

ADT131K-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
- Digital Display option available ('DI' option)
- 24Vdc @ 22mA two wire I/P loop Excitation available ('E' option)
- Non-Smart/Non-uProcessor based, Type 'A' instrument
- AMELEC Standard 10 year warranty

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, rated 3A 240Vac resistive load as standard.
Set point adjustment via a 15-turn blindset potentiometer.

Performance

Trip settability: $\pm 1\%$
Trip repeatability: $\pm 0.1\%$
Response time: <100mS (0-100% input step change)
Deadband: 1% span Hysteresis as standard
(Wider fixed bands or 0.5-20% Variable hysteresis optional)
Isolation: 500Vdc Input/Contacts/Supply/Earth
Monitor Points: 0-5Vdc representing 0-100% of input Span
Input Open circuit response: Downscale drive as standard
(O/C response Upscale drive option available)

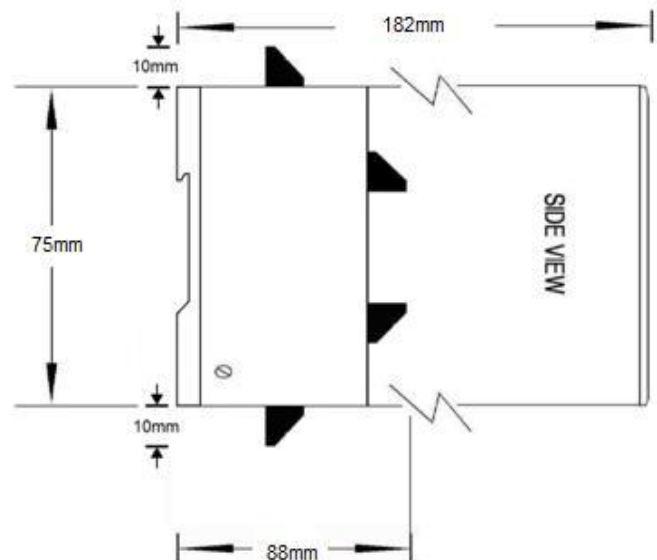
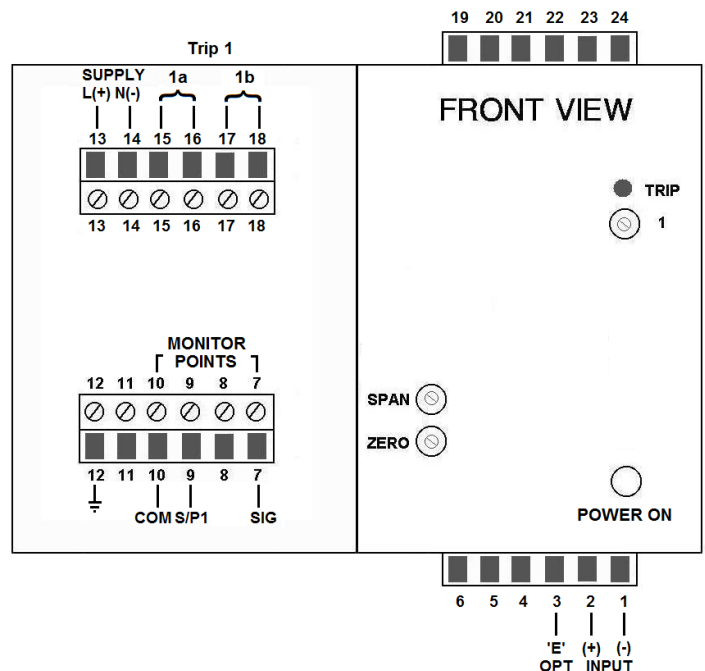
Environmental Conditions

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)

Wiring



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).