

ADM232K Process 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
- 24Vdc @22mA two-wire Input loop Excitation optional ('M')
- 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 set of single pole 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)

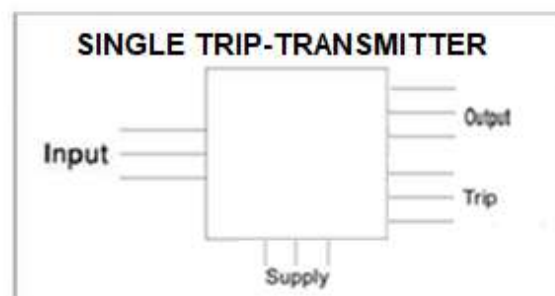
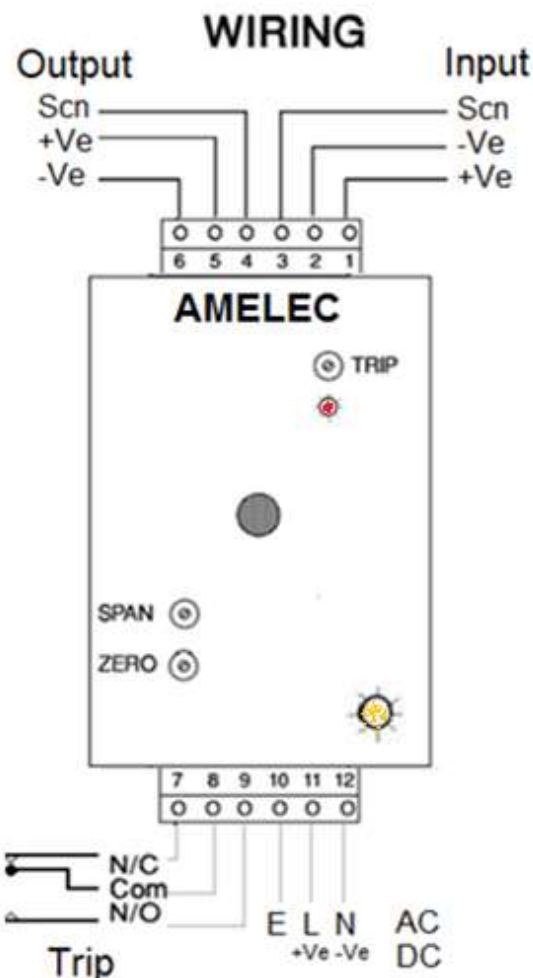
RF Immunity: 20MHz-3GHz/5.25GHz ≤ 10 V/m,
(80MHz-1GHz/5.6GHz ≤ 30 V/m, 889MHz/1.75GHz ≤ 40 V/m).

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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