

ASC332 Series DC Current Trip Transducer

- Low DC Current Monitoring
- 3 year warranty as standard
- CE compliant
- Connect directly to PLC
- Single or Bidirectional sensing options

APPLICATION

- Small Motor / Heating element current monitoring.
- DC Current signal conditioning.

TECHNICAL SPECIFICATION

INPUT

Current can be specified in the range of:
0 - $\pm 100\text{mA}$, 0 - $\pm 200\text{mA}$, 0 - $\pm 400\text{mA}$,
0 - $\pm 600\text{mA}$, 0 - $\pm 1000\text{mA}$.

'Other' &/or Unidirectional ranges available on request

OUTPUT

4–20mA Unidirectional or 12 to $\pm 8\text{mA}$ Bidirectional

Output Load: 500 ohms max

Loop / Supply voltage 24Vdc $\pm 5\%$

Linearity: $< \pm 1\%$

Accuracy: $< \pm 1\%$

Consumption: 40mA + I out

Freq Bandwidth: 20Hz (50mS)

TRIP RELAY

Default trip on Low, High available on request.

Normally de-energised, 220Vdc/1A max.

INDICATOR

1 x Bi-Colour LED

Green = Healthy

Red = Alarm / Trip

CONTROLS

15 turn potentiometers for zero/span + trip point.

Set point: +/- 1 to 100%

Protection

Isolation: 3000V RMS. Input / Output / Case

Input over range: up to 300% continuous

Enclosure: ABS (UL 94V-0) / Encapsulation

ENVIRONMENTAL CONDITIONS

Storage temperature: -25 to $+85$ °C

Operating Ambient: -10 to $+70$ °C

Relative Humidity: 20 to 95% RH

Temp Coefficient: $< 0.02\%/^{\circ}\text{C}$

MOUNTING

Mounting: Surface

Weight $< 70\text{g}$

Installation: CAT II



WIRING

5 way plug-in terminal Connector

Up to 500V working voltage, Current rating 3A

1= + Supply

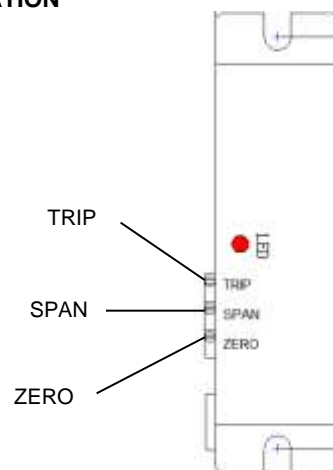
2= - / 0V Com

3= + Output

4= NO - Relay

5= COM - Relay

CALIBRATION



ORDERING CODE

(BI = Bi-directional requirement)

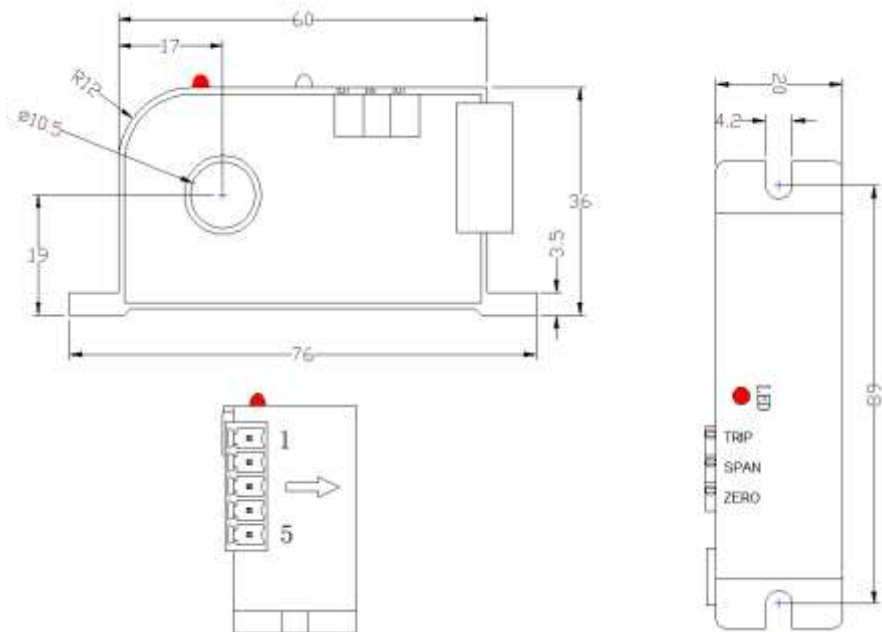
Model / Input mA range / (BI)

E.g. ASC332-600-BI for $\pm 600\text{mA}$ monitoring

ASC332-1000 for 0-1Amp monitoring

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DIMENSIONS (mm)



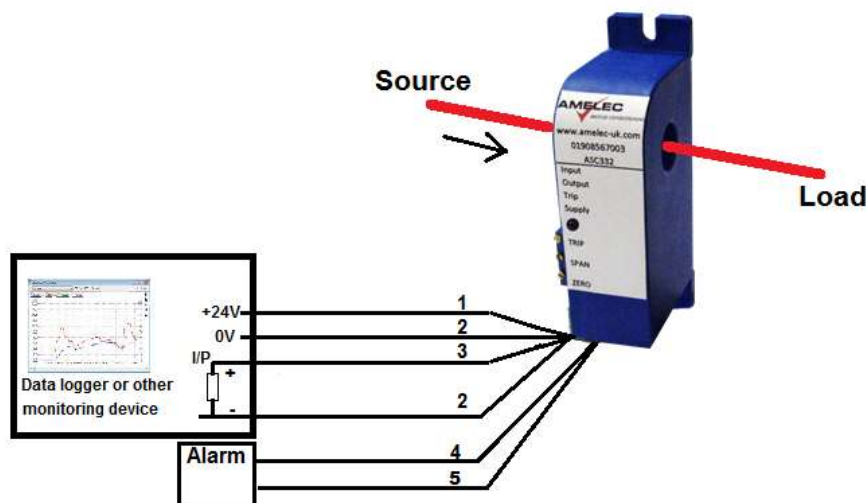
INSTALLATION

To avoid damage to the case, input cable should be formed to shape and supported. The transducer can simply hang on a wire, although the Surface mounting plate offers a more secure fixing.

WIRING

5 way Plug-in Terminal Connector

- 1= + Supply
- 2= - / 0V Com
- 3= + Output
- 4= NO - Relay
- 5= COM - Relay



SAFETY NOTE:

Although the voltage(s) directly connected to this instrument and its internal voltages are low, the cable running through the core may be carrying a dangerous high voltage. For this reason, this product should only be installed by a competent person, taking extra care if ever handling the unit whilst it has a live cable through the split core.