

ADT132K Process I/V 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 $\pm 10\%$
- Non-Smart/Non-uProcessor based, Type A instrument
- RFI Protection to EN 61000-4-3:2006/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. Typical examples; 0-1mA, 0-10mA, 4-20mA, 0-5V, 0.4-2.0V, 0-10V, 0-100Vdc

Relay Outputs

Each trip output is a set of SPCO contacts, rated at 250VAC, 2A, 100VA resistive as std. (Other ratings available – 'X' option)

Latching relays with local or remote reset available ('L' option)

Deadband

Standard nom 1% Span, other fixed Bands available on request. (Adjustable 0.5-20% hysteresis available – 'V' option)

Performance

Trip settability: $\pm 1\%$
Trip repeatability: $\pm 0.1\%$
Response time: $< 100\text{ms}$ (0-100% step change)
Input Open Circuit response: Downscale drive as standard (O/C Upscale drive available if required – 'X' option)

Fixed or Variable Time Delay into Trip available – 'T' option

Protection

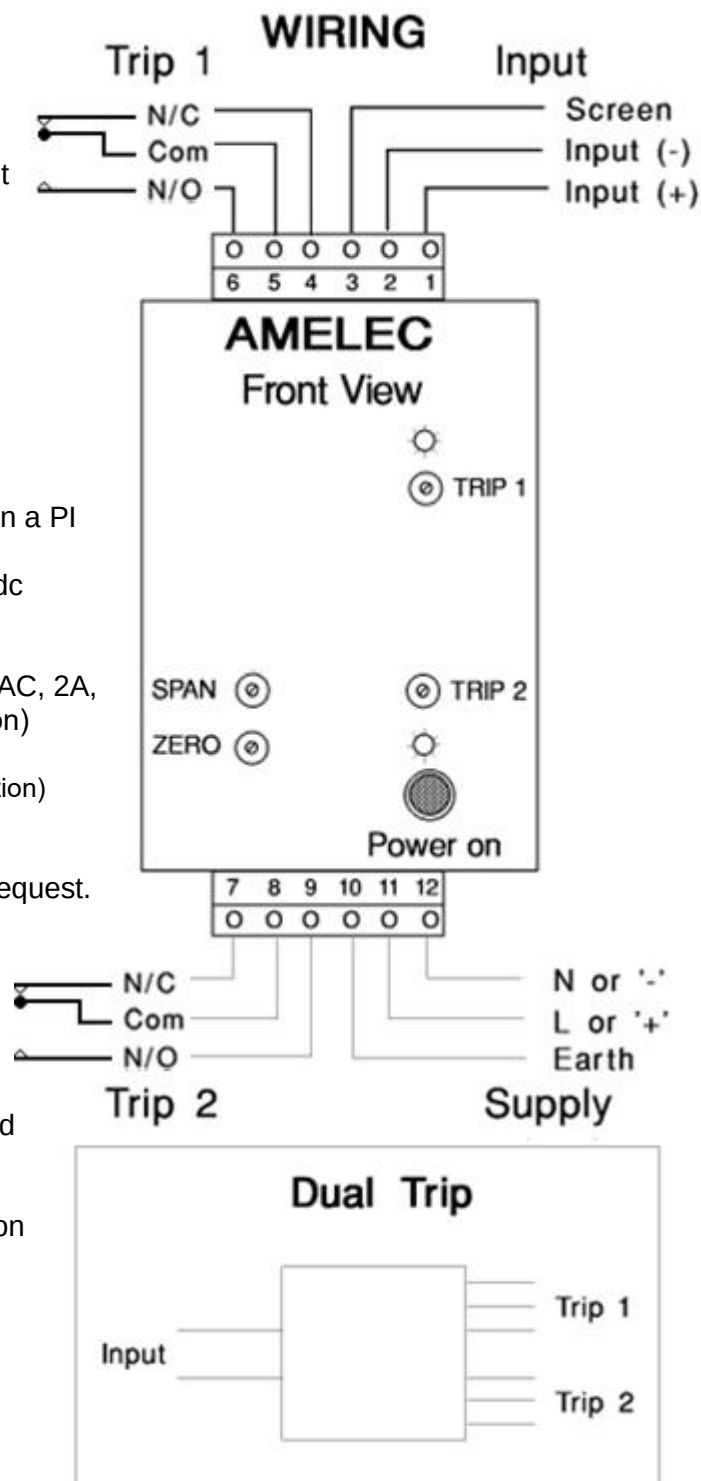
Isolation: 500Vdc Input/Contacts/Contacts/Supply/Earth
RF Immunity: 20MHz-3GHz/5.25GHz $\leq 10\text{V/m}$,
(80MHz-1GHz/5.6GHz $\leq 30\text{V/m}$, 889MHz/1.75GHz $\leq 40\text{V/m}$)

Environmental Conditions

Storage Temperature: -40°C to $+70^\circ\text{C}$
Operating Ambient: -15°C to $+55^\circ\text{C}$
Relative Humidity: 5 – 95% RH (Non-Condensing)
EMC: 2014/30/EU, EN 61326-1:2013 (Generic Industrial levels)

Dimensions

50w x 75h x 182d mm



Mounting Options

Heavy duty Din Rail (TS35) as standard.

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

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