

ADT131KX-RIS-SC7403-N Process Trip Amplifier

- Suitable for SIL 1, SIL 2 or SIL 3 rated (IEC61508) safety system loop applications
- Supply voltage options: 115Vac $\pm 20\%$
240Vac $\pm 20\%$
24Vdc $\pm 10\%$
48Vdc $\pm 10\%$
- RFI Protection to IEC61000-4-3:2006/A2:2010
- LCD/LED Digital Display options available ('DI' option)
- 24Vdc @ 22mA two wire Input loop Excitation option available ('M' option)
- 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 can be specified. Typical examples; 0-1mA, 0-10mA, 4-20mA, 0.4-2.0V, 0-10V, 0-100Vdc

Output

Trip 1 = Process Trip/Alarm, Trip 2 = Input Sensor Fault.
Each trip output is a set of SPCO contacts, rated at 250VAC, 3A, 100VA resistive. Trip 1 status Red LED ON=Alarm, Off=healthy, Trip 2 status Green LED ON=Input healthy, Off=O/C,S/C Fault.

Fixed or Variable Time Delays to Trip ('T' option) can be specified

Deadband

1% Span as standard. Other fixed Bands or Adjustable 0.5-20% span hysteresis ('V' option) can be specified.

Protection

Isolation: 500Vdc Input/Contacts/Contacts/Supply/Earth
RF Immunity: 20MHz-3GHz/5.25GHz $\leq 10\text{V/m}$,
80MHz-1GHz/5.6GHz $\leq 30\text{V/m}$, 889MHz-1.75GHz $\leq 40\text{V/m}$.

Performance

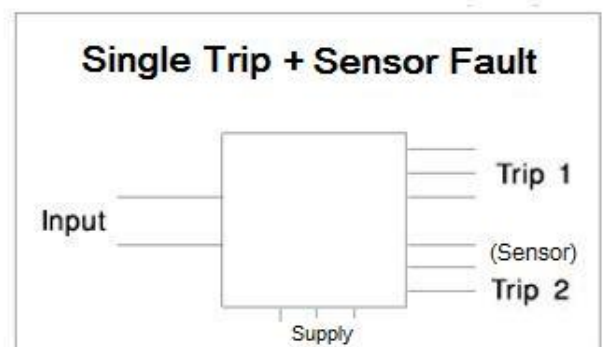
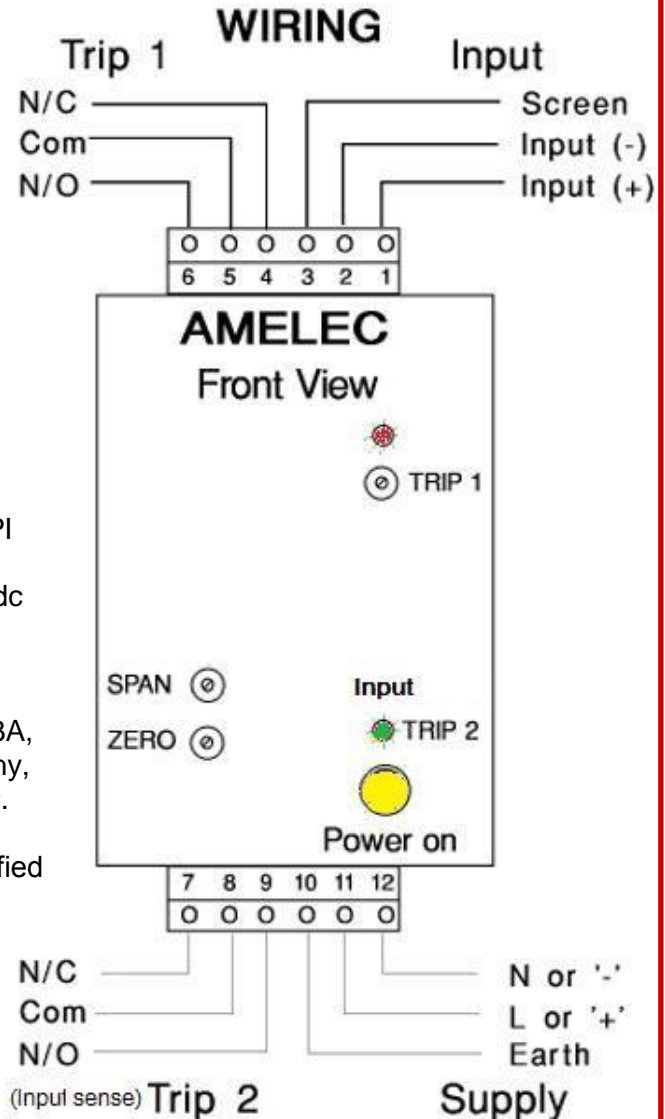
Trip settability: $\pm 1\%$
Trip repeatability: $\pm 0.1\%$
Response time: $< 100\text{ms}$
Input Open Circuit response: Trip 2 / Downscale drive as std.
(O/C Upscale drive response 'Up' can be specified if preferred)
Fail safe as std: Relays De-energise on Trip & Supply Fail.

Environmental Conditions

Storage Temperature: -40 to 70°C
Operating Ambient: -15 to 55°C
Relative Humidity: 5 – 95% RH

Dimensions

50w x 75h x 182d (mm)



Mounting Options

Heavy duty Din Rail (TS35) as standard.

Surface by Seismic key hole plate option available
(mounting plate Dimension: 50w x 130h mm)

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