

ADM213X High DC Current Transducer / Isolator

- Suitable for SIL 1 & SIL 2 rated (EN 61508-2) safety instrumented system (SIS) loop applications, as 1oo1 architecture (HFT:0)
- Non-Smart / Non-uProcessor based, Type A instrument
- Supply voltage options:
 - 115Vac ±20%
 - 240Vac ±20%
 - 24Vdc ±10%
 - 48Vdc ±10%
 - 110Vdc ±10%
- RFI Protection to EN 61000-4-3:2006/A2:2010 available ('K' option)
- AMELEC Standard 10 year warranty

Technical Specifications

Input

Any DC Current range up to 10A may be specified, either unidirectional or bidirectional current monitoring.
 Typical Input: 0-1A, 0-2A, 0-3A, 0-5A, 0-10A, -5 to +5A or -10 to +10A dc.

Output

Any standard process current or voltage in the range of;
 Current source up to 22mA max, with drive voltage 24Vdc (Current Sink option available, 30Vdc max external drive)
 Voltage source up to 20V max output
 Typical Output: 4-20mA (max load 1200Ω) or 0-10Vdc (min load 500Ω)

Performance

Accuracy/Linearity: <±0.1% Span
 Response Time: typically <200mS (10-90% input step change)
 Supply consumption: <3VA
 Input O/C response: Up or Downscale drive may be specified

Protection

Isolation: 1000V RMS* Input/Output/Supply/Earth.
 *(500Vdc when 'K' option RFI protection is specified)
 Internal Fuse
 Input over range: up to typically 300%

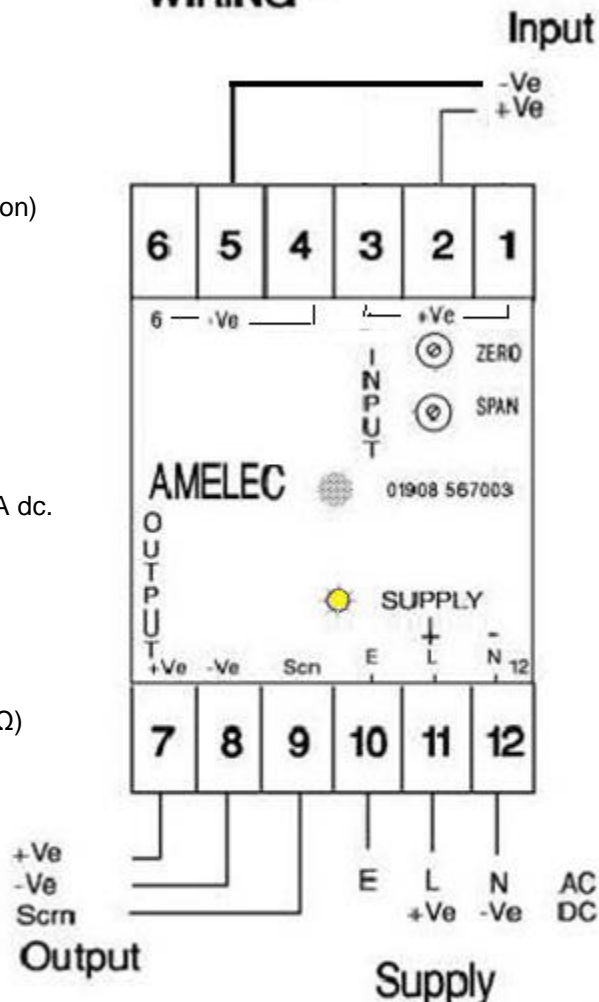
Environmental Conditions

Storage Temperature: -40 to +70°C
 Operating Ambient: -15 to +55°C
 Relative Humidity: 5 – 95% RH (Non-condensing)
 EMC: 2014/30/EU , EN 61326-1:2013 (controlled EM)
 ('K' option: EMC/EMI/RFI protection to highest Generic Industrial levels)

Options

DI = up to 4½ digit Display: scaled in % or Engineering units to suit
K = RF Immunity: 20MHz-3GHz/5.25GHz ≤10V/m, 80MHz-1GHz/5.6GHz ≤30V/m, 889MHz/1.75GHz ≤40V/m.
X = Bi-polar -10V to +10Vdc Output option available

WIRING



Mounting: Either Din Rail (TS35) **or** Surface (by corner fixing holes) as standard

Dimensions: 50w x 75h x 110d mm

(DI option=145d mm, K option= 182d mm)

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