

ASC020 DC Current Transducer

- Split core CT for easy non intrusive Installation
- Loop powered, reducing wiring
- 2 year warranty as standard
- CE compliant
- Connect directly to PLC

APPLICATION

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

TECHNICAL SPECIFICATION

INPUT

Current can be specified in the range of:

0 - ± 20 Adc Bi-directional

Or

0 - ± 20 Adc Non-directional

OUTPUT

I/P = -20A 0A +20A

O/P = 4mA 12mA 20mA

Or

I/P = 0A 10A 20A

O/P = 4mA 12mA 20mA

Output Load: 50 to 250R ohms

SUPPLY

24Vdc $\pm 20\%$

PERFORMANCE

Linearity: $< \pm 0.2\%$

Accuracy: $< \pm 1\%$

Consumption: 30mA + I out

Freq Bandwidth: DC to 1kHz

CONTROLS

1 turn potentiometers for output calibration.

Zero: $\pm 25\%$

Span: $\pm 25\%$

PROTECTION

Isolation 3000V RMS. Input / Output / Case

Input over range up to 300% continuous.

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

ENVIRONMENTAL CONDITION

Storage temperature: -40 to +70 °C

Operating Ambient: -25 to +55 °C

Relative Humidity: 20 to 95% RH (Non-Condensing)

Temp Coefficient: $< 0.05\%/^{\circ}\text{C}$

MOUNTING

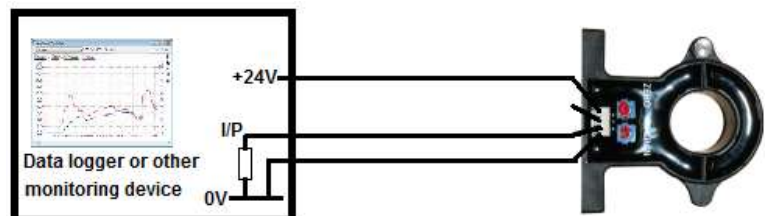
Mounting: Clip on / Surface

Weight $< 70\text{g}$

Installation: CAT II

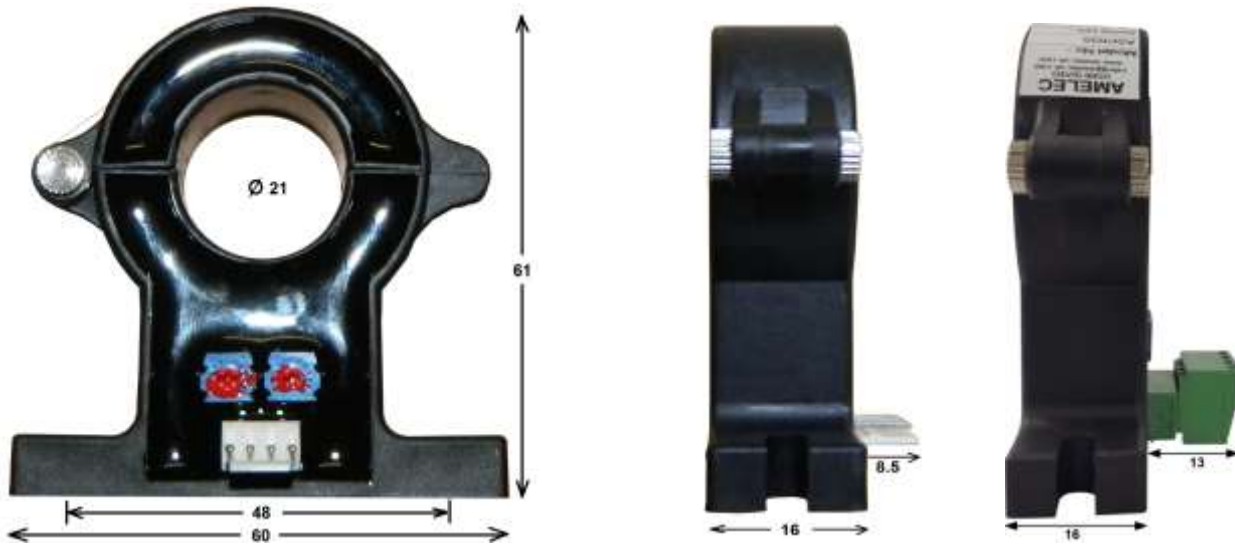


WIRING



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DIMENSION (mm)



INSTALLATION

To avoid damage to the case, input cable should be formed to shape and supported.

1. Remove screw to release split-core



2. Place the cable



3. Screw the split-core back into closed position



4. Finish



SAFETY NOTE:

Although the voltage(s) directly connected to this instrument and its internal voltages are low, the cable running through the split core may carry dangerous high voltage. For this reason, this product should be installed by a competent person. If the unit fails to operate correctly then first check if the wiring is correct. Under no circumstance is the unit to be taken apart to gain access to internal circuitry for any reason whilst it has live cable through the split core.