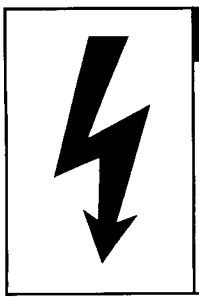
Instructions

January, 1998

Application

Field of use

- If assembled with the cover on, the signalling column complies with IP 54 Degree of Protection.
- In order to maintain shock-hazard protection (VDE 0106) on the part of the terminals, **proper connection of wires to these terminals is essential**.
- The signalling column is constructed and tested in accordance with DIN VDE 0660.



⚠ DANGER

Hazardous voltage.
Will cause death
or serious injury.

To avoid electrical shock or burn, turn off main and control voltages before performing installation or maintenance.

⚠ WARNING

Hazardous noise.
Can cause hearing loss.

At close range, wear ear protection.

NOTE: For most acoustic signalling applications, the buzzer is recommended. If the siren is selected, it must be located sufficiently far from personnel that the sound level at the location of people is in accordance with federal, state and local laws and regulations. In addition, in any service or test situation, with people close to the siren, appropriate hearing protection must be utilized.

Figure I:

- Connecting Terminal element ① with
- Top cover ② and
- Mount module seal and
- Gasket for surface mounting

Figure II:

Other components

- Light-emitting device ③
- Audible signal device ④
- Mounting bracket for right angle 1 or 2 sided mounting ⑤
- Tube for tube-mounting ⑥
- Base for tube-mounting ⑦
- Surface mounting base ⑧
- AS-i module* ⑨

*The AS-i module must be mounted after the terminal element, leaving room for a maximum of 4 more modules.

General principle of operation

The signalling column converts electrical signals into:

- Visible signals (steady light, LED steady glow, strobe light, blinking light, LED blinking light, LED circulating/rotating light and/or
- Audible signals (buzzer, siren)

Mounting

When mounting, ensure that there is a flat, level surface (sealing!) and adequate space for the complete signalling column. The accessories are assembled using M4, 10-32 or 10-24 screws. The hole spacing will be found in the drilling pattern diagram (Fig. IV).

Mounting Options:

- Surface Mounting (Figs. IIa, IVa)
- Bracket-mounting (Figs. IIb, IIc, IVa)
- Tube-mounting (Figs. IId, IIe, IIf, IVb)

Mounting the Signalling Column

Step 1:

Carefully pull off the top cover (Figs. Ia, Ib). Do NOT damage or lose the gasket between the cover and the terminal element.

Step 2:

Depending on the type of mounting desired, feed wires through the

- Base and proceed with Step 2.1.
- Bracket and proceed with Step 2.2.
- Tube and then proceed with Step 2.3.

Step 2.1:
Screw the terminal element together with the gasket onto the unit (Fig. IIa).

Step 2.2:
Screw 1 terminal element (Fig IIb) or 2 connecting devices (Fig. IIc) with gasket onto the bracket. Screw the bracket together with connecting device onto the unit.

Step 2.3:
Mount the terminal element onto the tube (with plastic base) with an allen wrench (Fig Ib). Tighten the terminal element to the tube.

Step 3:

Connect cable (Figs. IIIa, IIIb).

Note: It is important to note the rated voltages of the signalling devices! Excessively high voltage will result in damage!

Step 4:

Assemble the signalling column. You can mount up to 5 signalling devices on each connecting terminal element. If you use an audible signal element, it has an integral top closure and must be mounted in the top postition.

Note: Ensure that the supply voltages of base and signal devices are the same!

- Plug the signal device in so that in each case the white marks on the base and signal device are in alignment (Fig Va), then
- twist the device in the direction indicated by the arrow (Fig. Vb) until it engages (Fig. Vc). The arrow is embossed on the signal device.
- Attach a top cover on the outside signal device (Fig. VI) in order to obtain IP 54 Degree of Protection.

(For Engineering Reference Only - Rev. A)

Element Selection

Step 1: Select mounting method and terminal element*

Mounting Method	Terminal Element
Surface mounting	8WD4308-0AB
1 side Bracket mounting	8WD4308-0AB
2 side Bracket mounting	8WD4308-0AB
Tube mounting	8WD4308-0AA

*The terminal element includes the connecting terminals and a cover. One terminal element can be used with up to 5 signalling elements.

Step 2: Select necessary base components
Bracket Mounting: 1 sided right angle bracket
2 sided bracket

Tube mounting:	100mm tube*	8WD4308-0DA
	250mm tube	8WD4308-0EA
	400mm tube	8WD4308-0EB
	Plastic Base	8WD4308-0DB

*Includes integral plastic base.

Step 3: Select Signalling Elements

Signalling Element	Extra Components
Steady Light	light bulb **not** included, lens included
Flashing Light	light bulb **not** included, lens included
Strobe Light	light bulb included, lens included
Rotating LED Light	light bulbs included, lens included
LED Steady Light	light bulbs included, lens included
LED Flashing Light	light bulbs included, lens included
Buzzer	top cover included, lens included
Siren	top cover included, lens included

Step 4: Select the lens color(s). Available colors are red, yellow, green, blue, and clear.

Step 5: Select voltage required for the signalling column.

Step 6: If AS-i is required, the AS-i module requires a space in the bottom of the column; choose up to 4 additional signalling elements.

Selection Example:
A customer needs 2 steady lights (1 green and 1 red), 1 flashing light (yellow), 1 strobe (clear) and 1 buzzer. They must all operate on 115VAC. The customer would like the column mounted on a 250mm tube. What needs to be ordered?

Qty.	Description	Catalog Number
1	Plastic Base	8WD4308-0DB
1	Tube, 250mm	8WD4308-0EA
1	Terminal Element	8WD4308-0AA
1	Green Steady Light	8WD4300-1AC
1	Red Steady Light	8WD4300-1AB
1	Yellow Flashing Light	8WD4300-1BD
1	Clear Strobe Light	8WD4340-0CE
1	Buzzer	8WD4340-0FA
3	Bulb-115VAC	8WD4348-1XX

NOTE: Refer to the Signalling Columns Price Sheet for a complete list of available products and prices.

Maintenance

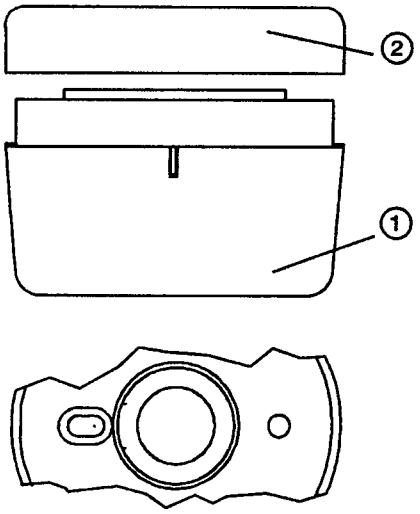
General Care
Clean the signalling column with a mild detergent which contains no abrasive material. Do NOT use solvents. Keep away from machining oil!

Maintenance
If the signalling column should be removed for changing individual signal devices or replacing defective bulbs (bayonet fitting), twist the signal device in the opposite direction to the arrow, and lift the device out.

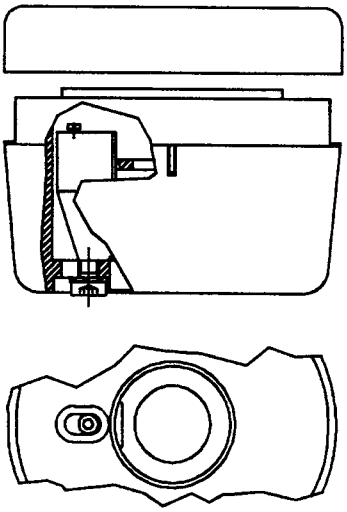
Technical data

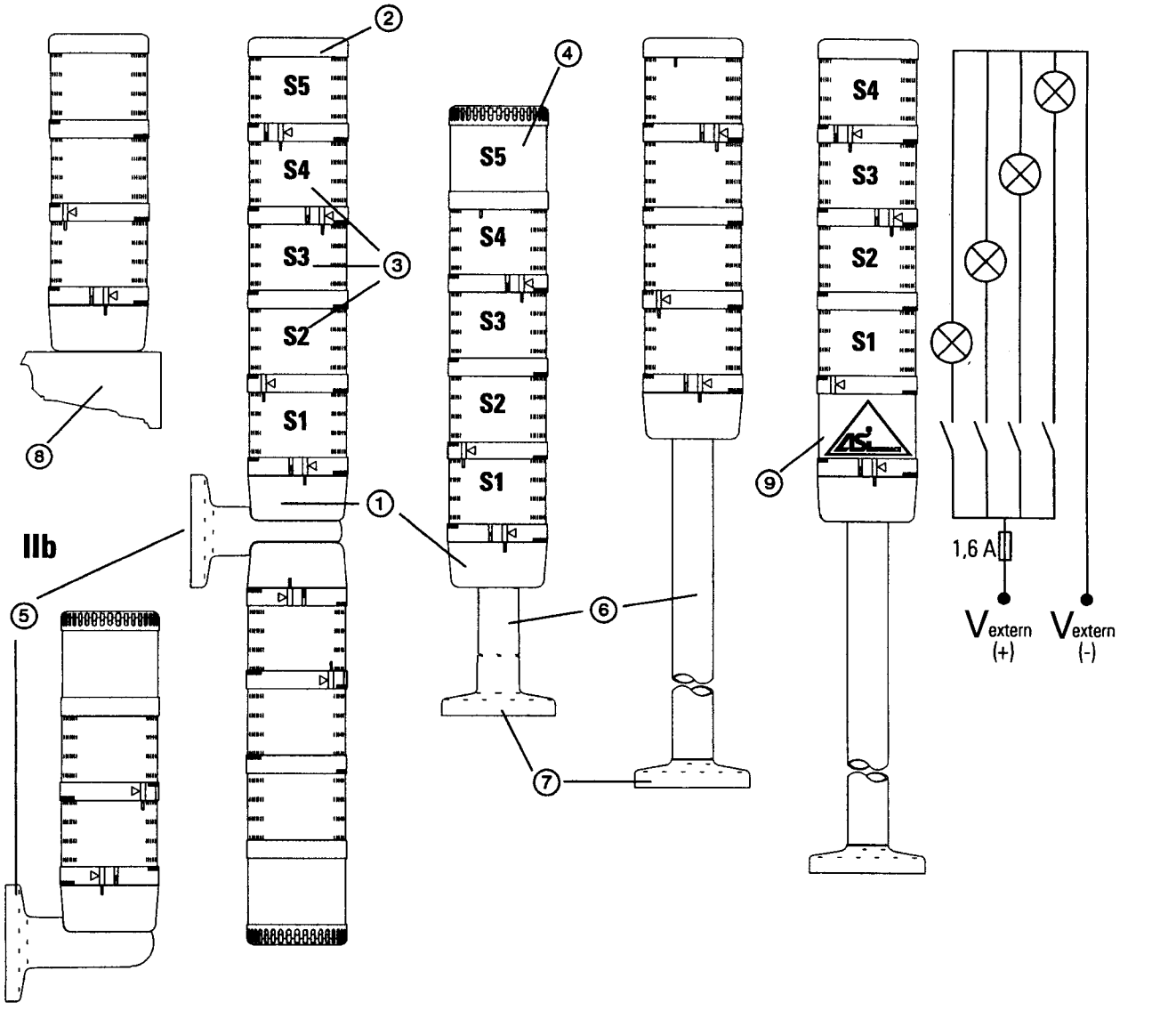
Housing	Black, impact-resistant thermoplastic (polyamide)
Light signal device	Thermo plastic (polycarbonate)
Fastening	• Horizontal (surface mounting, Fig. IIa) • Vertical with bracket (Figs. IIb, IIc) • Base with 25mm dia. tube (Figs. IId, IIe, IIf) • Gasket prefitted as a standard on each module
Temperature	-30°C to +60°C
Connection	M3 screw connection, $\leq 2.5mm^2$, ≥ 0.5 Nm

Ia

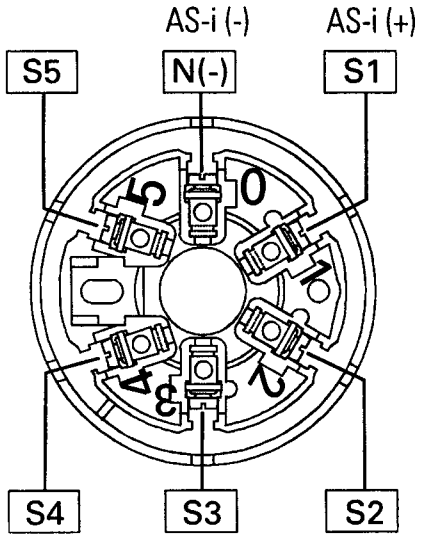

2
1

Ib

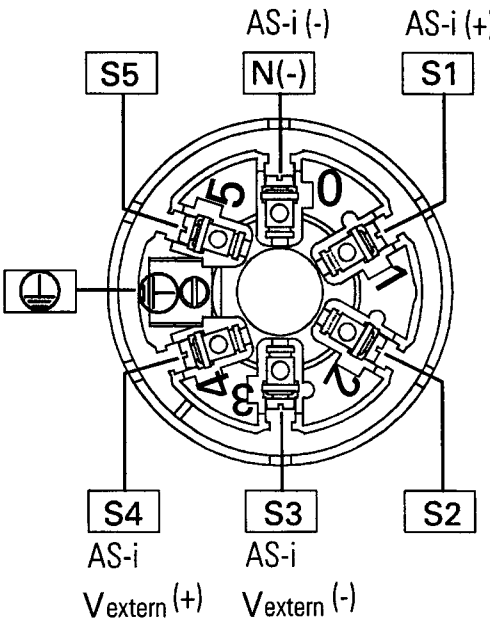



2
S5
S4
S3
S2
S1
3
8
1
4
S5
S4
S3
S2
S1
S4
S3
S2
S1
9
IIb
5
6
7
1,6 A
Vextern (+)
Vextern (-)

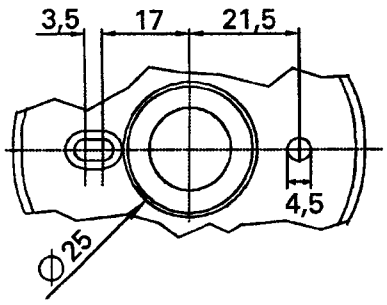
IIIa



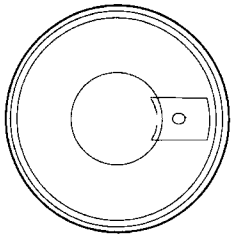
IIIb



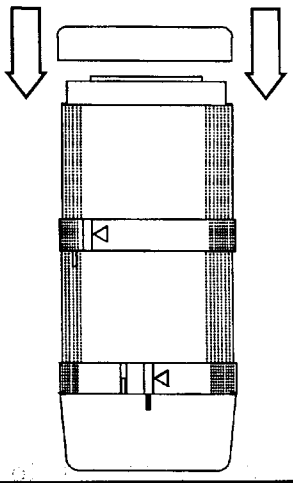
IVa



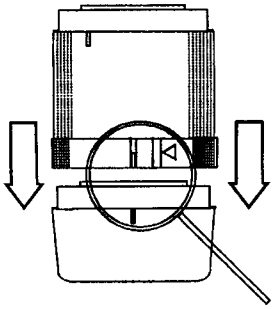
IVb



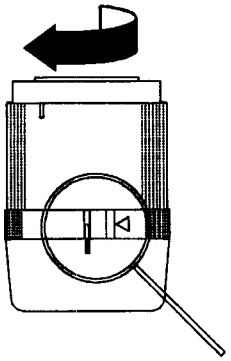
VI



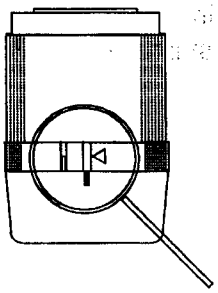
Va



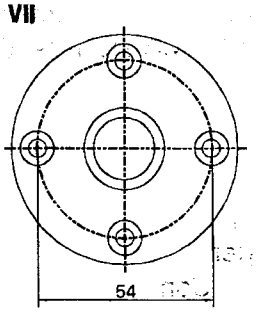
Vb



Vc



VII



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