

ADM232XK Process Signal Trip Transmitter – 2 x C.O Contacts

- 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
- 24Vdc @22mA two-wire Input loop Excitation optional ('M')
- Front fascia LCD or LED Digital Display options available ('DI')
- Non-Smart/Non-uProcessor based instrument (Type A)
- AMELEC Standard 10 year warranty

Technical Specifications

Input

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

Typically: 4-20mA (impedance 20 Ω) or 0-10Vdc (impedance 1M Ω).

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 ≤ 30 Vdc. Voltage source up to 10V, max current 20mA.

Typically: 4-20mA (max load 550 Ω) or 0-10Vdc (min load 500 Ω).

Trip Output

A pair of Changeover relay contacts as std, rated at 250VAC, 2A, 100VA (resistive). Latching relay option 'L' available, with Local or Remote Reset facility. Red LED Relay status indicator; **ON** Energised/healthy, **Extinguished** in Trip De-energised state as standard.
(Red/Green BI-colour LED indicator optional)

Performance

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

Accuracy/Linearity: $\pm 0.1\%$

Trip settability: $\pm 1\%$

Trip repeatability: $\pm 0.1\%$

Deadband: 1% span as std (adjustable 1-20% span optional 'V')

Response time: <100mS as standard (10-90% step change)

Supply consumption: <4VA

Input O/C response: Downscale drive as standard

(O/C Upscale drive Trip option 'X' available if required)

Fail Safe Relays: De-energise on Trip & Loss of Power as standard

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)

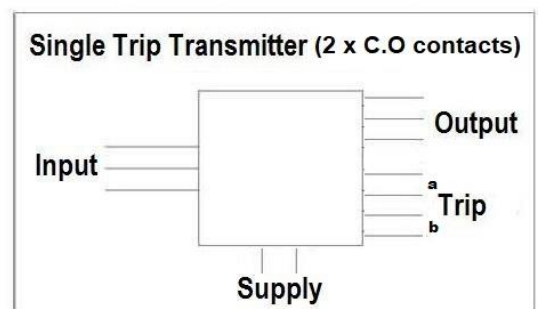
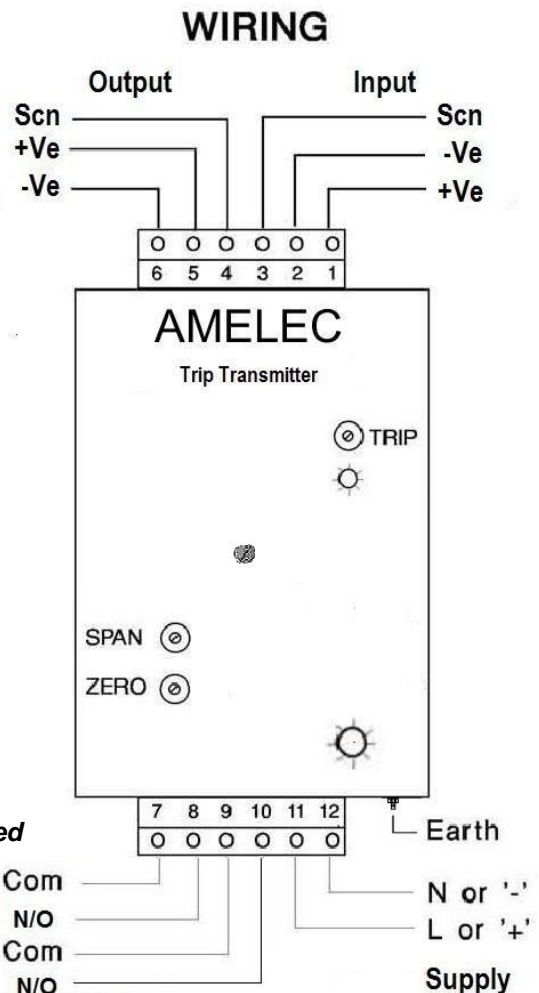
RF Immunity: 20MHz-3GHz/5.25GHz ≤ 10 V/m,
(80MHz-1GHz/5.6GHz ≤ 30 V/m, 889MHz/1.75GHz ≤ 40 V/m).

RoHS: 2011/65/EU

Customer Termination

Fixed screw terminals towards rear of enclosure as standard

(Plug-in screw terminals optional)



Mounting/Dimensions

DIN Rail (TS35) as standard

Enclosure Dimensions: 50w x 75h x 182d mm.

Surface by rear 50w x 130h (mm) seismic Keyhole plate option also available.

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