

ASC020 – ASC500 Series DC Current Transducers

- Split core CT for easy non-intrusive installation
- Loop powered, reducing wiring
- SIL 2 rated (IEC61508) as 1oo1 architecture (HFT:0)
- 3 year warranty as standard
- CE compliant
- Connect directly to PLC / Data Logger

APPLICATION

- DC current monitoring (20A - 500A ranges)
- DC current signal conditioning (to 4-20mA)

TECHNICAL SPECIFICATION

INPUT

Current (DC) can be specified in the range of:
 0 - 20A, 0 - 25A, 0-50A, 0-100A, 0-200A, 0-300A,
 0-400A, 0-500A. Intermediate ranges also available
 on request. (21mm through hole diameter as standard)

Multi-Turns required at installation for ranges <20A.
 E.g. 0-10A monitoring = 2 x through turns.

Bi-directional Input current options also available.

OUTPUT

4 – 20mA DC Sinking current. 20mA max
 Output Load: 450R ohms max @ 24Vdc supply.
 Loop supply voltage: 24Vdc \pm 5%
 Linearity: < \pm 1%
 Accuracy: < \pm 0.5%
 Consumption: 35mA + I out
 Freq Bandwidth: DC to 20kHz

CONTROLS

Single turn potentiometers for output calibration,
 Zero / Span: +/-20%

PROTECTION

Isolation 3000V RMS. Input / Output / Case
 Input over range up to 200% continuous.
 Enclosure: ABS (UL 94V-0) / Encapsulation

ENVIRONMENTAL CONDITIONS

Storage temperature: - 50 to +100 °C
 Operating Ambient: -25 to +85 °C Temp Coefficient < 0.03%/°C
 (Temp Coefficient at -40°C / -55°C: < 0.1%/°C)
 Relative Humidity: 5 to 95% RH (Non-condensing)
 For 100% RH applications the zero/span adjustment pots
 need sealing & use only the side integrated cable option
 IP Rating: IP60 as standard

MOUNTING

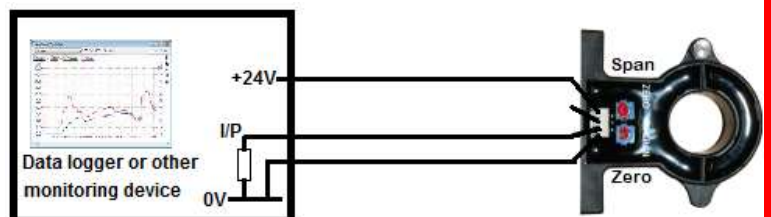
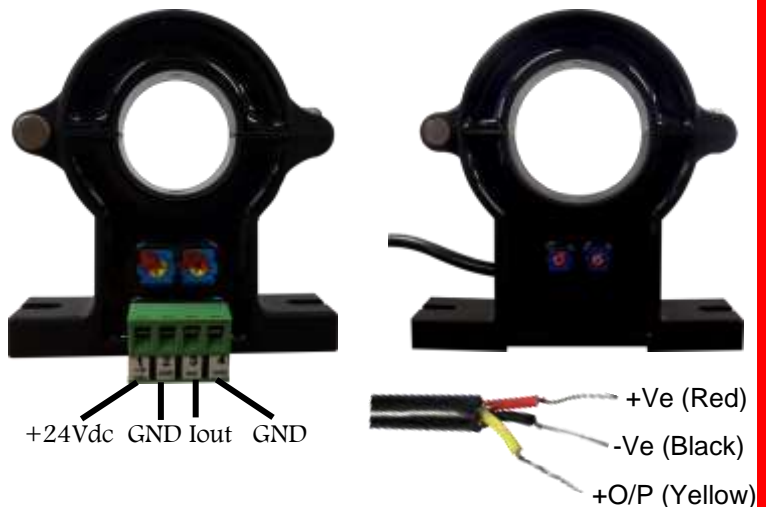
Mounting: Surface, or Clip on. (Weight < 70g)
 Output/Supply wiring: Plug-in screw terminals as std
 (Mowlex connector or Side Integrated cable optional)
 Installation: CAT II

Additional options:

IP65 sealing on request (with side integrated cable).
 Larger (40.5mm) through hole diameter available on request.

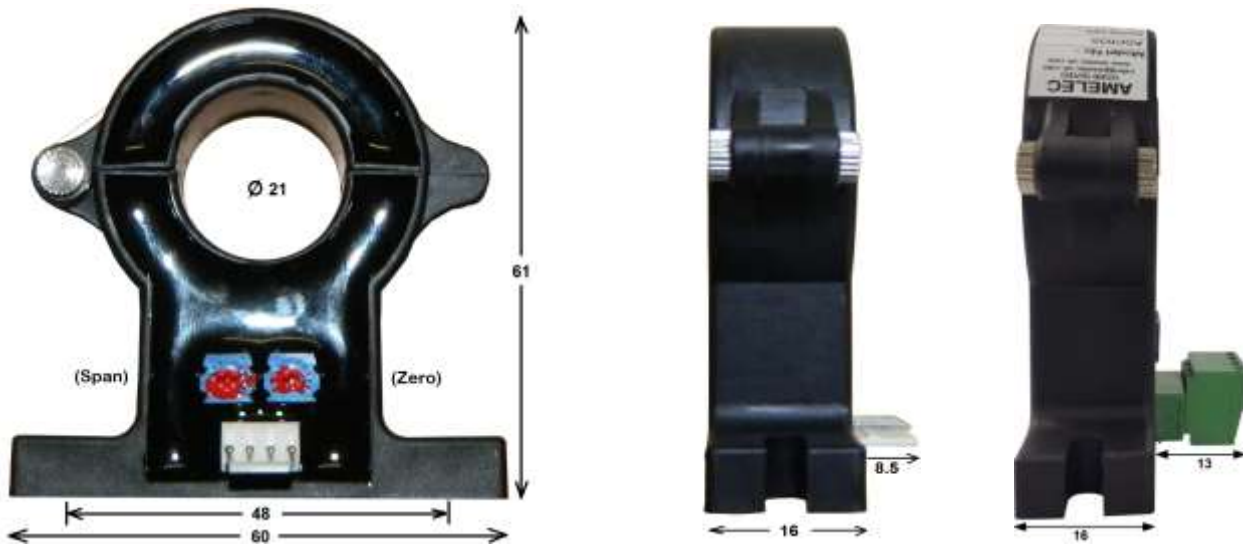


WIRING



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DIMENSIONS (mm)



INSTALLATION

To avoid damage to the case, the 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 be carrying 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 that the wiring is correct. Under no circumstances is the unit to be taken apart to gain access to internal circuitry for any reason whilst it has a live cable through the core.