

ADT131KX-DI-RIS-ET7214 Process I/V Trip Amplifier with Display

- Suitable for SIL 1 & SIL 2 rated (EN 61508-2) safety instrumented system (SIS) loop applications, as 1oo1 architecture (HFT:0)
- Non-Smart / Non-uProcessor, Type A instrument
- 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
- AMELEC Standard 10 year warranty

Technical Specifications

Input

Any current or voltage drive that can be terminated in a PI network to produce a 400mV span.
(24Vdc @22mA 2-wire input loop Excitation, 'E' option available on request)

Trip Relay Output

A pair of either N.O or N.C contacts (to be advised at time of orders), rated at 250VAC, 3A, 100VA resistive as standard.

Red LED indication of Trip Relay status; Extinguished in energised/ healthy state, ON in De-energised/Alarm state.
Relays De-energise on Trip & Fail Safe on loss of power as standard

Digital Display

Continuous indication of the input on a 3½ digit Front Fascia LCD, scaled as either 0-100.0 (%) or in Engineering units to suit applications. Front fascia Read button shows the trip set point within the same range on the display, Calibration Range available: -1999 to +1999

Performance

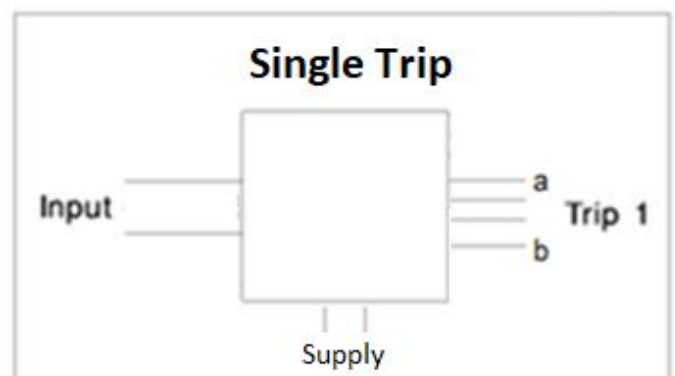
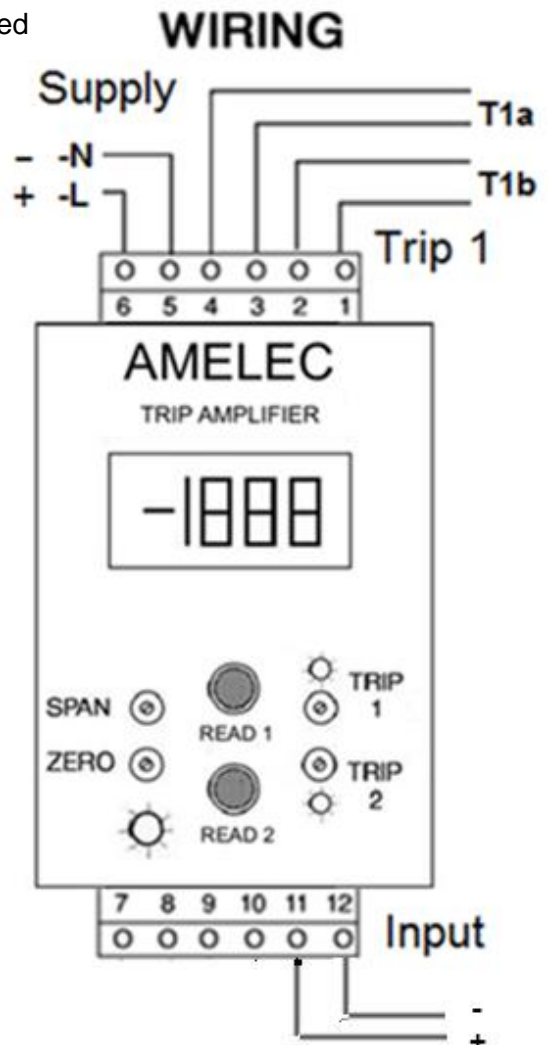
Deadband: Fixed 1% std ('other' fixed Hysteresis ranges available)
Trip settability: $\pm 0.1\%$
Trip repeatability: $\pm 0.1\%$
Response time: $< 100\text{ms}$ (0-100% input step change)
Isolation: 500Vdc Input/Contacts/Supply/Earth
Input O/C response: Downscale drive as standard
(O/C response Upscale drive available on request)
RF Immunity: 20MHz-3GHz/5.25GHz $\leq 10\text{V/m}$,
80MHz-1GHz/5.6GHz $\leq 30\text{V/m}$, 889MHz/1.75GHz $\leq 40\text{V/m}$.

Environmental Conditions

Storage Temperature: -40 to 70°C
Operating Ambient: -15 to 55°C
Relative Humidity: 5 – 95% RH
EMC: 2014/30/EU, EN 61326-1:2013 (Generic Industrial levels)

Customer Termination

Fixed screw terminals as standard
(Plug-in terminals available on request)



Mounting/Dimensions

Enclosure Dimensions: 50w x 75h x 182d mm
Din Rail (TS35) mounting as Standard.
Seismic/Surface Keyhole plate (50wx130h mm) & Front of Panel options also available on request.

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