

ADT132TX Process I/V Trip Amplifier with Time Delays

- Suitable for SIL 1, SIL 2 or SIL 3 rated (EN 61508-2) safety instrumented system (SIS) loop applications
- Supply voltage options: 115Vac or 230Vac $\pm 20\%$
 24Vac $\pm 10\%$
 24Vdc $\pm 10\%$
 48Vdc $\pm 10\%$
- Non-Smart/Non-uProcessor based, Type A instrument
- RFI Protection to EN 61000-4-3:2006/A2:2010 option available ('K' option)
- 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)

Time Delays into & out of Trip 1

Delays of 2 Seconds up to 40 Minutes may be specified, with adjustment by blindset 15-turn potentiometers on unit front fascia

Deadband

Standard nom 1% Span, other fixed Bands available on request.

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)

Protection

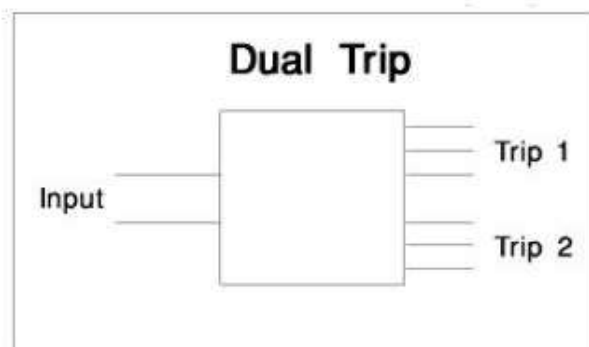
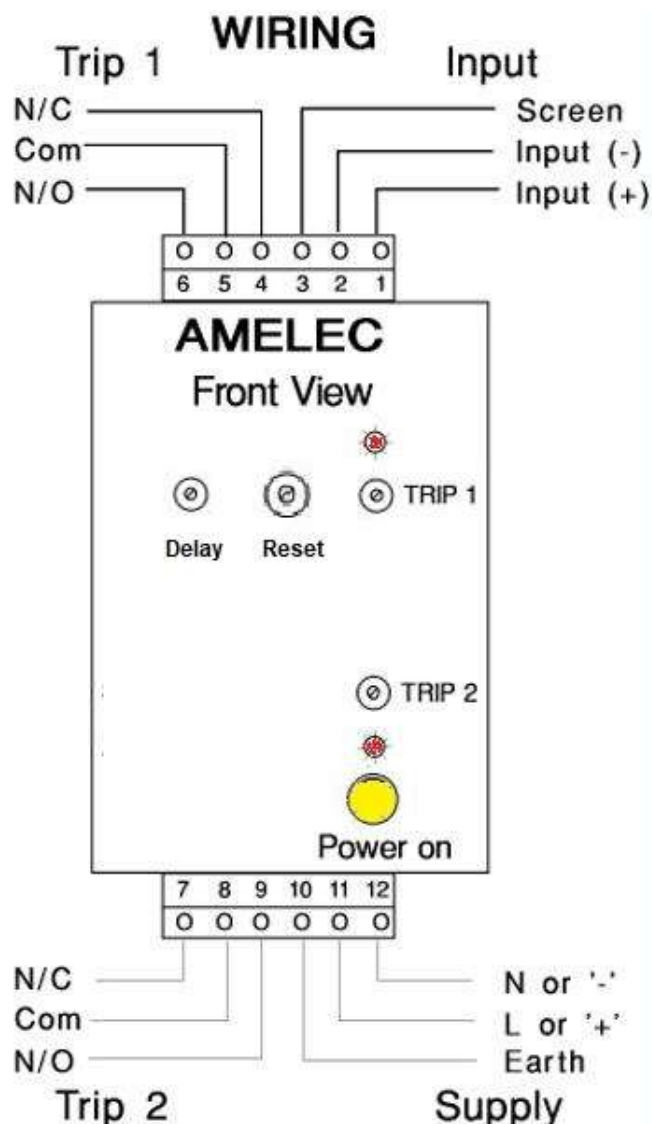
Isolation: 1000V RMS* Input/Contacts/Contacts/Supply/Earth
 *(500Vdc when 'K' option specified, with full RF Immunity:
 20MHz-3GHz/5.25GHz $\leq 10\text{V/m}$, 80MHz-1GHz/5.6GHz $\leq 30\text{V/m}$,
 889MHz/1.75GHz $\leq 40\text{V/m}$)

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 (Controlled EM)
 ('K' option to highest Generic Industrial levels)

Dimensions

50w x 75h x 146d mm ('K' option = 182d mm)



Mounting Options

Din Rail (TS35) as standard.

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

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