

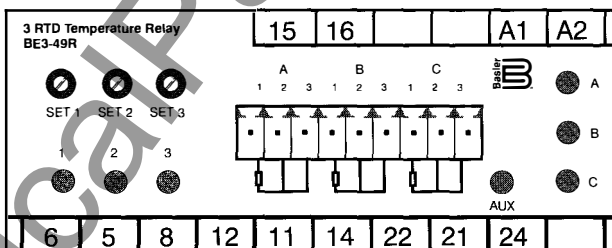
BE3-49R RTD TEMPERATURE RELAYS

3 input RTD temperature trip

APPLICATION:

The BE3-49R monitors 3 individual RTDs (resistance temperature detectors) and provides LED indication for which RTD is at the highest temperature, as well as a mA output signal proportional to the temperature of the highest RTD. The mA output signal may be fed to an analog or digital meter scaled in temperature or to a computer system. The three relays are provided with user adjustable set points; as the temperature rises each relay will energize when the set point is reached. Three LEDs are provided to show the state of each relay. When the relay energizes, the red LED is illuminated. A green LED 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 3 inputs from a 100 Ohm Platinum RTD over the range of 0-200°C. The first set point could be set at 110°C, and when this point is reached the relay could switch on a cooling fan. The second relay could be adjusted for 130°C, and when this temperature is reached the relay could set off an alarm. The third relay could be adjusted to 180°C, and when this temperature is reached, the relay could shut down the entire system.

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

Output

Rated value: 0-1mA

Load resistance: Maximum 5k Ohms

Setpoints

Adjustment range: 50-100% of input temperature range for all 3 setpoints

Repeatability:

Differential:

Better than 0.5% of full span

Fixed at 2% of range

Relays (3 relays)

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

ULH-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:**Surge withstand:****RFI:**

BS EN 61010, DIN 57411,
 VDE 0411, ANSI C37
 IEC 801, EN 55020,
 ANSI C37-90a
 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:

BE3-49R (3 Input) MODEL NO.	5		5		1
Sensing Input Type	Nominal Input Type	Frequency	External Power	Output Type	
5) RTD	H) 10 Ohms, Copper I) 100 Ohms, Platinum	5) dc	A) 120Vac B) 240Vac	1) Energize to trip	

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