

ADM233K Process I/V Signal Trip Transmitter

- 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 $\pm 20\%$
240Vac $\pm 20\%$
24Vdc $\pm 10\%$
48Vdc $\pm 10\%$
- RFI Protection to EN 61000-4-3:2006/A2:2010
- Non Smart / Non-uProcessor based, Type A instrument
- AMELEC Standard 10 year warranty

Technical Specifications

Input

Any current or voltage drive (DC) that can be terminated in a PI network to produce a 400mV span.

Typical Input options:

4-20mA (impedance 20 Ω), 0-10Vdc (impedance 1M Ω)

Analogue Output

Any standard process current or voltage

Current source up to 20mA. Drive voltage 11Vdc

Current sink up to 20mA. External drive max 30Vdc

Voltage source up to 10V. Max current 20mA

Typical Output options

4-20mA (max load 550 Ω), 0-10Vdc (min load 500 Ω)

Relay Outputs

Each Trip output is a set of S.P.C.O contacts, rated at 250VAC, 2A, 100VA (resistive)

Red LED status indicators **ON** Energised, **Extinguished** in Trip De-energised state as std.

Performance

Isolation: 500Vdc Input/Output/Contacts/Contacts/Supply/Earth

Accuracy/Linearity: $\leq \pm 0.1\%$ span

Response Time: $< 100\text{ms}$ (10-90% input step change)

Input O/C response Downscale drive as std

Relay: Fail safe, De-energise on 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)

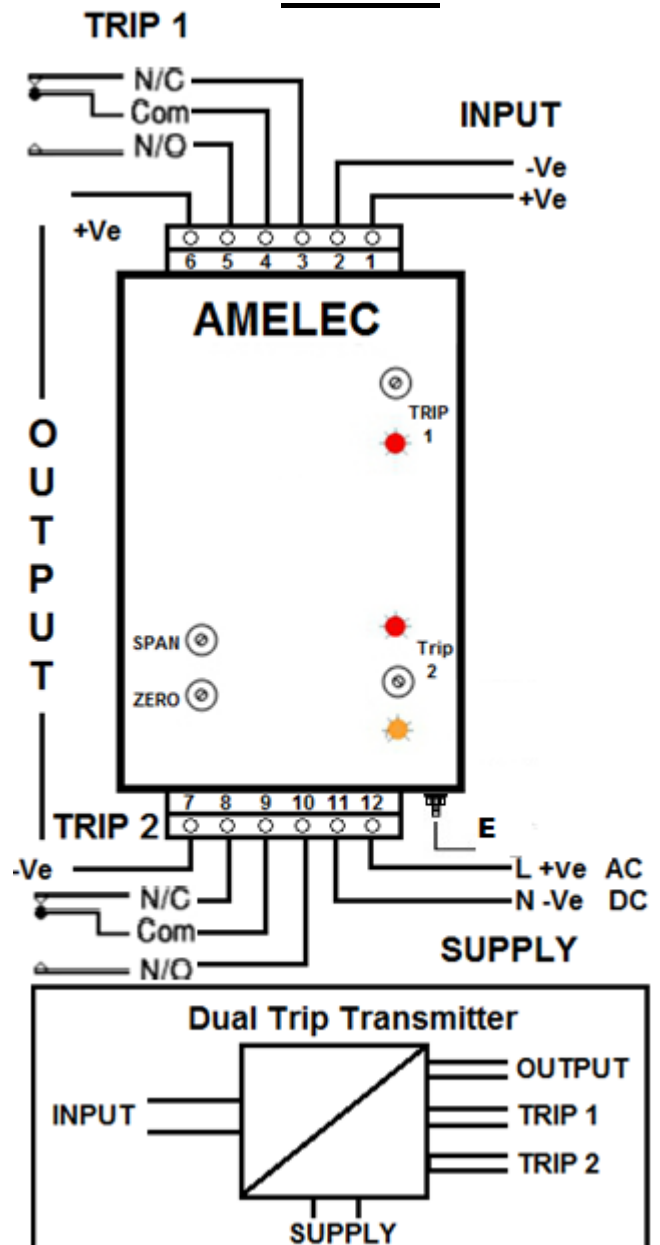
EMC: 2014/30/EU, EN 61326-1:2013 (Generic Industrial levels)

RF Immunity: 20MHz-3GHz/5.25GHz $\leq 10\text{V/m}$,
(80MHz-1GHz/5.6GHz $\leq 30\text{V/m}$, 889MHz-1.75GHz $\leq 40\text{V/m}$)

Additional Options available

- Input O/C response Upscale drive (**X** Option)
- 24Vdc @22mA Input loop Excitation (**M** Option)
- Digital Display on front fascia (**DI** Option)
- Bi-Polar / Modulus process input signals (**X** Option)

WIRING



Enclosure Dimensions

50w x 75h x 182d mm

(optional rear Keyhole mounting plate: 50w 130h mm)

Customer Termination

Fixed screw terminals std (Plug-in terminals optional)

Mounting

DIN Rail (TS35) std, otherwise Surface by seismic

Keyhole plate & Front of Panel mounting options also available.

Tel: 01908-567003 Email: sales@amelec-uk.com Visit: www.amelec-uk.com Fax: 01908-566735

AMELEC Instruments, Cochran Close, Crownhill, Milton Keynes, MK8 0AJ