Square	Yellow	P9ASCGG	\$5.00
Protective Silicone Rubber Cap	Flush Multi-function Push Buttons	-	Multi-Function	Clear	080CPDT	\$5.00

Order quantity of 100.



**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

Rev. 1/08 Prices and data subject to change without notice

www.geelectrical.com Control Catalog

Caps, Heads, Lenses and Handles 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC



#### For Illuminated Devices

racted Lenses rused Lenses fused Lenses fuser fuser fuser fuser fuser fused Lenses fused Lenses fused Lenses fused Lenses fused Lenses fused Lenses	Pilot Lights	- - - - - - - - - - - - - - - - - - -	Round and Round Unibloc	Red Green Yellow Orange Blue White Clear Red Green Yellow Orange Blue	P9ARGLRR P9ARGLRV P9ARGLRG P9ARGLRA P9ARGLRL P9ARGLRL P9ARGLRI P9ARGLDR P9ARGLDV P9ARGLDG P9ARGLDG P9ARGLDG P9ARGLDA	\$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$5.00 \$.50 \$.50
rocted Lenses roted Lenses roted Lenses fused Lenses	Pilot Lights		Round and Round Unibloc	Yellow Orange Blue White Clear Red Green Yellow Orange	P9ARGLRG P9ARGLRA P9ARGLRL P9ARGLRB P9ARGLRI P9ARGLDR P9ARGLDV P9ARGLDOV	\$1.00 \$1.00 \$1.00 \$1.00 \$1.00 \$50 \$.50
racted Lenses racted Lenses racted Lenses racted Lenses racted Lenses racted Lenses rused Lenses rusers rusers rusers rusers rused Lenses rusers rusers rused Lenses	Pilot Lights	- - - - - - - - -	Round and Round Unibloc	Orange Blue White Clear Red Green Yellow Orange	P9ARGLRA P9ARGLRL P9ARGLRB P9ARGLRI P9ARGLDR P9ARGLDV P9ARGLDG	\$1.00 \$1.00 \$1.00 \$1.00 \$.50 \$.50
racted Lenses racted Lenses racted Lenses racted Lenses fused Lenses fuser fuser fuser fuser fuser fuser fuser fused Lenses fuser fuser fused Lenses	Pilot Lights	- - - - - - -	Round and Round Unibloc Round and Round Unibloc	Blue White Clear Red Green Yellow Orange	P9ARGLRL P9ARGLRB P9ARGLRI P9ARGLDR P9ARGLDV P9ARGLDG	\$1.00 \$1.00 \$1.00 \$.50 \$.50
racted Lenses racted Lenses racted Lenses rused Lenses ruser ruser ruser ruser ruser rused Lenses ruser rused Lenses ruser rused Lenses	Pilot Lights	- - - - - - -	Round and Round Unibloc Round and Round Unibloc	White Clear Red Green Yellow Orange	P9ARGLRB P9ARGLRI P9ARGLDR P9ARGLDV P9ARGLDG	\$1.00 \$1.00 \$.50 \$.50
racted Lenses fused Lenses fuser fuser fuser fuser fuser fuser fused Lenses fuser fused Lenses fused Lenses fused Lenses	Pilot Lights	- - - - - -	Round and Round Unibloc Round and Round Unibloc	Clear Red Green Yellow Orange	P9ARGLRI P9ARGLDR P9ARGLDV P9ARGLDG	\$1.00 \$.50 \$.50
fused Lenses¹ fusers fusers fusers fusers fusers fused Lenses¹ fused Lenses¹ fused Lenses¹	Pilot Lights	- - - - - -	Round and Round Unibloc Round and Round Unibloc Round and Round Unibloc Round and Round Unibloc Round and Round Unibloc	Red Green Yellow Orange	P9ARGLDR P9ARGLDV P9ARGLDG	\$.50 \$.50
fused Lenses¹	Pilot Lights	- - - -	Round and Round Unibloc Round and Round Unibloc Round and Round Unibloc Round and Round Unibloc	Green Yellow Orange	P9ARGLDV P9ARGLDG	\$.50
rused Lenses¹ rusers rusers rusers rusers rusers rusers rused Lenses¹ rused Lenses¹	Pilot Lights Pilot Lights Pilot Lights Pilot Lights Pilot Lights Pilot Lights	- - - -	Round and Round Unibloc Round and Round Unibloc Round and Round Unibloc	Yellow Orange	P9ARGLDG	
fused Lenses 1 fusers fusers fusers fusers fusers fusers fused Lenses 1 fused Lenses 1 fused Lenses 1 fused Lenses 1	Pilot Lights Pilot Lights Pilot Lights Pilot Lights Pilot Lights	- - -	Round and Round Unibloc Round and Round Unibloc	Orange		\$.50
fused Lenses <sup>1</sup>	Pilot Lights Pilot Lights Pilot Lights Pilot Lights	-	Round and Round Unibloc		DOVDCIDA	
fused Lenses fusers fusers fusers fusers fused Lenses fused Lenses	Pilot Lights Pilot Lights Pilot Lights	-		Blue		\$.50
fused Lenses¹ fusers fusers fusers fusers fusers fusers fused Lenses¹ fused Lenses¹	Pilot Lights Pilot Lights		Pound and Pound Unibles		P9ARGLDL	\$.50
fused Lenses¹	Pilot Lights		מטומווט מוזע הטעווע טוושטה	White	P9ARGLDB	\$.50
fused Lenses <sup>1</sup> fusers fusers fusers fusers fusers fused Lenses <sup>1</sup> fused Lenses <sup>1</sup>		-	Round and Round Unibloc	Clear	P9ARGLDI	\$.50
fused Lenses 1 fusers fusers fusers fusers fusers fusers fusers fused Lenses 1 fused Lenses 1 fused Lenses 1		-	Square	Red	P9ASGLDR	\$1.00
fused Lenses 1 fusers fusers fusers fusers fusers fusers fusers fused Lenses 1 fused Lenses 1 fused Lenses 1	FIIOL LIGITIS	-	Square	Green	P9ASGLDV	\$1.00
fused Lenses <sup>1</sup> fused Lenses <sup>1</sup> fused Lenses <sup>1</sup> fused Lenses <sup>1</sup> fusers fusers fusers fusers fusers fuserd Lenses <sup>1</sup> fused Lenses <sup>1</sup>	Pilot Lights	_	Square	Yellow	P9ASGLDG	\$1.00
fused Lenses <sup>1</sup> fused Lenses <sup>1</sup> fused Lenses <sup>1</sup> fusers fusers fusers fusers fusers fuserd fused Lenses <sup>1</sup> fused Lenses <sup>1</sup>	Pilot Lights	_	Square	Orange	P9ASGLDA	\$1.00
rused Lenses <sup>1</sup> rused Lenses <sup>1</sup> rusers rusers rusers rusers rused Lenses <sup>1</sup> rused Lenses <sup>1</sup>	Pilot Lights	_	Square	Blue	P9ASGLDL	\$1.00
rused Lenses <sup>1</sup> rusers rusers rusers rusers rusers rused Lenses <sup>1</sup> rused Lenses <sup>1</sup>	Pilot Lights	_	Square	White	P9ASGLDB	\$1.00
fusers fusers fusers fused Lenses <sup>1</sup> fused Lenses <sup>1</sup>	Pilot Lights	_	Square	Clear	P9ASGLDI	\$1.00
fusers fusers fused Lenses <sup>1</sup> fused Lenses <sup>1</sup>	Pilot Lights		Round	Clear	P9ASGLDI P9ARDLS	\$1.00
fusers fused Lenses <sup>1</sup> fused Lenses <sup>1</sup>	Push Buttons, Pilot Lights		Square	Clear	P9ANDL3 P9ASDPL2	\$.50
fused Lenses <sup>1</sup> fused Lenses <sup>1</sup>				Clear	P9ARDPL	\$.50 \$.50
<sup>f</sup> used Lenses <sup>1</sup>	Push Buttons		Round			
	Push Buttons		Round	Red	P9ARGPDR	\$.50
used Lenses <sup>1</sup>	Push Buttons		Round	Green	P9ARGPDV	\$.50
	Push Buttons		Round	Yellow	P9ARGPDG	\$.50
used Lenses1	Push Buttons	-	Round	Orange	P9ARGPDA	\$.50
fused Lenses <sup>1</sup>	Push Buttons	-	Round	Blue	P9ARGPDL	\$.50
fused Lenses <sup>1</sup>	Push Buttons	-	Round	White	P9ARGPDB	\$.50
fused Lenses <sup>1</sup>	Push Buttons	-	Round	Clear	P9ARGPDI	\$.50
fused Lenses <sup>1</sup>	Push Buttons	-	Square	Red	P9ASGPDR	\$1.00
<sup>f</sup> used Lenses <sup>1</sup>	Push Buttons		Square	Green	P9ASGPDV	\$1.00
fused Lenses <sup>1</sup>	Push Buttons		Square	Yellow	P9ASGPDG	\$1.00
fused Lenses <sup>1</sup>	Push Buttons	-	Square	Orange	P9ASGPDA	\$1.00
used Lenses <sup>1</sup>	Push Buttons		Square	Blue	P9ASGPDL	\$1.00
used Lenses <sup>1</sup>	Push Buttons	7	Square	White	P9ASGPDB	\$1.00
used Lenses <sup>1</sup>	Push Buttons		Square	Clear	P9ASGPDI	\$1.00
ss Lenses	Pilot Lights	-	Round	Red	P9ARGLVR	\$13.50
ss Lenses	Pilot Lights	-	Round	Green	P9ARGLVV	\$13.50
ss Lenses	Pilot Lights	9 2	Round	Yellow	P9ARGLVG	\$13.50
ss Lenses	Pilot Lights	-	Round	Orange	P9ARGLVA	\$13.50
ss Lenses	Pilot Lights	/ P	Round	Blue	P9ARGLVL	\$13.50
ss Lenses	Pilot Lights	<del>-</del>	Round	White	P9ARGLVB	\$13.50
ss Lenses	Pilot Lights		Round	Clear	P9ARGLVI	\$13.50
shroom Heads	Thot Eights	40 mm dia.	Round	Red	P9ARGP4R	\$7.00
shroom Heads		40 mm dia.	Round	Green	P9ARGP4V	\$7.00
shroom Heads		40 mm dia.	Round	Yellow	P9ARGP4G	\$7.00
shroom Heads		40 mm dia.	Round	Orange	P9ARGP4A	\$7.00
shroom Heads		40 mm dia.				\$7.00
			Round	Blue	P9ARGP4L	
shroom Heads		40 mm dia.	Round	White	P9ARGP4B	\$7.00
shroom Heads		40 mm dia.	Round	Clear	P9ARGP4I	\$7.00
shroom Heads		29.7 mm sq.	Square	Red	P9ASGP3R	\$7.00
shroom Heads		29.7 mm sq.	Square	Green	P9ASGP3V	\$7.00
shroom Heads		29.7 mm sq.	Square	Yellow	P9ASGP3G	\$7.00
shroom Heads		29.7 mm sq.	Square	Orange	P9ASGP3A	\$7.00
shroom Heads		29.7 mm sq.	Square	Blue	P9ASGP3L	\$7.00
shroom Heads		29.7 mm sq.	Square	White	P9ASGP3B	\$7.00
shroom Heads		29.7 mm sq.	Square	Clear	P9ASGP3I	\$7.00
bbs		-	Round, Square	Red	P9ACGSLR	\$3.00
bs		-	Round, Square	Green	P9ACGSLV	\$3.00
bs		-	Round, Square	Yellow	P9ACGSLG	\$3.00
bs		-	Round, Square	Orange	P9ACGSLA	\$3.00
bs	4 / 4	-	Round, Square	Blue	P9ACGSLL	\$3.00
bs		_	Round, Square	White	P9ACGSLB	\$3.00
bs		_	Round, Square	Clear	P9ACGSLI	\$3.00
ids	Push-pull Mushroom-head Push Buttons	40 mm dia.	Round, Square	Red	P9ACGP4R	\$8.00
ıds	Push-pull Mushroom-head Push Buttons	40 mm dia.	Round, Square	Green	P9ACGP4V	\$8.00
ids	Push-pull Mushroom-head Push Buttons	40 mm dia.	Round, Square	Yellow	P9ACGP4G	\$8.00
ids	Push-pull Mushroom-head Push Buttons  Push-pull Mushroom-head Push Buttons	40 mm dia.	Round, Square	Orange	P9ACGP4G P9ACGP4A	\$8.00
			Round, Square		P9ACGP4A P9ACGP4L	
ids A	Push-pull Mushroom-head Push Buttons	40 mm dia.		Blue		\$8.00
ids	Push-pull Mushroom-head Push Buttons	40 mm dia.	Round, Square	White	P9ACGP4B	\$8.00
ds	Push-pull Mushroom-head Push Buttons	40 mm dia.	Round, Square	Clear	P9ACGP4I	\$8.00
tective Silicone Rubber Cap	Multi-function Push Buttons	-	Flush Multi-Function	Clear	080CPDT	\$5.00
tective Silicone Rubber Cap	Multi-function Push Buttons	-	Flush Top/Extended Bottom	Clear	P9ADCST	\$5.00
nsparent Protective Caps nsparent Protective Caps	Extended Push Buttons, Flush Push Buttons Extended Push Buttons, Flush Push Buttons	-	Round Square	Clear Clear	P9ARCST P9ASCST	\$5.00 \$5.00

 $<sup>{}^{\</sup>underline{1}}\!\text{Must}$  order diffuser separately for round devices. Diffuser is built into square devices.

<sup>&</sup>lt;sup>2</sup>Order quantity—100.



**Control Catalog** www.geelectrical.com

#### C-2000

For Base-Mounted Pilot Devices 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

#### **Plastic Enclosures**

#### (NEMA 1, 3, 3R, 3S, 4, 4X, 12, 13 & IP66)

For use with operators from pages 9-65 to 9-98.

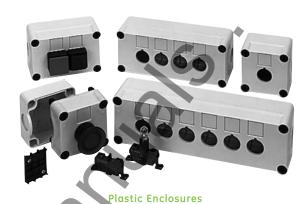
Enclosure Holes	Enclosure Color	For use with	Product Number	List Price GO-10GC
1	Gray With Yellow Cover	P9S Plastic Operators P9X Plastic Operators	P9EPEG1	\$15.00
1	Gray	P9S Plastic Operators P9X Plastic Operators	P9EPE01	\$15.00
2	Gray	P9S Plastic Operators P9X Plastic Operators	P9EPE02	\$17.50
3	Gray	P9S Plastic Operators P9X Plastic Operators	P9EPE03	\$22.50
4	Gray	P9S Plastic Operators P9X Plastic Operators	P9EPE04	\$32.00
6	Gray	P9S Plastic Operators P9X Plastic Operators	P9EPE06	\$49.00



(Self-adhesive, black background)

Marking Language	Legend Plate Marking	Product Number <sup>1</sup>	List Price GO-10GC
Symbol	<b>→</b>	P9AELN006	\$1.50
Symbol	I	P9AELN028	\$1.50
Symbol	0	P9AELN029	\$1.50
Symbol	II	P9AELN035	\$1.50
Symbol	III	P9AELN038	\$1.50
Symbol	0-I	P9AELN039	\$1.50
Symbol	I-O-II	P9AELN042	\$1.50
English	Stop	P9AELN201	\$1.50
English	Start	P9AELN202	\$1.50
English	Down	P9AELN203	\$1.50
English	Up	P9AELN204	\$1.50
English	Close	P9AELN205	\$1.50
English	Open	P9AELN206	\$1.50
English	On	P9AELN212	\$1.50
English	Off	P9AELN213	\$1.50
English	Forward	P9AELN214	\$1.50
English	Reverse	P9AELN215	\$1.50
English	Auto	P9AELN219	\$1.50
English	Left	P9AELN222	\$1.50
English	Right	P9AELN224	\$1.50
French	Arret	P9AELN301	\$1.50
French	Arriere	P9AELN302	\$1.50
French	Avant	P9AELN303	\$1.50
French	Descente	P9AELN304	\$1.50
French	Droite	P9AELN305	\$1.50
French	Gauche	P9AELN306	\$1.50
French	Marche	P9AELN308	\$1.50
French	Fermer	P9AELN309	\$1.50
French	Manuel	P9AELN312	\$1.50
French	Ouvrir	P9AELN316	\$1.50
Spanish	Cerrar	P9AELN501	\$1.50
Spanish	Adelante	P9AELN502	\$1.50
Spanish	Izquierda	P9AELN504	\$1.50
Spanish	Bajar	P9AELN505	\$1.50
Spanish	Abrir	P9AELN506	\$1.50
Spanish	Subir	P9AELN507	\$1.50
Spanish	Atras	P9AELN508	\$1.50
Spanish	Derecha	P9AELN509	\$1.50
Spanish	Marcha	P9AELN510	\$1.50
Spanish	Paro	P9AELN511	\$1.50
Spanish	Rapido	P9AELN512	\$1.50
Spanish	Rearme	P9AELN515	\$1.50
Spanish	Linea	P9AELN523	\$1.50
None	Blank	P9AELN	\$.50
Specify	Custom engraved, seven characters maximum	P9AELNEN	\$8.00

<sup>1</sup>Package quantity is five; order in multiples of five.



	List Price
Product Number	GO-10GC
P9AEMT	\$1.00

#### Mount Power Supplies (Screw Terminals Only)

Power Supply	Bulb		Product	List Price
Туре	Туре	Voltage	Number	GO-10GC
Full Voltage	Incandescent	No lamp	P9PDNBO	\$17.50
Full Voltage	Incandescent	6V	P9PDNBA	\$21.00
Full Voltage	Incandescent	12V	P9PDNBB	\$21.00
Full Voltage	Incandescent	24V	P9PDNBD	\$21.00
Full Voltage	Incandescent	48V	P9PDNBG	\$21.00
Full Voltage	Incandescent	60V	P9PDNBH	\$21.00
Full Voltage	Incandescent	130V	P9PDNBL	\$21.00
Full Voltage	LED	6V	P9PDNBAL*	\$36.00
Full Voltage	LED	12V	P9PDNBBL*	\$36.00
Full Voltage	LED	24V	P9PDNBDL*	\$36.00
Full Voltage	LED	48V	P9PDNBGL*	\$36.00
Full Voltage	LED	120V	P9PDNBJL*	\$36.00
Full Voltage	Neon	110V	P9PDNBIN	\$25.00
Full Voltage	Neon	220V	P9PDNBMN	\$25.00
Resistor	Incandescent	110-120V	P9PRNBJ <sup>2</sup>	\$14.00
Resistor	Incandescent	220-240V	P9PRNBN <sup>3</sup>	\$14.00
Diode Resistor	Incandescent	220-240V	P9PRDBN <sup>4</sup>	\$35.00
Long-Life Resistor	Incandescent	110-120V	P9PRLBJ	\$35.00

<sup>2</sup>Must be used with P9PDNBH full-voltage power supply (wired-in series).

Replace asterisk (\*) in LED product number with code from LED colors table.

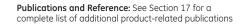
#### \*LED Colors

Colors	Red	Green	Yellow	Orange	White	Blue
*Color Code	R	V	G	А	В	L

#### **Contact Blocks (Screw Terminals Only)**

Contact Block Type	Contact Configuration	Product Number	List Price GO-10GC
Base Mount	1NO	P9B10BN	\$7.50
Base Mount	1NC	P9B01BN	\$7.50





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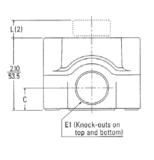
<sup>&</sup>lt;sup>3</sup>Must be used with P9PDNBL full-voltage power supply (wired-in series).

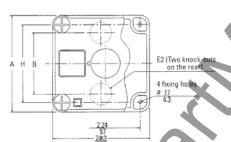
For Base-Mounted Pilot Devices
Outlines and Dimensions (mm) (For Estimating Only)
600 VAC Max., 300 VDC Max.
10 Amps Continuous AC, 2.5 Amps Continuous DC

#### Plastic Enclosures - NEMA 1, 3, 3R, 3S, 4, 4X, 12, 13 and IP66

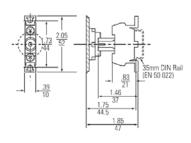
Holes	Center Distance (in/mm)	Dimension A (in/mm)	Dimension B (in/mm)	Dimension C (in/mm)	Dimension E1 Ø (in/mm)	Dimension E2 <sup>1</sup> Ø (in/mm)	Dimension H (in/mm)
1		2.83 (72)	1.81 (46)	.65 (16.5)	.91 (23)	.61 (15.5)	2.24 (57)
2	1.18 (30)	4.33 (110)	3.07 (78)	.65 (16.5)	.91 (23)	.85 (21.5)	3.74 (95)
3	1.18 (30)	5.51 (140)	4.25 (108)	.65 (16.5)	.91 (23)	.85 (21.5)	4.92 (125)
4	1.18 (30)	6.89 (175)	5.63 (143)	.65 (16.5)	.91 (23)	.85 (21.5)	6.30 (160)
6	1.18 (30)	9.25 (235)	7.87 (200)	.77 (19.5)	1.14 (29)	.91 (23)	8.66 (220)
4	1.18 (30)	6.89 (175)	5.63 (143)	.65 (16.5)	.91 (23)	.85 (21.5)	_

11-, 2-, 3-, and 4-hole enclosures suitable for cable gland, with locknut, PG16 or 1/2" NPT. 6-hole enclosure suitable for cable gland, with locknut, PG21 or 3/4" NPT.

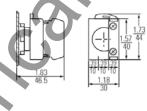




**Plastic Enclosures** 



**Base Mount Power Supply** 



Single Contact Blocks with Screw Terminals

Control Catalog www.geelectrical.com Rev. 1/08
Prices and data subject to change without notice



#### C-2000

**Enclosures** 

600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

#### Die-Cast Aluminum NEMA Type 1, 3, 3R, 4, 4X, 12 and 13

Enclosure Holes	Useful Depth (inches/mm)	Product Number <sup>1</sup>	List Price GO-10GC
1	2.83 (72)	080SP1	\$30.00
1	3.82 (97)	080SP1M	\$35.00
2	2.83 (72)	080SP2	\$35.00
2	3.82 (97)	080SP2M	\$42.00
3	3.82 (97)	080SP3	\$42.00
4	2.83 (72)	080SP4	\$43.00
4	3.82 (97)	080SP4M	\$51.00
6	3.82 (97)	080SP6	\$53.00
8	3.82 (97)	080SP8	\$63.00
12	3.82 (97)	080SP12	\$83.00
18	3.82 (97)	080SP18	\$113.00
24	3.82 (97)	080SP24	\$143.00
35	4.37 (111)	080SP35	\$198.00
-			

 $<sup>^1\</sup>mbox{Multi-function}$  push buttons (P9DPL...) are not suitable for these enclosures.

#### **Hole Location and Centerline Distances**

1010 20000001 0110 0011001 1110 01000				
Product Number	Vertical Hole Location	Vertical Centerline Distance in (mm)	Horizontal Hole Location	Horizontal Centerline Distance in (mm)
080SP2	2	1.97 (50)	_	_
080SP2M	2	1.97 (50)	_	<b>X</b> -
080SP3	3	1.97 (50)	_	-
080SP4	2	1.97 (50)	2	1.18 (30)
080SP4M	2	1.97 (50)	2	1.18 (30)
080SP6	3	1.97 (50)	2	1.18 (30)
080SP8	2	1.97 (50)	4	1.18 (30)
080SP12	3	1.97 (50)	4	1.18 (30)
080SP18	3	1.97 (50)	6	1.18 (30)
080SP24	4	1.97 (50)	6	1.18 (30)
080SP35	5	1.97 (50)	7	1.18 (30)

#### Dimensions in (mm)

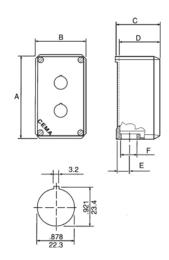
Product Number	Dimension A in (mm)	Dimension B in (mm)	Dimension C in (mm)	Dimension D in (mm)	Dimension E in (mm)	Dimension F metric type hole
080SP1	3.43 (87)	3.43 (87)	2.95 (75)	2.83 (72)	.846 (21.5)	PG21
080SP1M	3.43 (87)	3.43 (87)	3.94 (100)	3.82 (97)	.846 (21.5)	PG21
080SP2	5.71 (145)	3.43 (87)	2.95 (75)	2.83 (72)	.846 (21.5)	PG21
080SP2M	5.71 (145)	3.43 (87)	3.94 (100)	3.82 (97)	.846 (21.5)	PG21
080SP3	7.67 (195)	3.43 (87)	3.94 (100)	3.82 (97)	.846 (21.5)	PG21
080SP4	5.71 (145)	3.43 (87)	2.95 (75)	2.83 (72)	.846 (21.5)	PG21
080SP4M	5.71 (145)	3.43 (87)	3.94 (100)	3.82 (97)	.846 (21.5)	PG21
080SP6	7.67 (195)	3.43 (87)	3.94 (100)	3.82 (97)	.846 (21.5)	PG21
080SP8	5.98 (152)	5.98 (152)	3.94 (100)	3.82 (97)	1.06 (27)	PG29
080SP12	8.07 (205)	9.05 (230)	3.94 (100)	3.82 (97)	1.06 (27)	PG29
080SP18	10.12 (257)	11.81 (300)	3.94 (100)	3.82 (97)	1.37 (35)	PG36
080SP24	10.12 (257)	11.81 (300)	3.94 (100)	3.82 (97)	1.37 (35)	PG36
080SP35	13.78 (350)	13.78 (350)	4.80 (122)	4.37 (111)	1.61 (41)	PG36

### Metric to NPT Adaptors

		List Price	
Adaptor Type	Product Number	GO-10GC	
PG21 to 1/2-inch	080PG21A	\$25.00	
PG21 to 3/4-inch	080PG21B	\$25.00	
PG29 to 1-inch	080PG29C	\$25.00	
PG36 to 1-1/4-inch	080PG36D	\$25.00	



Die-Cast Aluminum Enclosures



Outlines and Dimensions (mm)
(For Estimating Only)

(gg)

**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

Rev. 1/08
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Control Catalog

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Enclosures 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

#### **Enclosure Only**

			List Price
Enclosure Material	Enclosure Holes	Product Number <sup>1</sup>	GO-10GC
Sheet Steel	1	080HEG11	\$42.00
Sheet Steel	2	080HEG12	\$45.00
Sheet Steel	3	080HEG13	\$48.00
Sheet Steel	4	080HEG14	\$54.00
Sheet Steel	6	080HEG32	\$72.00
Sheet Steel	9	080HEG33	\$84.00
Sheet Steel	12	080HEG43	\$108.00
Sheet Steel	16	080HEG44	\$138.00
Sheet Steel	24	080HEG64	\$216.00
Sheet Steel	30	080HEG65	\$240.00
Stainless Steel	1	080HES11	\$102.00
Stainless Steel	2	080HES12	\$120.00
Stainless Steel	3	080HES13	\$132.00
Stainless Steel	4	080HES14	\$156.00
Stainless Steel	6	080HES32	\$198.00
Stainless Steel	9	080HES33	\$312.00
Stainless Steel	12	080HES43	\$336.00
Stainless Steel	16	080HES44	\$432.00
Stainless Steel	24	080HES64	\$660.00
Stainless Steel	30	080HES65	\$780.00

<sup>&</sup>lt;sup>1</sup>Multi-function push buttons (P9DPL...) are not suitable for these enclosures.



Section 9

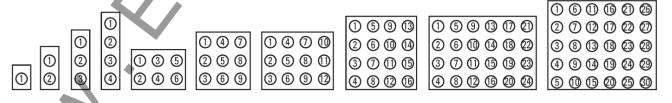
Sheet Steel and Stainless Steel Enclosures

#### **Assembled Unwired Stations**

When ordering assembled, unwired stations, specify units and nameplates by hole arrangement. Prices do not include operators, terminals, nameplates, etc.

			List Price
Enclosure Material	Enclosure Holes	Product Number <sup>1</sup>	GO-10GC
Sheet Steel	1	080HEG11B	\$60.00
Sheet Steel	2	080HEG12B	\$69.00
Sheet Steel	3	080HEG13B	\$78.00
Sheet Steel	4	080HEG14B	\$90.00
Sheet Steel	6	080HEG32B	\$120.00
Sheet Steel	9	080HEG33B	\$150.00
Sheet Steel	12	080HEG43B	\$192.00
Sheet Steel	16	080HEG44B	\$246.00
Sheet Steel	24	080HEG64B	\$378.00
Sheet Steel	30	080HEG65B	\$432.00
Stainless Steel	1	080HES11B	\$120.00
Stainless Steel	2	080HES12B	\$144.00
Stainless Steel	3	080HES13B	\$162.00
Stainless Steel	4	080HES14B	\$192.00
Stainless Steel	6	080HES32B	\$246.00
Stainless Steel	9	080HES33B	\$378.00
Stainless Steel	12	080HES43B	\$420.00
Stainless Steel	16	080HES44B	\$540.00
Stainless Steel	24	080HES64B	\$822.00
Stainless Steel	30	080HES65B	\$972.00

 $<sup>^1\</sup>mbox{Multi-function}$  push buttons (P9DPL), ) are not suitable for these enclosures.



**Hole Arrangements** 

9-1.16 Control Catalog www.geelectrical.com Rev. 1/08
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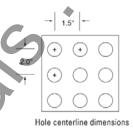
C-2000

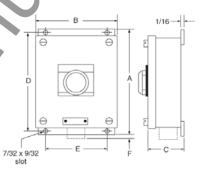
Enclosures
Outlines and Dimensions [in.(mm)] (For Estimating Only)
600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

#### **Enclosure Only**

Effetosar	Comy						
Product Number	Dimension A in (mm)	Dimension B in (mm)	Dimension C in (mm)	Dimension D in (mm)	Dimension E in (mm)	Dimension F in (mm)	Hub Dimension (in)
080HEG11	5.50 (139.7)	3.50 (88.9)	4.25 (108.0)	5.00 (127.0)	2.38 (60.4)	.31 (7.9)	0.75
080HEG12	7.75 (196.8)	3.50 (88.9)	4.25 (108.0)	7.25 (184.2)	2.38 (60.4)	.31 (7.9)	0.75
080HEG13	10.00 (254.0)	3.50 (88.9)	4.25 (108.0)	9.50 (241.3)	2.38 (60.4)	.31 (7.9)	0.75
080HEG14	13.38 (339.8)	3.50 (88.9)	4.25 (108.0)	12.88 (327.2)	2.38 (60.4)	.31 (7.9)	1
080HEG32	8.25 (209.6)	6.50 (165.1)	4.25 (108.0)	7.75 (196.8)	5.88 (149.4)	.31 (7.9)	1
080HEG33	10.50 (266.7)	9.25 (235.0)	4.25 (108.0)	10.00 (254.0)	5.88 (149.4)	.31 (7.9)	1.25
080HEG43	10.50 (266.7)	9.25 (235.0)	4.25 (108.0)	10.00 (254.0)	8.19 (208.0)	.31 (7.9)	1.5
080HEG44	12.75 (323.8)	11.50 (292.1)	4.25(108.0)	12.25 (311.2)	8.19 (208.0)	.31 (7.9)	1.5
080HEG64	12.75 (323.8)	11.50 (292.1)	4.25 (108.0)	12.25 (311.2)	10.38 (263.6)	.31 (7.9)	1.5
080HEG65	15.00 (381.0)	11.50 (292.1)	4.25 (108.0)	14.50 (368.3)	10.38 (263.6)	.38 (9.6)	1.5
080HES11	5.50 (139.7)	3.50 (88.9)	4.25 (108.0)	5.00 (127.0)	2.38 (60.4)	.31 (7.9)	0.75
080HES12	7.75 (196.8)	3.50 (88.9)	4.25 (108.0)	7.25 (184.2)	2.38 (60.4)	.31 (7.9)	0.75
080HES13	10.00 (254.0)	3.50 (88.9)	4.25 (108.0)	9.50 (241.3)	2.38 (60.4)	.31 (7.9)	0.75
080HES14	13.38 (339.8)	3.50 (88.9)	4.25 (108.0)	12.88 (327.2)	2.38 (60.4)	.31 (7.9)	1
080HES32	8.25 (209.6)	6.50 (165.1)	4.25 (108.0)	7.75 (196.8)	5.88 (149.4)	.31 (7.9)	1
080HES33	10.50 (266.7)	9.25 (235.0)	4.25 (108.0)	10.00 (254.0)	5.88 (149.4)	.31 (7.9)	1.25
080HES43	10.50 (266.7)	9.25 (235.0)	4.25 (108.0)	10.00 (254.0)	8.19 (208.0)	.31 (7.9)	1.5
080HES44	12.75 (323.8)	11.50 (292.1)	4.25(108.0)	12.25 (311.2)	8.19 (208.0)	.31 (7.9)	1.5
080HES64	12.75 (323.8)	11.50 (292.1)	4.25 (108.0)	12.25 (311.2)	10.38 (263.6)	.31 (7.9)	1.5
080HES65	15.00 (381.0)	11.50 (292.1)	4.25 (108.0)	14.50 (368.3)	10.38 (263.6)	.38 (9.6)	1.5





Sheet- and stainless-steel enclosures

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**Enclosure Only Forms** 

**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

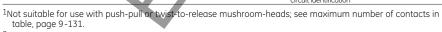
Rev. 1/08 Prices and data subject to change without notice

www.geelectrical.com Control Catalog

Accessories 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

#### Accessories

Accessory Type	Operator Style			Description	Product Number	List Price GO-10G
Locking Ring Wrench	Round, Square	-	-	For tightening of metal locking ring	P9ACWAF	\$7.50
Printed Circuit	Round, Square	Contact Blocks	_	Use with contact blocks	P9ACA6	\$4.00
Board Adapter		Power Supplies with		and power supplies with		
		Quick-connect Terminals		quick-connect terminals;		
				to solder connection		
				printed circuit board		
Flange	Round, Square	3 Contact Blocks	_	Standard flange provided	P9ACFS3	\$3.00
				with all operators	1	
Flange	Round, Square	5 Contact Blocks	_	Optional flange for	P9ACFS5 <sup>1</sup>	\$4.50
				of maximum number		
				mounting of contact blocks		
Flange	Round, Square	Reed Logic Blocks	_	Optional for Reed block	P9ACFSM	\$4.50
		Power Supplies		and power supply		
Padlocking	Round, Square	Extended Push Buttons	_	Limits access to push	P9ACRCL	\$15.00
Device with		Flush Push Buttons		buttons (flush and		
Clear Cover		Knob Selector Switches		extended) and knob		
				selector switch		
Extended	Round	Mushroom-head	40 mm	Prevents accidental	P9ARRE4	\$10.00
Guard		Push Buttons	diameter	actuation of mushroom		
				-head push button		
Orientation	Round	_	_	Allows mounting of	P9ARAND	\$2.00
Tab Bypass				devices in panels	. `	
Ring				without locating notch		
Orientation	Round	_	_	Extends operator	P9ARADE	\$2.00
Tab Extender				tab from 1.5 to 2.5 mm		
				allowing mounting of devices	44	
				on very thick panels		
Ring Reducer,	Round	C-2000 Devices		Adapter allows	P9ARAX32	\$7.50
Black Plastic			_	C-2000 devices to		
				be mounted in 30mm		
				diameter hole		
Ring Reducer,	Round	C-2000 Devices	_	Adapter allows	P9ARAM32	\$7.50
Polished				C-2000 devices to		
Chrome				be mounted in 30mm		
				diameter hole		
Cap and	Round	_	_	Provides easy removal	P9ASEBG	\$7.00
Lens Extractor				of caps and lenses		
Lamp Extractor	Round, Square	-	-	Provides easy removal of bulbs	080ESL	\$4.00
Enclosure	Round	_	_	Plugs unused	P9ARHPR	\$5.00
Hole Plug,				holes in panel		
Black Plastic						
Enclosure Hole	Square	_	<b>—</b>	Plugs unused	P9ASHP3	\$5.00
Plug, 30 x 30 mm,	·			holes in panel		
Black Plastic						
Enclosure Hole	Square	_	4/-	Plugs unused	P9ASHP5	\$5.00
Plug, 30 x 50 mm	- 1			holes in panel		
Black Plastic						
Push-On/	Round, Square	-	7-6	Converts a momentary	P9ACDPP <sup>2</sup>	\$26.00
Push-Off Device				push button into a		
				maintained push button		
Assembled 4-Device		-	7-	Handy display of	P9ACT04	\$120.00
Tabletop Display				C-2000 push buttons		+0.00
Assembled 16-Device				Handy display of	P9ACT16	\$250.00
Tabletop Display				C-2000 push buttons	. 3/10/110	QE30.00
Sample Case				Portable overview of	P9ACKITU	\$250.00
Juli libie Case			_	C-2000 push buttons	1 SACKITU	ψ <b>2</b> 30.00
Marking Plate, White	Round, Square	Contact Blocks		Snaps on back of	P9ACPIU <sup>3</sup>	\$.25
marking riute, write	Nouriu, Square	COLITACT DIOCKS	_	contact block for	1 JACETUS	φ.25



 $<sup>^2\</sup>mbox{Use}$  only early make contact (P9B10VA) when normally open contact is desired.





Printed Circuit Board Adapter



Flanges



Padlocking Device with Clear Cover



**Lamp Extractor** 



Push-on/Push-off Device



<sup>&</sup>lt;sup>3</sup>Packaged in multiples of 5, order in multiples of 5.

#### C-2000

**Accessories** 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

#### Keys

Кеу Туре	Key Number	Product Number	GO-10GC
Standard	#3095	077C3095 <sup>1</sup>	\$1.50
Special	#3353	077C3353 <sup>1</sup>	\$2.00
Special	#9901	077C9901 <sup>1</sup>	\$2.00
Special	#9902	077C9902 <sup>1</sup>	\$2.00
Special	#9903	077C9903 <sup>1</sup>	\$2.00
Special	#9904	077C9904 <sup>1</sup>	\$2.00
Special	#9905	077C9905 <sup>1</sup>	\$2.00
Special	#9910	077C9910 <sup>1</sup>	\$2.00
Special	#9916	077C9916 <sup>1</sup>	\$2.00
Special	#9919	077C9919 <sup>1</sup>	\$2.00
Special	#R455 (Ronis key)	077CR455 <sup>1</sup>	\$2.00
Colored	#73033	077CF73033 <sup>1</sup>	\$2.00
Colored	#73034	077CF73034 <sup>1</sup>	\$2.00
Colored	#73037	077CF73037 <sup>1</sup>	\$2.00
Colored	#73038	077CF73038 <sup>1</sup>	\$2.00
Colored	#73040	077CF73040 <sup>1</sup>	\$2.00

<sup>&</sup>lt;sup>1</sup>Package quantity is five; order in multiples of five. All include 2 Keys.

#### Lamps

				List Price
Bulb Type	Voltage	Watts	Product Number	GO-10GC
Incandescent	6 VAC/DC	0.6	BA9S606	\$3.00
Incandescent	6 VAC/DC	1.5	BA9S615	\$3.00
Incandescent	12 VAC/DC	2	BA9S122	\$3.00
Incandescent	24 VAC/DC	2	BA9S242	\$3.00
Incandescent	48 VAC/DC	2	BA9\$48	\$3.00
Incandescent	60 VAC/DC	1.2	BA9S6012	\$3.00
Incandescent	130 VAC/DC	2	BA9S130	\$3.00
Neon	110 VAC <sup>2</sup>	0.077	BA9SN110	\$7.00
Neon	220 VAC <sup>3</sup>	0.33	BA9SN220	\$7.00
LED	6 VAC/DC	0.59	080BA9S6L*	\$18.00
LED	12 VAC/DC	0.78	080BA9S12L*	\$18.00
LED	24 VAC/DC	0.84	080BA9S24L*	\$18.00
LED	48 VAC/DC	1.12	080BA9S48L*	\$18.00
LED	120 VAC/DC	1.4	080BA9S120L*	\$18.00

<sup>&</sup>lt;sup>2</sup>94 AC minimum starting voltage

Replace asterisk (\*) in LED Type product number from Colors table below.

#### \*LED Colors

Colors	Red	4	Green	Yellow	Orange	White	Blue
*Color Code	R		V	G	А	В	L





**Enclosure Hole Plugs** 



**Locking Ring Wrench** 



Ring Reducers, Black Plastic and Polished Chrome



Assembled 16-Device Tabletop Display





Publications and Reference: See Section 17 for a complete list of additional product-related publications

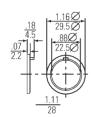
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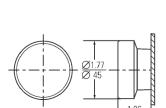
<sup>&</sup>lt;sup>3</sup>186 AC minimum starting voltage

C-2000 Accessories

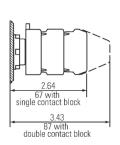
Outlines, Dimensions (mm/mm) (For Estimating Only) 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC



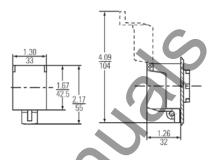
**Orientation Tab Extender** 



Extended Guard for 40 mm Mushroom-Head Push Button

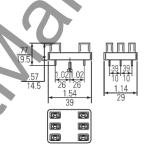


Push-On/Push-Off Device



Section 9

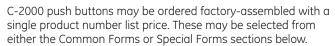
Padlocking Attachment



**Printed Circuit Board Adapter** 

C-2000

**Assembled Forms** 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC



#### Common Forms

Listed below are the most commonly ordered assembled push button devices. These devices are shipped factory-assembled with contact blocks and/or power supplies mounted on the operator. For assembled devices not listed, see the Special Forms section on page 9-123 for data on developing product number and list price. All assembled devices carry an assembly charge of \$5.00, which is reflected in the List Price, GO-10GC, shown. Minimum order quantity is 10 per item. For smaller quantities, order individual components from pages 9-65 to 9-119.

Complete the assembled device product number by substituting the desired operator style (#), operator color (\*), and/or lens color (\*) with the appropriate digits from the tables below.

#### Operator Style (Third digit in Product Number)

Style	Polished Chrome	Satin Chrome	Round Engineered Plastic	Square Engineered Plastic
#Style Code	С	М	Х	S

#### \*Operator Color for Non-Illuminated Devices

Color	Red	Green	Yellow	Blue	White	Brown	Grey Black	
*Color Code	R	V	G	L	В	М	H N	

#### \*Lens Color for Illuminated Devices

Color	Red	Green	Yellow	Blue	White	Orange	Clear
*Color Code	R	V	G	L	В	А	1

			List Price.	Consists of Components		
Operator Type	Description	Product Number	GO-10GC	Operator	Contact Block(s)	Power Supply
	1NO	P9#PN*GN10N0	\$21.00	P9#PN*G	P9B10VN	_
Standard push button, flush	1NC	P9#PN*GN20N0	\$21.00	P9#PN*G	P9B01VN	_
Button, nuon	1NO-1NC	P9#PN*GN30N0	\$28.50	P9#PN*G	P9B11VN	-
	1NO	P9#PN*SN10N0	\$21.00	P9#PN*S	P9B10VN	-
Standard push button, extended	1NC	P9#PN*SN20N0	\$21.00	P9#PN*S	P9B01VN	_
batton, extended	1NO-1NC	P9#PN*SN30N0	\$28.50	P9#PN*S	P9B11VN	_
	1NO	P9#PN*EN10N0	\$21.00	P9#PN*E <sup>1</sup>	P9B10VN	_
Standard push button, recessed	1NC	P9#PN*EN20N0	\$21.00	P9#PN*E <sup>1</sup>	P9B01VN	_
batton, recessed	1NO-1NC	P9#PN*EN30N0	\$28.50	P9#PN*E <sup>1</sup>	P9B11VN	_
	Momentary, 1 NC	P9#EM4RNN20N0	\$29.00	P9#EM4RN	P9B01VN	_
Mushroom-head push button.	Push-pull, maintained, 1NC	P9#ET4RN1200	\$34.00	P9#ET4RN1	P9B01VN	_
	Push-to-latch—turn-to-release, 1NC, polished chrome	P9CER4RNN20N0	\$51.00	P9CER4RN	P9B01VN	_
	Push-to-latch—turn-to-release, 1NC, satin chrome	P9MER4RNN20N0	\$51.00	P9MER4RN	P9B01VN	_
	Push-to-latch—turn-to-release, 1NC, positive-action, round engineered plastic	P9XER4RAN20N0	\$51.00	P9XER4RA	P9B01VN	-
40mm diameter, red	Push-to-latch—turn-to-release, 1NC, positive-action, square engineered plastic	P9SER4RAN20N0	\$51.00	P9SER4RA	P9B01VN	-
	Push-to-latch—key release, 1NC, standard key, polished chrome	P9CEC4RN95N20N0	\$66.00	P9CEC4RN95	P9B01VN	_
	Push-to-latch—key release, 1NC, standard key, satin chrome	P9MEC4RN95N20N0	\$66.00	P9MEC4RN95	P9B01VN	_
	Push-to-latch—key release, 1NC, standard key, positive-action, round engineered plastic	P9XEC4RA95N20N0	\$66.00	P9XEC4RA95	P9B01VN	-
	Push-to-latch—key release, 1NC, standard key, positive-action, square engineered plastic	P9SEC4RA95N20N0	\$66.00	P9SEC4RA95	P9B01VN	-
Illuminated push	24 V, full-voltage, 1NO-1NC	P9#PL*SDN12NADI	\$51.50	P9#PL*SD	P9B10VN, P9B01VN	P9PDNVD
button, extended continued on next page	120 V, full-voltage, 1NO-1NC	P9#PL*SDN12NALI	\$51.50	P9#PL*SD	P9B10VN, P9V01VN	P9PDNVL
, , ,	120 V, transformer, 1NO-1NC	P9#PL*SDN30NGJI	\$73.00	P9#PL*SD	P9B11VN	P9PTNVJ

Not available in Round Engineered Plastic



Publications and Reference: See Section 17 for a complete list of additional product-related publications

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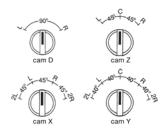
C-2000

**Assembled Forms** 600 VAC Max., 300 VDC Max.

10 Amps Continuous AC, 2.5 Amps Continuous DC

			List Price,	Consists of Components		
Operator Type	Description	Product Number	GO-10GC	Operator	Contact Block(s)	Power Supply
	24 V, full-voltage, 1NO-1NC, round	P9#EM4*LN12NADI	\$57.50	P9#EM4*L	P9B10VN, P9B01VN	P9PDNVD
Illuminated	24 V, full-voltage, 1NO-1NC, 29 mm square	P9SEM3*LN12NADI	\$57.50	P9SEM3*L	P9B10VN, P9B01VN	P9PDNVD
mushroom-head push button,	120 V, full-voltage, 1NO-1NC, round	P9#EM4*LN12NALI	\$57.50	P9#EM4*L	P9B10VN, P9B01VN	P9PDNVL
momentary, 40 mm diameter	120 V, full-voltage, 1NO-1NC, 29 mm square	P9SEM3*LN12NALI	\$57.50	P9SEM3*L	P9B10VN, P9B01VN	P9PDNVL
	120 V, transformer, 1NO-1NC, round	P9#EM4*LN30NGJI	\$79.00	P9#EM4*L	P9B11VN	P9PTNVJ
	120 V, transformer, 1NO-1NC, 29 mm square	P9SEM3*LN30NGJI	\$79.00	P9SEM3*L	P9B11VN	P9PTNVJ
Illuminated mushroom-head push button, push-pull maintained	24 V, full-voltage, 1NO-1NC, round	P9#ET4*L112ADI	\$64.50	P9#ET4*L1	P9B10VN, P9B01VN	P9PDNVD
	120 V, full-voltage, 1NO-1NC, round	P9#ET4*L112ALI	\$64.50	P9#ET4*L1	P9B10VN, P9B01VN	P9PDNVL
	120 V, transformer, 1NO-1NC, round	P9#ET4*L130GJI	\$86.00	P9#ET4*L1	P9B11VN	P9PTNVJ
	24 V, full-voltage	P9#L*DADI	\$32.00	P9#L*D	-	P9PDNVD
Pilot light, diffused	120 V, full-voltage	P9#L*DALI	\$32.00	P9#L*D	_	P9PDNVL
amasea	120 V, transformer	P9#L*DGJI	\$53.50	P9#L*D	-	P9PTNVJ
	24 V, full-voltage	P9#L*RADI	\$32.00	P9#L*R	_	P9PDNVD
Pilot light, refracted	120 V, full-voltage	P9#L*RALI	\$32.00	P9#L*R	_	P9PDNVL
	120 V, transformer	P9#L*RGJI	\$53.50	P9#L*R	_	P9PTNVJ
	2-position, maintained, 90° throw, 1NO-1NC	P9#SMD0NN12N0	\$34.50	P9#SMD0N	P9B10VN, P9B01VN	_
Selector switch with black knob	3-position, maintained, 45° throw, 1NO-1NC	P9#SMZ0NN12N0	\$34.50	P9#SMZ0N	P9B10VN, P9B01VN	_
(see below)	4-position, 45° throw, 2NO-2NC	P9#SMX0NN33N0	\$49.50	P9#SMX0N	(2) P9B11VN	-
13ce Delow)	5-position, 40° throw, 2NO-2NC	P9#SMY0NN33N0	\$61.00	P9#SMY0N	(2) P9B11VN	_

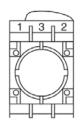
	Cam Code (6th digit						Screw Termina	l Contact Block
Гуре	in Product Number)	Co	am Position	1			Position 1	Position 2
		lacktriangle	•	$\odot$				
2 Position	D	0	_	Х	X A		_	P9B10VN
		X	_	0			P9B01VN	_
3 Position	Z	0	0	X			P9B10VN	_
		X	0	0			_	P9B10VN
		left	lacktriangle	<b>O</b>	• •			
Position	Χ	0	X	0	O X		P9B11VN	_
		O X	0	×	0		-	P9B11VN
		Ð	0	•	•	Θ		
Position	Υ	0	Х	0	0	0	00011141	
		0	0	0	0	Χ	P9B11VN	_
		0	0	0	Х	0	-	DOD 111/N
		X	0	0	0	0	_	P9B11VN



Section 9

**Consists of Components** 

**Operator Positions** 



**Contact Block Positions** (viewed from rear)

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Assembled Forms–Illuminated Devices 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

To specify and order special forms of assembled devices, first select the operator from pages 9-65 to 9-98. With the operator's number as a prefix, determine the number of contact blocks and choose a 3- or 5-position flange from Table 1 below.

Where the asterisk (\*) appears, complete the appropriate product number digit with the contact block digit shown in Table 2. Note the flange position corresponds to the number shown above the asterisk. If no contact block is selected for this position, enter 0. If the device is illuminated, it will be necessary to insert the 3 power supply digits shown in the power supply tables in place of \$\$\$ at the end of the product number.

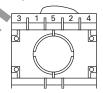
**Product Number** = [Operator Number + Contact Block Code + Power Supply]. Contact block code may be 5, 4 or 2 digits. No contact codes are used on Pilot Lights.

**Pricing:** Add list price for the operator + contact blocks adder (for each position) + Power Supply (if applicable) plus **\$5.00** assembly charge, GO-10GP. Minimum order quantity is **10 per item**. For smaller quantities order individual components from pages 9-65 to 9-119.

#### Special Forms-Table 1



Flange Position (viewed from rear) - 3-Position Flange

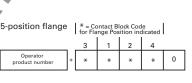


Contast Block Position (viewed from rear) – 5-Position Flange

#### Non-Illuminated Push Buttons and Selector Switches (except Push-Pull and Multifunction Push Buttons)



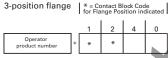




No. of Blocks	No. of Contacts			
3 or 4 4-8 <sup>1</sup>				
<sup>1</sup> Selector switch 4 max.				

#### Non-Illuminated Push-Pull and Multifunction Push Button







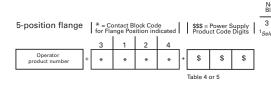
5-position flange

Not Available

#### Illuminated Push Buttons and Selector Switches (except Push-Pull and Multifunction Push Buttons)

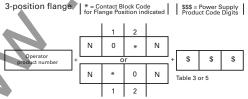
#### Power Supply: Full Voltage or Long Life Resistor



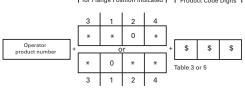


#### Illuminated Push Buttons and Selector Switches (except Push-Pull and Multifunction Push Buttons)

Power Supply: Transformer, Panel Test (all), Standard Resistor



5-nosition flange   * = Contact Block Code       \$88 - Power Supply	and Multifunctio	n Push Buttons)	
5-position flange   * = Contact Block Code   \$\$\$ = Power Supply   1   1   1   1   1   1   1   1   1	5-position flange	* = Contact Block Code for Flange Position Indicated	\$\$\$ = Power Supply Product Code Digits 1 <sub>S</sub>



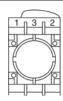


**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

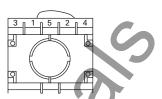
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**Assembled Forms-Illuminated Devices** 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

Special Forms-Table 1 (continued)



Flange Position (viewed from rear) - 3-Position Flange



Contact Block Position (viewed from 5-Position Flange

#### Illuminated Push Buttons (except Push-Pull) and Selector Switches



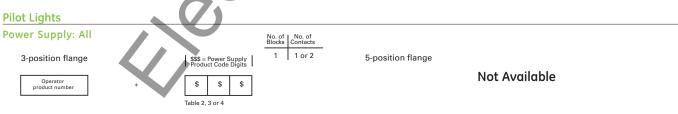
#### Illuminated Push Buttons Push-Pull and Multifunction



#### Illuminated Push Buttons Push-Pull and Multifunction



#### **Pilot Lights**



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Assembled Forms 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

#### Contact Blocks-Table 2

Terminal Type	Contacts	Possible Flange Position(s)	Product No. Digit	List Price, GO-10GC
No contact block			0	\$0.00
	1 NO		1	\$7.50
Screw	1NC		2	\$7.50
	1NO-1NC		3	\$15.00
	1 NO early make		6	\$7.50
	1NC late opening		7	\$7.50
Quick Connect	1 NO		4	\$7.50
	1 NC		5	\$7.50

#### **Transformer Power Supplies-Table 3**

				Lam	р Туре	
			Incand	escent	LE	D
Transformer Type	Voltage (ac)	Possible Flange Position(s)	Product No. Digits	List Price, GO-10GC	Product No. Digits	List Price, GO-10GC
	48		GGI	\$42.50	GGL	\$57.50
	60		GHI	\$42.50	GHL	\$57.50
	110-120		GJI	\$42.50	GJL	\$57.50
Standard	220-250		GNI	\$42.50	GNL	\$57.50
Screw	277-280		GRI	\$42.50	GRL	\$57.50
Terminal	380		GUI	\$42.50	GUL	\$57.50
	415-440		GWI	\$42.50	GWL	\$57.50
	480-500		GYI	\$42.50	GYL	\$57.50
	550-600		GZI	\$45.00	GZL	\$57.50
	48		IGI	\$72.50	IGL	\$87.50
	60		IHI	\$72.50	IHL	\$87.50
	110-120		IJ	\$72.50	IJL	\$87.50
Standard	220-250		INI	\$72.50	INL	\$87.50
Screw Terminal.	277-280		IRI	\$72.50	IRL	\$87.50
Flashing	380		IUI	\$72.50	IUL	\$87.50
	415-440		IWI	\$72.50	IWL	\$87.50
	480-500		IYI	\$72.50	IYL	\$87.50
	550-600	X	IZI	\$72.50	IZL	\$87.50

Shaded area indicates required or allowable alternative positions in flange.



**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

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Full Voltage Power Supplies-Table 4



					Lamp	Туре		•
			Incand	lescent	LI	ED	Neo	n
FV Power Supply Type	Voltage (AC/DC)	Possible Flange Position(s)	Product No. Digits	List Price, GO-10GC	Product No. Digits	List Price, GO-10GC	Product No. Digits	List Price, GO-10GC
	6		AAI	\$21.00	AAL	\$36.00	-	-
	12	_	ABI	\$21.00	ABL	\$36.00		-
	24	_	ADI	\$21.00	ADL	\$36.00		-
Standard	48		AGI	\$21.00	AGL	\$36.00		-
Screw Terminal	110		_	_	_	-	AIN	\$25.00
	120 (ac)		_	_	AJL	\$36.00	<b>-</b>	_
	130	_	ALI	\$21.00	_	-	_	-
	220		_	_	_	4	AMN	\$25.00
	6		BAI	\$21.00	BAL	\$36.00	-	-
	12		BBI	\$21.00	BBL	\$36.00	_	-
	24	_	BDI	\$21.00	BDL	\$36.00	-	-
Quick 48		BGI	\$21.00	BGL	\$36.00	-	-	
Connect Terminal	110		_	_		_	BIN	\$25.00
	120 (ac)	_	_	_	BJL	\$36.00	-	_
	130		BLI	\$21.00	<b>*</b>	_	_	-
	220		_	_		_	BMN	\$25.00
Screw	24		FDI	\$51.00	FDL	\$66.00	_	-
Terminal, Flashing	120 (ac)		FJI	\$51.00	FJL	\$66.00	-	-
	6		EAI	\$36.00	EAL	\$51.00	-	-
	12	_	EBI	\$36.00	EBL	\$51.00	_	-
	24		EDI	\$36.00	EDL	\$51.00	-	-
Terminal. ———	48		EGI	\$36.00	EGL	\$51.00	-	_
	110	_		1 -1	-	_	EIN	\$40.00
	120 (ac)				EJL	\$51.00	-	-
	130		ELI	\$36.00	-	_	-	_
	220	_	_		_	_	EMN	\$40.00

# Resistor Power Supplies-Table 5

(Screw terminals and incandescent lamps on

Туре	Input Voltage AC/DC	Product Possible Flange Positions No. Digits	List Price, GO-10GC
Standard	110-120	III	\$35.00
Resistor	220-240	JNI	\$35.00
Resistor with Diode	220-240 (ac)	LNI	\$35.00
Long Life Resistor	110	NJI	\$35.00
Standard Resistor, Panel Test	220-240	QNI	\$50.00

Shaded area indicates required or allowable alternative positions in flange.

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**Technical Data** 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC



# **General Specifications**

Conformity to standards	UL508 (USA)  NEMA ICS-2 (USA)  VDE 0660 (Germany)  BSI (Great Britain) CEI EN60947.5. 1 (Italy) CENELEC EN 5000 7 (Europe)  CSA C22.2 No. 14-M91 (Canada) IEC 947.5. 1 (International) UTE (France) NFC 63140 (France) JIS (Japan)			
Approvals	UL listed —File Number E66677 CSA Certified —File Number 16661-63 Manufacturing facility is registered to ISO 9000			
Finger protection at terminals	IP2X according to IEC 529 Terminal identification per CENELEC EN 50013			
Enclosure ratings	Suitable for use in <b>NEMA Types 1, 3, 3R, 3S, 4, 4X, 12, and 13</b> enclosures. [Multi-function push buttons are suitable for NEMA Type 1 enclosures only unless used with protective rubber cap accessory.] <b>IP66</b> per IEC 529, when mounted in enclosures with equal or superior seal.			
Ambient temperature	Operating         Storage           -13° to + 158°F         -40° to + 158°F           -25° to + 70°C         -40° to + 70°C			
Climate suitablility/humidity	Climate Type         Temperature         Relative Humidity           Temperature         74°F (23°C)         50%           Wet         74°F (23°C)         83%           Hot Wet         104°F (40°C)         92%           Variable Wet         74° to 104°F (23° to 40°C)         83% to 92%			
Resistance to vibration	Per IEC 68-2-6. 16g with a frequency from 40-500 Hz and maximum peak-to-peak amplitude of 0.75mm.			
Resistance to shock	According to MIL 202B, method 202A. Test was performed for 1/2 sinusoid for 11ms, 38g max for all operators with transformers and 100g for all other operators.			
Operating force	Standard push button operator: 2.5 lbs. (11N) Each contact block: 1.3 lbs. (6N) Selector switch operator: 2.4 inlb. (0.27 N-m)			

#### **Wire Terminals**

Suitable for #22-#12 AWG stranded or solid copper wires, single or parallel conductors of same size. Terminal torque: 7-12 in/lb. Parallel

conductor size combinations (stranged or solid wire
Darallal Conductor Cita Combin

	Parallel Conductor Size Combinations (Stranded or Solid Wire)	Terminal Torque
Wire capacity and terminal torque requirements (for all power supplies and contact blocks)	#12 with #14 #14 with #16 #16 with #18 #16 with #20 #16 with #22 #18 with #22 #18 with #20 #18 with #20	12 inlb. 12 inlb. 12 inlb. 12 inlb. 12 inlb. 12 inlb. 10-12 inlb. 10-12 inlb.
	#20 with #22	7-12 inlb.
Quick connect terminals	Suitable for one female tab connector measuring 0.25 x 0.03 inches (6.35 x 0.8 mm) or two female tab connections (2.8 x 0.8 mm)	tors measuring 0.11 x 0.03

Contact Data		,								
Electrical reliability data	Electrical life and reli million operations.)	ability in low lev	el current: 80 m	illion operation	ns at 12V, 5mA	A, resistive load	d. (32 contacts	tested succe	essfully for 2.5	
Dust resistance	In extremely dusty en environment, electric							ve load. In a	clean	
Thermal current	Ith = 10A per IEC 947	-5-1								
Insulation voltage	Ui = 660 Volts ac/dc	opposite polarit	y) except 2NO c	ınd 2NC blocks	s 300 Vac/dc					
Protection from electrical shock		Class I per IEC 536 for metal operators Class II (double insulation) per IEC 536 for plastic operators								
Insulation category	Group "C" per VDE 02	.10								
Dielectric strength	2500 Volts									
Short circuit protection	10A type gG fuse, pe	r IEC 269.1 & 26	9.3							
	A600 (maximum m	ake volt-ampere	s = 7200; maxir	num break vol	t-amperes = 7	'20; PF = .25)				
	Volts (V) Continuous (A) Making (A) Breaking (A)	12 10 60 10	24 10 60 10	48 10 60 10	60 10 60 10	120 10 60 6	240 10 30 3	480 10 15 1.5	600 10 12 1.2	
Pilot duty ratings	Q300 (maximum m	Q300 (maximum make or break volt-amperes = 69)								
	Volts (V) Continuous (A) Making (A) Breaking (A)	12 2.5 2.5 2.5	24 2.5 2.5	48 2.5 1.4	60 2.5 1.1	125 2.5 0.55	250 2.5 0.27	300 2.5 0.23		



Publications and Reference: See Section 17 for a complete list of additional product-related publications

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Technical Data 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

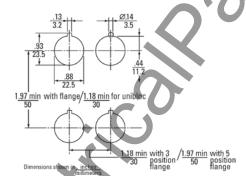
# Section 9

#### **Contact Data**

	AC15 Control	of AC Electron	nagnetic Loads						<b>\</b>
	Rated operation	onal voltage an	d current						
	Ue (V) le (A)	12 10	24 10	48 10	60 10	110 6	220 3	380 500 2 1.5	600 1.2
IEC utilization categories	DC13 Control	of DC Electron	nagnets						
	Rated operation	onal voltage an	d current						
	Ue (V) Ie (A)	12 2.5	24 2.5	48 1.4	60 1.0	110 0.55	220 0.27	300 0.2	
Contact characteristics	NC: slow make, double break (positive opening) NO: slow make, double break Self-cleaning (wiping action) contact Double-bridge contacts with four points of contact								
Contact resistance	≤25mOhm per	IEC 255.7 cate	gory 3 @ 24V, 1	. amp					
Contact fidelity	Minimum current: 5mA Minimum voltage: 12 Vac/dc, maximum resistance—2 ohms								
Logic reed contact data		ak num, 0.15A ma	ıximum, 8VA ma num, 4.5W max				7		

#### Mounting

Acceptable panel thickness	.040236 inches (1-6mm)	X
Operator locking ring torque	26 in./lb. (3 N-m)	
Force required to forcibly remove contact blocks and flange	Contact block or power supply from flange: 27 lbs. (118 N) 3- or 5-block flange from metal operator: 88 lbs. (392 N) 3- or 5-block flange from plastic operator: 66 lbs. (294 N)	



#### **Mounting Dimensions**

#### **Mechanical Life Ratings for Operators**

Operators	Number of Operations
Standard push buttons	3,000,000
Illuminated push buttons	1,000,000—3,000,000 <sup>1</sup>
Momentary mushroom-head push buttons	3,000,000
Maintained mushroom-head push buttons	500,000
Push-to-latch, turn-to-release mushroom-head push buttons	300,000
3-position mushroom-head push buttons	300,000
Nonilluminated selector switches	1,000,000
Illuminated selector switches	500,000
Joysticks	500,000
Toggle switches	500,000
Wobble sticks	1,000,000
Key-operated push buttons	500,000
Selector push buttons	1,000,000

 $<sup>\</sup>overline{1}$  Number of operations dependent on the operating duration of the lamp. If the lamp is left on for long periods of time, its heat can reduce mechanical life. All illuminated push buttons meet at least 1,000,000 operations.



**Technical Data** 600 VAC Max., 300 VDC Max.

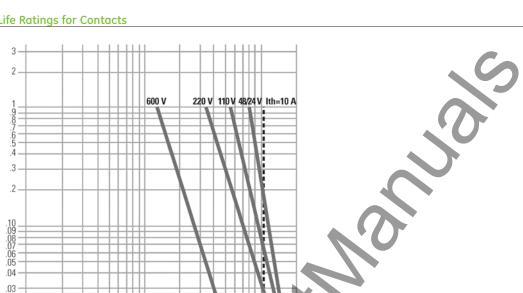
10 Amps Continuous AC, 2.5 Amps Continuous DC

#### **Electrical Life Ratings for Contacts**

Number Of Operations

(In Millions)

.02

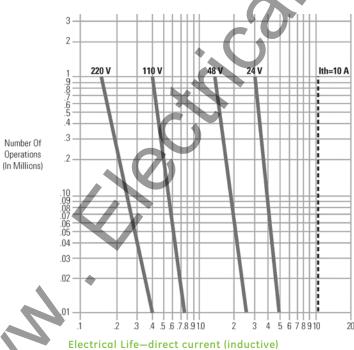


3 4 5 6 7 8 9 10

Electrical Life-50/60 Hz alternating current (inductive) per utilization category AC15

.4 .5 .6 .7.8.91.0

.3



per utilization category DC13

Publications and Reference: See Section 17 for a complete list of additional product-related publications

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Section 9

Technical Data 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

#### Materials

Component	Material	•
Cap/levers/knobs (nonilluminated)	Polyamide/acetal	
Cap/levers/knobs (illuminated)	Polycarbonate	
Metal housing	Copper-nickel-chrome plated zinc/aluminum a	lloy
Plastic housing	Polyamide/acetal	
Plunger	Polyester	
Springs	Stainless steel	
Body-to-panel gasket	Polyester elastomer	
Cap-to-body gasket	Vinyl nitrile rubber	
Lubricant	Lithium grease	
Cams for nonilluminated selector switches	Polyamide/acetal	
Cams for illuminated selector switches	Polyester	
Cam followers	Polyamide/acetal	
Contact block and power supply housings	Polyamide/acetal	
Contacts	Pure silver	
Conductors	Brass alloy	
Flanges	Polyamide/acetal	
Flange latches	Polyamide/acetal	
Printed circuit board adapter	Polyamide/acetal	
loystick protective housing	Vinyl nitrile rubber	
loystick plunger, lever & cam	Acetal resin	
loystick actuator	Polyamide/acetal	
Push-to-latch, turn-to-release actuator & plunger	Polyamide/acetal	
Vobble stick	Polycarbonate	
oggle switch lever	Polyamide/acetal	
Protective caps (clear)	Silicon rubber	
Protective caps (colored)	Vinyl nitrile rubber	
Push button protective guards	Polycarbonate	
Mushroom-head guards	Polyamide/acetal	
Padlockable cover	Polycarbonate and zinc-plated zinc/aluminum	alloy
Metal locking rings	Zinc-plated zinc/aluminum alloy	
Keys	Plated brass	
Nameplate holders	Polyamide/acetal	
Nameplate inserts	Laminated polyester	
Hole plug	Polyamide/acetal	

#### **Power Supply Selection**

Туре	Principle of Operation	Benefit		
Full voltage	Supplies input voltage directly to bulb.	Smallest and least expensive. Can be used with LEDs.		
Transformer	Utilizes a transformer to step the input voltage down to 6 volts.	Transformer has the effect of damping the inrush current and voltage spikes from the switching device seen when the light is turned on, actually protecting the bulb from these factors that shorten life.  Generates less heat than the resistor power supplies. Reduces unsafe supply voltages (up to 600 V) down to a safe level for lamp servicing. Can be used with LEDs. Able to withstand a short circuit of the lamp or lamp socket without damage.		
Normal resistor	Utilizes a resistor in series with the incandescent lamp to drop the lamp voltage to 50% of the input voltage.	Least expensive way to reduce unsafe supply voltages (up to 240 V) down to a safe level for lamp servicing.		
Diode resistor	Utilizes a resistor and a diode in series with the lamp to rectify and drop 240 Vac input voltage to operate a 130 V incandescent lamp.	Provides the same function as the normal resistor, but takes up only one position in the flange rather than two. Generates less heat than the normal resistor power supplies.		
Long-life resistor	Utilizes a resistor in series with the 130 V incandescent lamp to provide a lamp voltage 80% that of the input voltage.	Extends life of a $130\mathrm{V}$ incandescent bulb by $1300\%$ (from $2000\mathrm{to}$ $28,000\mathrm{hours}$ ).		
Flashing (full-voltage or transformer)	Utilizes a flashing circuit which can be enabled or disabled by externally switching (shorting) two connections.	Allows the lamp to be switched between OFF, ON, and FLASHING modes.		
Panel test (full-voltage or standard resistor)	Utilizes a diode to isolate the lamp test circuit from the supply circuit.	Allows use of indicating lights and "panel test" feature rather than individual push-to-test illuminated push buttons. Eliminates the need for the NO/NC contacts used on conventional push-to-test pilot lights.		



## Section

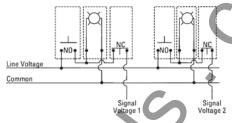
# Pilot and Signaling Devices Heavy-Duty 22.5 mm Watertight/Oiltight Push Buttons

#### C-2000

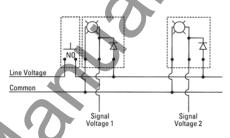
Technical Data 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

#### Maximum Panel Test Power Supplies Per Contact Block

Supply Voltage	AC	DC
6	15	15
12	30	30
24	60	60
48	120	66
60	150	66
130	300	72



Push-to-Test Indicating Lights



**Panel Test Power Supplies** 

#### Maximum Number of Contacts<sup>1</sup>

Operator Type	Power Supply Type	Standard 3-Block Flange	Optional 5-Block Flange
Push button Mushroom-head push button Wobble stick		4	8
Nonilluminated selector switch Key selector switch		4	8
Illuminated push button Illuminated mushroom-head push button	Full-voltage, diode & resistor, long-life resistor	4	8
Illuminated push button Illuminated mushroom-head push button	Standard resistor, panel test, standard transformer	2	6
Illuminated push button Illuminated mushroom-head push button	All flashing/continuous	0	4
Illuminated selector switch	Full voltage, diode & resistor, long-life resistor	4	4
Illuminated selector switch	Standard resistor, panel test, standard transformer	2	4
Illuminated selector switch	All flashing/continuous	0	4
Push-pull mushroom-head push button	-	2	_
Push twist-to-reset mushroom-head (standard) Push key-to-reset mushroom-head (standard)		2	_
Push twist-to-reset mushroom-head—direct snap action Push key-to-reset mushroom-head—direct snap action	_	4 <sup>2</sup>	_
Illuminated push-pull mushroom-head push button	Full voltage, diode & resistor, long-life resistor	2	_
Illuminated push-pull mushroom-head push button	Standard resistor, panel test, standard transformer	2	_
Illuminated push-pull mushroom-head push button	All flashing/continuous	0	_
Joystick Key-operated push button Selector push button	-	4	8
Toggle switch	_	4	4
Multi-function push button (for each button)	-	2 + 2	4 + 4
Illuminated multi-function push button (for each button)	Full-voltage, diode & resistor, long-life resistor	2 + 2	4 + 4
Illuminated multi-function push button (for each button)	Standard resistor, panel test, standard transformer	0 + 2	2 + 4
Illuminated multi-function push button (for each button)	All flashing/continuous	0+0	2 + 2
All operator types when used in plastic enclosures	_	2	_

<sup>&</sup>lt;sup>1</sup>In some cases, the maximum number of contacts shown is less than the available number of flange positions. This is because, in these instances, contact block force would affect operation of the device or reduce operator life below values cited elsewhere. For specific application assistance, contact your nearest GE Consumer & Industrial Representative.

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**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

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<sup>&</sup>lt;sup>2</sup>Early versions with white rear plunger suitable for a maximum of two single contacts.

**Technical Data** 

## 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

#### **Lamp Selection**

Incandescent, neon, and light-emitting diode (LED) lamps are available for use in indicating lights, illuminated push buttons and illuminated selector switches. Although incandescent lamps have traditionally been the most frequently used, it is wise to review the characteristics of the different types of lamps and select the one that is most appropriate for the application. Although the incandescent lamp offers the lowest initial cost, the LED is usually the most economical over the long term, due to its long life, resistance to shock and vibration, and lower power consumption.

#### Benefits of LEDs include:

- -Resistance to shock and vibration-Since LEDs are solid-state, they are completely impervious to the problems associated with shock and vibration that can significantly reduce the life of incandescent lamps by mechanically breaking the filament. The high inrush currents at startup associated with incandescents also act to significantly reduce the life of lamps used in frequent on-off applications.
- -Longer life-The LEDs used with C-2000 push buttons have a service life of 100,000 hours (11 years) compared to 20,000 hours (28 months) for the neon lamps, and 2,000 hours (3 months) for the standard incandescent lamps.
- **—Reduced power consumption**—The LEDs used for the C-2000 push buttons consume between 10% and 52% less power than the equivalent BA9S incandescent lamp. The table below shows the power consumption of each type:

Volts AC/DC	Incandescent	Watts	LED	Watts	Neon	Watts
6	BA9S606	0.6	080BA9S6L*	0.59	_	_
6	BA9S615	1.5	-	-	-	_
12	BA9S12	2.0	080BA9S12L*	0.78	_	_
24	BA9S24	2.0	080BA9S24L*	0.84	_	
48	BA9S48	2.0	080BA9S48L*	1.12	_	_
60	BA9S6012	1.2	-/-	-	-	_
110	_	_		_	BA9SN110	0.077
120	_	_	080BA9S120L*	1.4	_	_
130	BA9S130	2.0	-	_	_	_
220	_	_	-	_	BA9SN220	0.330

-Lower operating temperature-Because of the lower power consumption and greater efficiency of LEDs, they operate much cooler than incandescent lamps. Thus, in applications where heat in the enclosure could be a problem, LED lamps are a better choice.

Incandescent bulbs are recommended for light-duty applications and panels not subject to shock and vibration. Neon lamps offer a middle ground, at a cost and performance between the LED and the incandescent, but can have problems associated with flicker induced by noise and frequency. LED lamps offer the best overall performance for the long term.

#### Lamp Comparison

Bulb Type	Approx. Lifespan (hours)	Shock & Vibration Immunity	Operating Temperature	Power Consumption	Brightness
LED	100,000	High	Medium	Medium	Medium
Incandescent	2,000	Low	High	High	High
Neon	20,000	Medium	Low	Low	Low

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C-2000

Technical Data 600 VAC Max., 300 VDC Max. 10 Amps Continuous AC, 2.5 Amps Continuous DC

# Section 9

#### **Guideform Specifications**

IEC 22 mm push buttons shall be type GE C-2000 series. They shall be listed by Underwriters Laboratories (UL), certified by Canadian Standards Association (CSA) and conform to International Electrotechnical Commission (IEC) and Japanese Industrial Standard (JIS) standards. All push buttons, selector switches and pilot lights shall conform to the applicable requirements of NEMA standard ICS-2 for AC and DC control circuits. Enclosures shall be listed by UL and certified by CSA.

#### Standard features shall include:

- —Fully automated manufacturing with 100% on-line inspection.
- -Manufactured in ISO 9001 certified facility.
- —4 different operator styles: round metal body with polished chrome finish, round metal body with satin chrome finish, black round engineered plastic body, and black square engineered plastic body.
- —Contact blocks and power supplies completely interchangeable among all 4 styles of operators.
- —Locking rings that tighten from the rear with a special wrench or flat-blade screwdriver.
- —Contact block flanges that mount on operators with 4-point positive locking.
- —Universal mounting design that permits push buttons to be mounted with or without locating notch punched in panel. Orientation tab on operator notch that is removable with screwdriver.
- —Modular assembly incorporating snap-on contact blocks and power supplies, removable with flat-blade screw driver.
- -Devices mount on 30 mm x 50 mm (1.18 x 1.97 in.) center.
- —Devices mount on panel thickness of 1 to 6 mm (.039 to .236 in.).
- -Captive front-of-panel gasket for superior sealing.
- —Lamps removable from the front of the panel.

- -Metal operators constructed of die cast body.
- Polished and satin chrome operators feature triple chrome plating.
- -Permanent marking of contact blocks by laser etching.
- Double bridge wiping action contact block design for applications from 12-600 volts ac and 12-300 volts dc.
- —PLC interfacing with standard contact blocks.
- —Contact blocks rated for 10 million electrical operations at 12 volts, 5 milliamps.
- —Contact block cases shall be ultrasonically welded to provide superior protection in dust conditions. Contact blocks rated for 350,000 parentings at 13 yells. Emilliament in accurately
- for 250,000 operations at 12 volts, 5 milliamps in severely dusty conditions.
- Power supplies shall be available in full-voltage, resistor, and transformer forms.
- Resistor power supplies shall be available in standard, diode, and long-life forms.
- —Screw, quick-connect, and base-mount contact blocks.
- Printed circuit board connector for use with quick-connect contact blocks.
- -Global nomenclature.
- -Multi-lingual nameplates.
- -Global availability.



**Publications and Reference:** See Section 17 for a complete list of additional product-related publications

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