

ADM272 Strain Gauge Trip Transmitter / Isolator

- Suitable for SIL 1 & SIL 2 rated (EN 61508-2) safety instrumented system (SIS) loop applications, as 1oo1 architecture (HFT:0)
- Supply voltage options:
 - 115Vac ±20%
 - 240Vac ±20%
 - 24Vdc ±10%
 - 48Vdc ±10%
- Non-Smart / Non-uProcessor based,,Type A instrument
- Digital Display available ('DI' option)
- RFI Protection to EN 61000-4-3:2006/A2:2010 available ('K' option)
- 10Vdc @30mA Excitation as std (5V & 24V Excitation options available)
- AMELEC Standard 10 year warranty

Technical Specifications

Function

Provides a DC output signal proportional to a bridge type strain gauge utilised in load cells and pressure transducers.

Input

Any mV signal range up to 400mV (with a 4mV minimum Span)
Excitation: 10Vdc at up to 30mA as standard.

Analogue Output

Any standard process current or voltage signal. Current source up to 20mA, with Drive voltage 11Vdc. Current sink up to 20mA, with External Drive ≤30Vdc. Voltage source up to 10V, max current 20mA. Typically: 4-20mA (max load 550Ω) or 0-10Vdc (min load 500Ω).

Trip Output

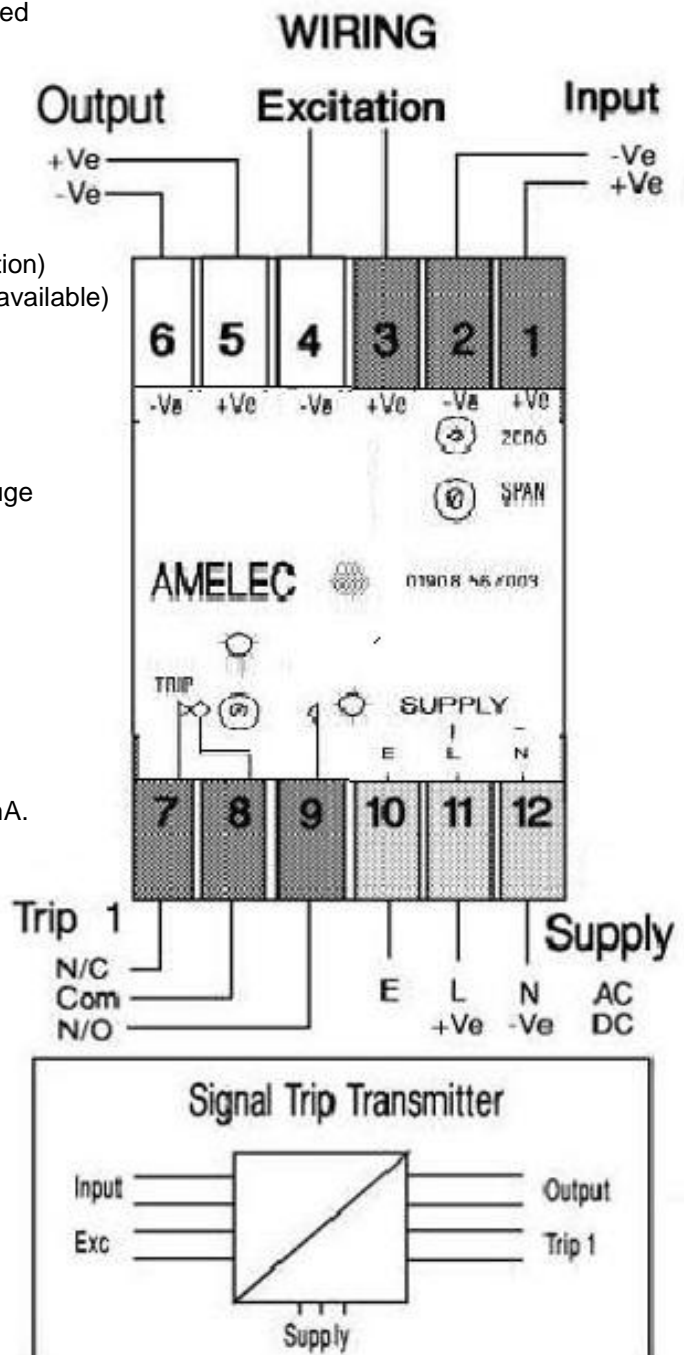
S.P.C.O contacts, rated 250VAC, 2A, 100VA (resistive)
Latching relay option 'L' available, with Local Reset.
Red LED indication of Relay status, ON Energised/healthy,
Extinguished in Trip/De-energised state as standard.
(Red/Green BI-colour LED optional)

Performance

Isolation: 1000V RMS* Input/Exc/Output/Contacts/Supply/Earth
*(500Vdc when RFI protection option 'K' is specified)
Accuracy/Linearity: ±0.1%
Trip settability: ±1%
Trip repeatability: ±0.1%
Deadband: 1% span as std (adjustable 1-20% span optional 'V')
Response time: <100mS as std (0-100% input step change)
Supply consumption: <4VA
Input O/C response: Up or Downscale drive may be specified
Fail Safe Relays: De-energise on Trip & Loss of Power as std

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 the highest Generic Industrial Standards)



Mounting / Demensions

Either Din Rail (TS35) or Surface by corner fixing holes in standard 50w x 75h x 110d mm enclosure.

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

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