## **INPUT: Pt100**



- Solder jumpers for
  - Span
  - Zero
  - Upscale / Downscale
  - 4~20 mA / 20~4 mA
- Multirange: 8 SPAN ranges, 25 to 600 C° / 45 to 1080 F°
  4 ZERO ranges, -100 to +70 °C / -148 to +158 °F
- Accurate: 0.1% temperature linear 4~20 mA output
- 6.5 V loop drop allows 800  $\Omega$  load @ 24 V DC
- Upscale / downscale selectable sensor break detection
- 4~20 mA or 20~4 mA selection
- ON LED shows state
- Pt50, Pt200, Pt500, Pt1000 on request

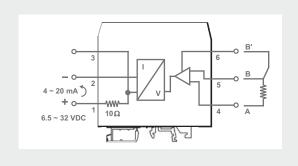
## **GENERAL**

TRX10 is a DIN rail mounted high performance, "all-in-one" 2-wire temperature transmitter. Its high reliability industrial design offers some rare functions, e.g. 4~20 mA or 20~4 mA selection.

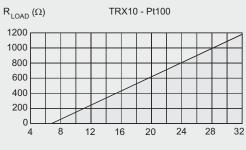
TRX10 with Pt100 input is adjustable for 8 overlapping ranges in °C or °F and gives a temperature linear output. All selections are made by solder jumpers. 'Fine' ZERO/SPAN potentiometers are provided for calibration.

The product design gives easy access to terminals & adjustments.

# **CONNECTION DIAGRAM**

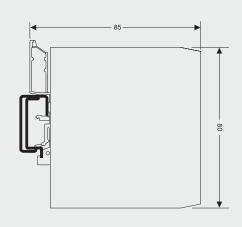


## **OUTPUT LOAD**



R<sub>LOAD</sub> = (U-6.5)/0.022 Supply voltage U (VDC)

## **ENCLOSURE**





# **INPUT: Pt100**

### SPECIFICATIONS All specifications at ambient of 25 °C, unless specified otherwise

#### **INPUT**

Input type Sensor current Other input types

#### **MONITORING**

Sensor break detection, selectable ON LED

#### **ADJUSTMENTS**

#### Zero selection

Zero, fine adjustment Span selection Span, fine adjustment

#### **OUTPUT**

Current, selectable Linearity Current limit Permissible load

#### **ACCURACY**

Linearity & calibration

Temperature effect on accuracy

Supply voltage / load effect

### **POWER SUPPLY**

Supply voltage

#### **ENCLOSURE**

### Material

Dimensions Mounting

Connection, single/stranded wires

Weight Protection

## **TEMPERATURE, HUMIDITY**

Ambient, storage Ambient, operation Relative humidity Pt100 ( $\alpha$  = 0.00385), 3-wire connection

0.3 mA

Pt50, Pt200, Pt500, Pt1000 on request

Upscale ~ 25 mA, Downscale ~ 3 mA

Provided

-100 to +70 °C ( -148 to +158 °F ) in 4 overlapping ranges (see table below)

± 10%

25 to 600 C° (45 to 1080 F°), 8 overlapping ranges (see table below)

± 10%

4~20 mA, 20~4 mA Temperature linear

~25 mA

800 Ω @ 24 VDC, 22 mA

 $\pm$  0.1% of span

 $\pm\,0.5\%$  of span / 25 C°

 $\pm\,0.6\%$  of span / 50  $F^{\circ}$ 

 $\pm$  0.002% of span / V

6.5 to 32 VDC

ABS plastic

80(H) x 25(W) x 85(D) mm

Snap on for 35 mm DIN rail to DIN 46277

 $\leq$  2.5 mm<sup>2</sup>, AWG 14

70 grams IP 20

-20 to +85 °C (-5 to +185 °F)

-20 to +55 °C (-5 to +160 °F)

0 ~ 95%

## ZERO, SPAN

Zero selection		Span selection	
°C	°F	C°	F°
-102 to -65	-150 to -85	25	45
-68 to -21	-90 to -5	50	90
-28 to +29	-18 to +84	100	180
-6 to +73	+21 to +163	200	360
		300	540
		400	720
		500	900
		600	1080

The above zero & span selections are done using solder jumpers. The calibration for a given range is then done using the '4' & '20' mA potentiometers on the instrument front.

www.beeinstruments.com

Fax: +91 22 2387 6729 email: sales@beeinstruments.com website: www.beeinstruments.com