

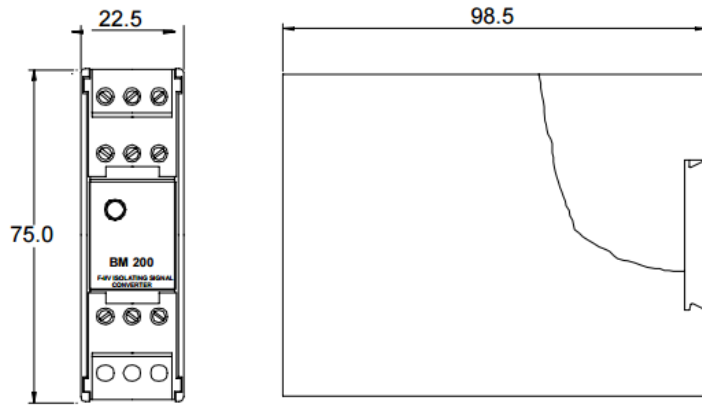
# Datasheet

## Single level trip amplifier, BD100/1 230V

RS Stock number 466-2270



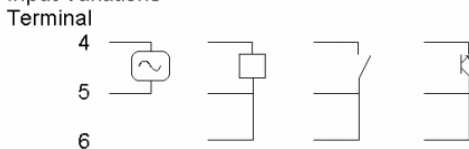
### MECHANICAL DETAILS



### TERMINATION DETAILS

- |  |                                |
|--|--------------------------------|
| Terminal                                     | Terminal                       |
| 1 Power Supply -ve                           | 7 Active o/p -ve / Passive +ve |
| 2 Power Supply +ve                           | 8 Active o/p +ve               |
| 3 Power Supply Screen                        | 9 Passive o/p -ve              |
| 4 0 Volt reference                           | 10 Unused                      |
| 5 ~ AC input signal                          | 11 Unused                      |
| 6 1K ohm internal resistor from 8V reference | 12 Unused                      |

### Input Variations





## Specification

ENGLISH

### Inputs

#### DC Current

0-1 into 100ohms

0-10 into 10 ohms

4-20mA into 10 ohms

Other current inputs as required

Minimum current 10uA

Maximum current 100mA

#### DC Voltage

Between:- 250 and + 250 volts DC

Minimum voltage span 5mV

Maximum voltage span 500V

#### Input Impedence

1M ohm or greater

#### Resistance (2 wire)

Between 0 and 20k ohms

Minimum span 5 ohms

Maximum span 20k ohms

#### Potentiometers (3 wire)

Between 0-10k ohms

Minimum span 10 ohms

Maximum span 10k ohms

#### Resistance Thermometers

2 or 3 wires

100 or 130 ohms at 0 deg C

Minimum temperature span 10deg C

Maximum temperature span 600 deg C

Input is linearised

### Thermocouples

Type B, E, J, K, N, R, S & T

Temperature covered:

Type	Range	MinTemp Change
B	600-1800°C	400°C
E	-260 to 1000°C	65°C
J	-200 to 1200°C	80°C
K	-260 to 1370°C	100°C
N	0- 1300°C	150°C
R	50 to 1760°C	400°C
S	80 to 1760 °C	400°C
T	-260 to 400°C	100°C

Automatic cold junction compensation

Open circuit thermocouple monitoring upscale or downscale drive.

### Output

#### Contact Rating

Max current 2A

Max voltage 220V DC / 250V ac

Max load 60W 62.5VA

#### Switching Differential

0.5% of span approx

#### Switching Mode

Relay energises or de-energises on rising or falling signal as required

#### Set Point

270°C screw driver operated potentiometer through front panel

#### Relay State Indication

Bi- colour red/ green LED

Green = stable state

Red = alarm state

**Supply**

Power supply voltage  
 115 volt AC  $\pm$  15% 50/60 Hz or  
 230 Volt AC  $\pm$  15% 50/60 Hz

**Power Required**

3VA Maximum

**General**

**Temperature Coefficient**

$\pm$  0.1% of span / 10°C ( for inputs > 100V)  
 $\pm$  cold junction error, for thermocouple inputs

**Operating/ Storage / Temperature Range**

0 to +45°C / -20 to + 60°C

**Operating / storage / humidity**

0 to 95% RH non – condensing

**Weight**

135 gms

**Inputs**

