

ADM233 Process Signal Trip Transmitter / Isolator

- Suitable for SIL 1, SIL 2 & SIL 3 rated (EN 61508-2) safety instrumented system (SIS) loop applications
- Supply voltage options: 115Vac $\pm 20\%$
240Vac $\pm 20\%$
24Vdc $\pm 10\%$
48Vdc $\pm 10\%$
- RFI Protection to EN 61000-4-3:2006/A2:2010 available ('K' option)
- 24Vdc@22mA two-wire input Loop Excitation available ('M' option)
- Digital Display available ('DI' option LCD)
- Non-Smart/Non-uProcessor, Type 'A' instrument
- AMELEC Standard 10 year warranty

Technical Specifications

Input

Any current or voltage (DC) signal that can be terminated in a PI network to produce a 400mV span.
Typical Input options: 4-20mA (impedance 20 Ω), 0-1V or 0-5V or 0-10Vdc (impedance 1M Ω)

Analogue Output

Any standard process current or voltage signal option;
Current source up to 20mA with Drive voltage 11Vdc,
Current sink up to 20mA with External drive ≤ 30 Vdc,
Voltage source up to 10Vdc, Max current 20mA.
Typical Output options: 4-20mA (max load 550 Ω), or 0-5Vdc (min load 250 Ω) or 0-10Vdc (min load 500 Ω)

Relay Outputs

Each Trip output is a set of SPCO contacts, rated at 250VAC, 2A, 100VA (resistive).
Latching relay(s) option 'L' is available, with local front fascia pushbutton Reset facility

Performance

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

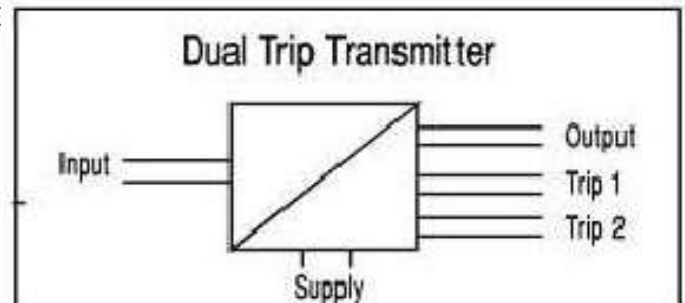
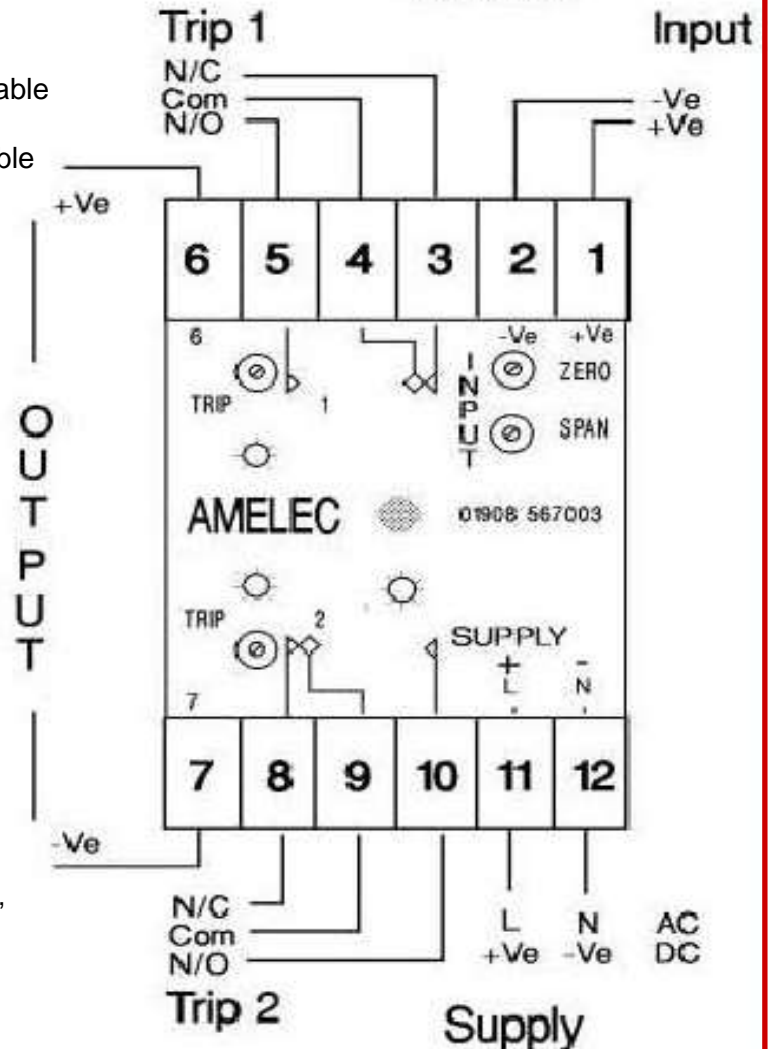
Environmental Conditions

Storage Temperature: -40 to 70 $^{\circ}$ C
Operating Ambient: -15 to 55 $^{\circ}$ C
Relative Humidity: 5 – 95% RH (non-condensing)
EMC: 2014/30/EU, EN 61326-1:2013 (controlled EM)
('K' option to the highest Generic Industrial levels)

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WIRING



Mounting/Dimensions

Either Din Rail (TS35) **or** Surface by corner fixing holes as standard.
Enclosure 50w x 75h x 110d (mm)
('DI' option enclosure 50w x 75h x 145d mm)
('K' option enclosure 50w x 75h x 182d mm)