

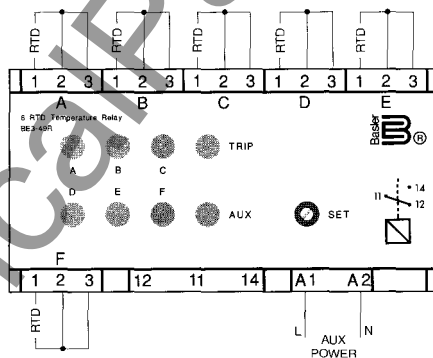
BE3-49R RTD TEMPERATURE RELAYS

6 input RTD temperature trip

APPLICATION:

The BE3-49R monitors 6 individual RTDs (resistance temperature detectors) and provides LED indication for which RTD has exceeded the set point temperature. Each of the six RTDs has an individual red LED. When the RTD reaches the trip point the RTD's LED illuminates. A relay is provided with user adjustable set point. If one or more of the six RTD inputs exceeds the set point, the relay energizes and the red LED marked ALARM is illuminated. The green LED marked AUX is provided to indicate the condition of the power supply. Typical applications include monitoring of temperature in transformer windings and large 3 phase motor windings. Typically a unit could monitor 6 inputs from 100 Ohm platinum RTDs over the range of 0 to 200°C and the set point could be set at 110°C. When this point is reached the relay could switch on an alarm. If, for example, RTD B, E, and F exceed this trip point, the red LEDs corresponding to B, E, and F would illuminate, as well as the Alarm relay LED.

CASE CONNECTIONS:



GENERAL SPECIFICATIONS:

Input

2 or 3 wire
Copper (Cu) 10 Ohm RTD: Range 0-200°C
Platinum (Pt) 100 Ohm RTD: Range 0-200°C
AC voltage: 120V \pm 25%, 45-65Hz, 2VA
240V \pm 25%, 45-65Hz, 2VA

Setpoints

Adjustment range: 50 to 100% of input temperature range

Repeatability:

Differential:

Better than 0.5% of full span

Fixed at 2% of range

Relay

Relay type
AC Rating:
DC Rating:
Operations:

S. P. D. T.
250V, 5A nonresistive, 1200VA
125V, 1A resistive, 120 watts
5 million

Weight and Case Size

Approx. 1.32 lbs. (0.6kg), 3.93 in. (100mm) case

Basler Electric

ROUTE 143, BOX 269 HIGHLAND, ILLINOIS 62249, U.S.A. PHONE 618-654-2341 FAX 618-654-2351

ULI-1
3-99

PERFORMANCE SPECIFICATIONS:**Environmental**

Operating temperature: 0°C to +60°C (32°F to 140°F)
Functional temperature: -25°C to +70°C (-13°F to 158°F)
Storage temperature: -40°C to +70°C (-40°F to 158°F)
Temperature coefficient: 0.03% per °C (200ppm/°C)
Relative humidity: 95% noncondensing

Agency Approvals

UL recognized, CSA certified, C.E. compliant

Insulation

Test voltage: 4kV RMS 50Hz 1min between Input, Case, and Auxiliary
Impulse test: EMC 5kV transient, complies with IEC 801, EN 55020
HF interference test: EHF 2.5kV 1MHz, complies with IEC 255-4
Protection class: II, complies with IEC 348

Applied Standards

General: IEC 144, BS 5420,
VDE/VDI 0435, IEC 947,
EN 60947

Safety:

BS EN 61010, DIN 57411,

VDE 0411, ANSI C37

IEC 801, EN 55020,
ANSI C37-90a

Surge withstand:**RFI:**

RFI degree N, complies with
VDE 0875

Relay Output**Relay type:**

S.P.D.T.

AC Rating:

250V 5A nonresistive, 1200VA

DC Rating:

125V 1A resistive, 120 watts

Mechanical Life:

Five million operations

Enclosure**Fixing:**

Snap onto DIN rail 1.38in. x
.29in. (35mmx7.5mm),
complies with DIN-EN 50022,
BS 5584

Mounting:

Any position

Enclosure code:

Case IP 50, terminals IP 30

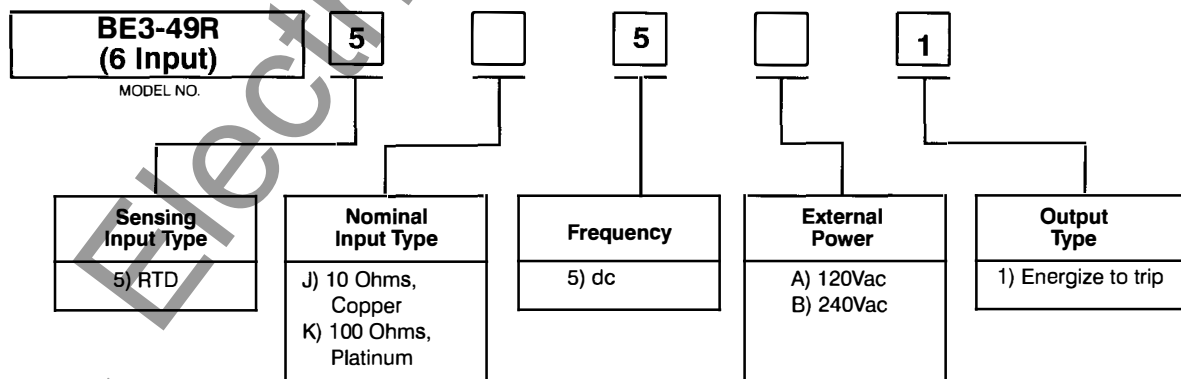
Material:

Complies with UL 94 VO

HOW TO ORDER:

Designate the Model Number followed by the complete Style Number.

Complete the Style Number by selecting one feature from each column of the Style Identification Chart and entering its designation, letter or number, in the appropriate square. Note: The description of a complete relay must include both Model Number and Style Number.

STYLE IDENTIFICATION CHART:

B Basler Electric

ROUTE 143, BOX 269, HIGHLAND, ILLINOIS U.S.A. 62249
PHONE 618-654-2341 FAX 618-654-2351

P.A.E. Les Pins, 67319 Wasselonne Cedex FRANCE
PHONE (33-3-88) 87-1010 FAX (33-3-88) 87-0808

<http://www.basler.com>, info@basler.com

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