

## ADT132X-3 (K) 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  $\pm 10\%$   
(Other supply options available on request - 'X' option)
- Non-Smart / Non-uProcessor based, Type A instrument
- Up to 3 x Relay outputs, each with a fully adjustable set point
- RFI Protection to EN 61000-4-3:2006/A2:2010 option available ('K' option)
- 24Vdc @ 22mA two wire Input loop Excitation 'M' option available
- 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

#### 3 x Relay Outputs

Trip1 output is a set of SPCO contacts, Trip2 & Trip3 outputs are C.O contacts, rated at 250VAC, 2A, 100VA resistive as std. (Other ratings available – 'X' option)  
Latching relays option 'L' available, with local or remote reset.

#### Trip Hysteresis/Deadbands

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 RF Immunity: 20MHz-3GHz/5.25GHz  $\leq 10\text{V/m}$ , 80MHz-1GHz/5.6GHz  $\leq 30\text{V/m}$ , 889MHz/1.75GHz  $\leq 40\text{V/m}$ )

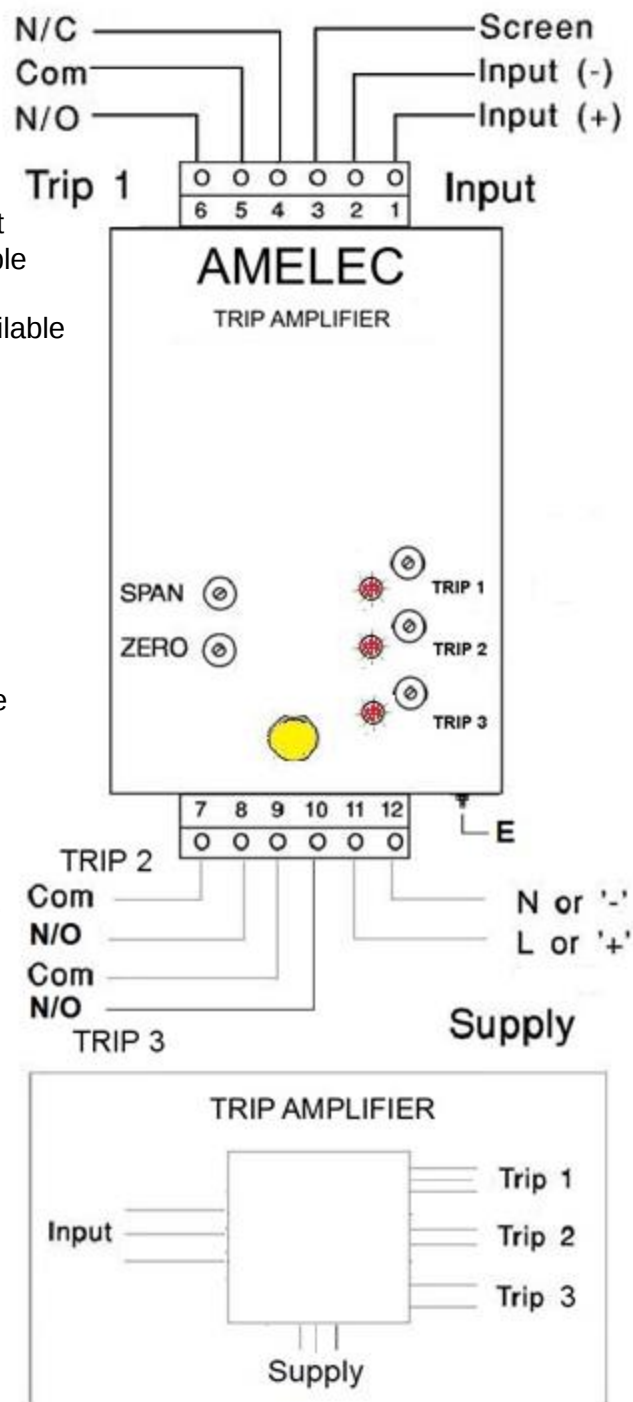
#### Environmental Conditions

Storage Temperature:  $-40^\circ\text{C}$  to  $+70^\circ\text{C}$   
Operating Ambient:  $-15^\circ\text{C}$  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 Generic Industrial levels)

#### Dimensions

50w x 75h x 145d mm ('k' option = 182d mm)

### WIRING



### Mounting Options

Heavy duty Din Rail (TS35) as standard.

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

Fixed Screw Terminals towards rear of enclosure as std. (Plug-in terminals option also available)

Tel: 01908-567003 Email: [sales@amelec-uk.com](mailto:sales@amelec-uk.com) Visit: [www.amelec-uk.com](http://www.amelec-uk.com) Fax: 01908-566735

**AMELEC Instruments, Cochran Close, Crownhill, Milton Keynes, MK8 0AJ**