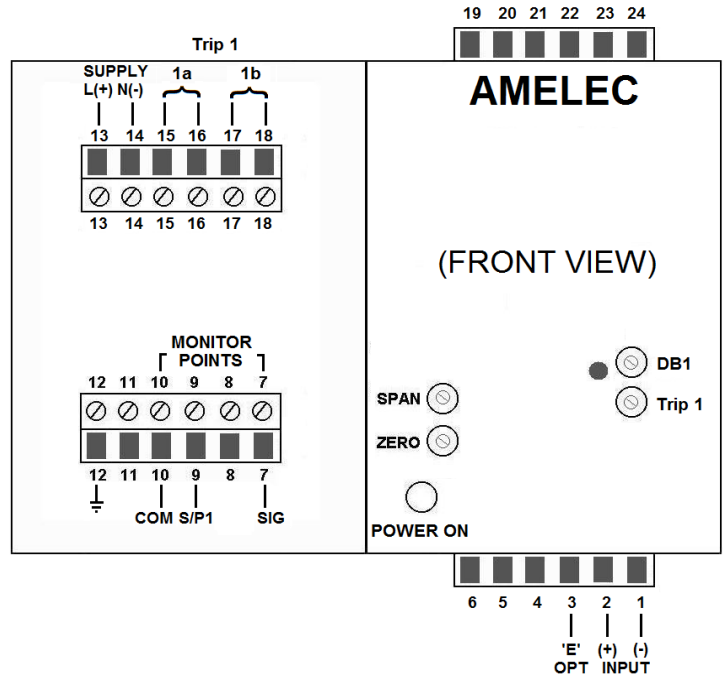


ADT131K-V-RIS-ET7214 Process Trip Amplifier

- Suitable for SIL 1, SIL 2 or 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
- AMELEC Standard 10 year warranty
- Digital Indication available (DI option)
- 24Vdc @ 22mA two wire I/P loop excitation available ('E' option)
- Non-Smart/Non-uProcessor based, Type 'A' instrument

Wiring



Technical Specifications

Input

Any current or voltage (DC) drive that can be terminated in a PI network to produce a 400mV span. Typically:
0-1mA, 0-10mA, 4-20mA, 0-5V, 0.4-2.0V, 0-10V, 0-100Vdc

Output Relay Contacts

A pair of either N.O or N.C contacts (TBA at time of orders) rated 3A 240Vac resistive load as standard.
Set point adjustment via a 15-turn blindset potentiometer.

Deadband

Adjustable Hysteresis from 0.5 to 20% of span, set via a 15-turn blindset potentiometer.

Performance

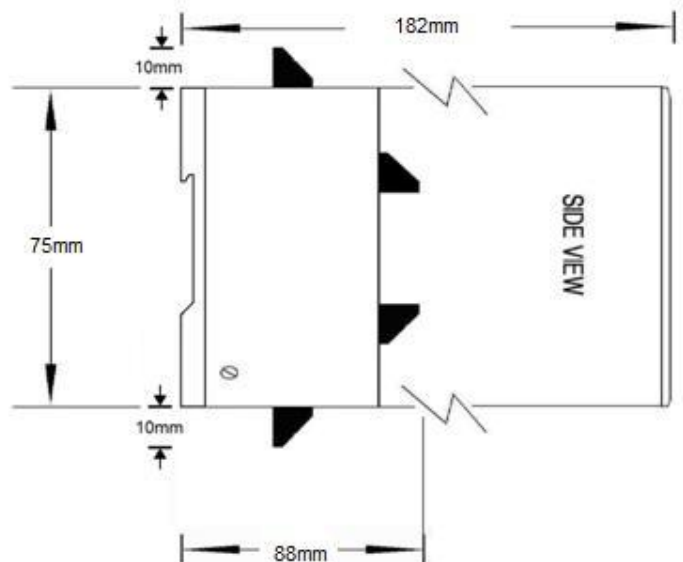
Trip settability: $\pm 1\%$
 Trip repeatability: $\pm 0.1\%$
 Response time: <100mS (0-100% input step change)
 Isolation: 500Vdc Input/Contacts/Supply/Earth
 Monitor Points: 0-5Vdc representing 0-100% of input Span
 Open circuit response: Downscale drive as standard
 (O/C response Upscale drive option available on request)

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 screw terminal blocks option available)



Mounting / Dimensions:

Heavy duty Din Rail (TS35) as standard,
 Enclosure overall Dims: 100w x 75h x 182d mm.
 (Surface by Seismic keyhole plate option available,
 Rear Mounting Plate Dims: 100w x 130h mm).