

## ADT131K Process I/V Trip Amplifier with Single Set Point

- 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
- Front fascia LCD or LED Digital Display options available ('DI' option)
- 24Vdc @ 22mA two wire Input loop Excitation 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, 0-10V, 0-100Vdc

#### Deadband

Nom. 1% of Span hysteresis as standard  
(Adjustable hysteresis 0.5-20% span available – 'V' option)

#### Relay Outputs

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

Latching Relay with local or remote Reset available – 'L' option  
Fixed or Variable Time Delay into Trip options available – 'T' option

#### Protection

Fuse: 250mA as standard  
Isolation: 500Vdc Input/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

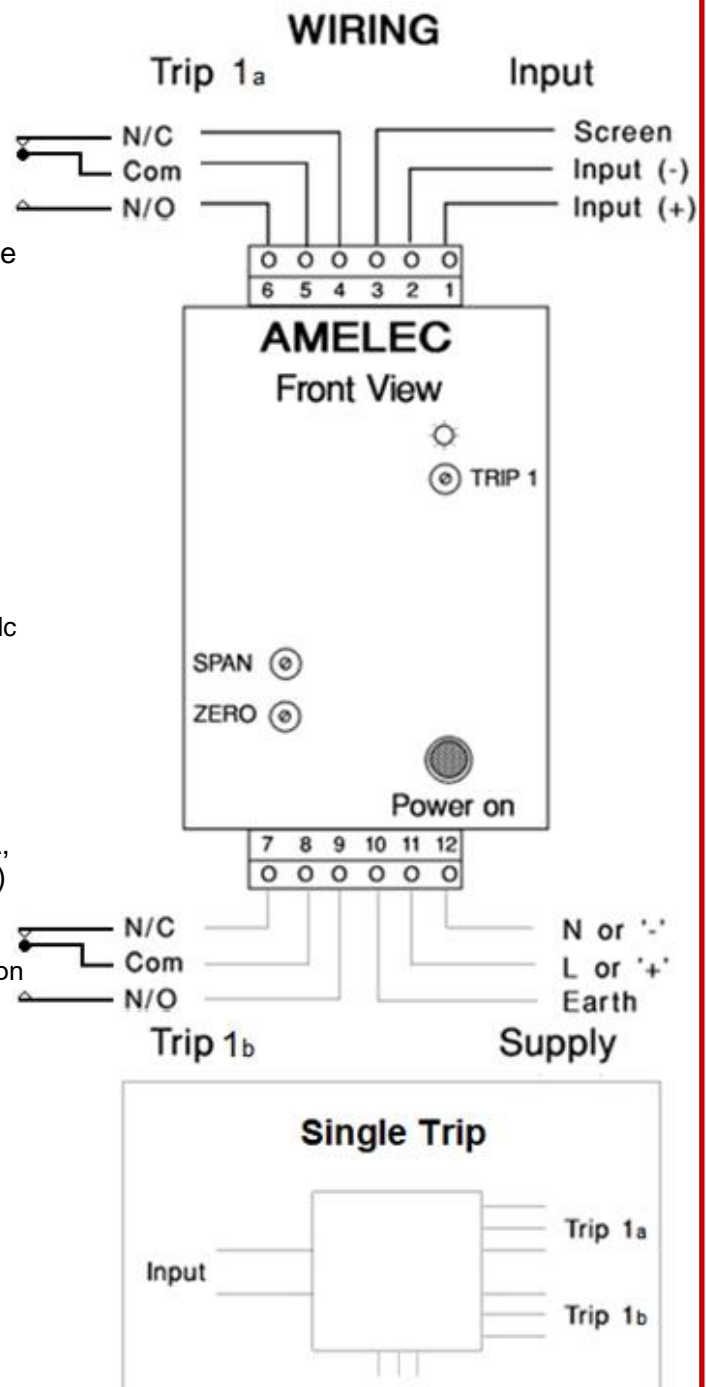
Trip settability:  $\pm 1\%$   
Trip repeatability:  $\pm 0.1\%$   
Response time:  $\leq 100\text{mS}$  (0-100% step change)  
Consumption:  $\leq 3\text{VA}$   
Input Open Circuit response: Downscale drive as standard  
(O/C Upscale drive response available if required – 'X' option)

#### Environmental Conditions

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

#### Dimensions

Standard enclosure: 50w x 75h x 182d (mm)



### Mounting Options

Heavy duty Din Rail (TS35) as standard

Surface by Seismic keyhole plate & Front of Panel mounting options also available on request.

(Surface mounting plate Dims: 50w x 130h mm)

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