

## ADT131XM Process input Dual Trip Amplifier

- Suitable for SIL 1, SIL 2 or SIL 3 rated (IEC61508-2) safety system loop applications
- Supply voltage options: 20Vac  $\pm 20\%$   
115Vac  $\pm 20\%$   
240Vac  $\pm 20\%$   
24Vdc  $\pm 10\%$   
48Vdc  $\pm 10\%$
- RFI Protection to IEC61000-4-3:2006/A2:2010 option 'K' available ( $20\text{-}3000\text{MHz} \leq 10\text{V/m}$ ,  $80\text{-}1000\text{MHz} \leq 30\text{V/m}$ ,  $889\text{MHz}\text{-}1.75\text{GHz} \leq 40\text{V/m}$ )
- 24Vdc @22mA two-wire Input loop Excitation
- Fixed or Variable Time Delay into Trip 'T' option available
- Latching Relay(s) option 'L' with local Reset facility available
- Front fascia Digital Display 'DI' option available
- AMELEC Standard 10 year warranty

### Technical Specifications

#### Input

Any current drive that can be terminated in a PI network to produce a 400mV span.

Typical inputs: 0/4-20mA, 0-10mA, 0-22mA

#### Outputs

Each trip output is a set of changeover contacts, rated at 250VAC, 2A, 100VA resistive.

Relays De-energise on Trip & Fail Safe on loss of power as std  
Red LED indication of each relay status

(ON Energised/healthy, Extinguish in Trip/De-energised state)

Trip1 for High Current, Trip2 for Low/Loss of Current Alarms

#### Isolation

1000V RMS\* Input/Contacts/Contacts/Supply/Earth

\*(500Vdc if RFI option 'K' is specified)

#### Performance

Trip settability:  $\pm 1\%$

Trip repeatability:  $\pm 0.1\%$

Response time:  $< 100\text{ms}$

Deadband: 1% Span as std.

(Variable hysteresis 0.5%-20% span available – 'V' option)

Input Open Circuit response: Downscale drive as std

(O/C Upscale drive available on request – 'X' option)

#### Environmental Conditions

Storage Temperature:  $-40$  to  $70^\circ\text{C}$

Operating Ambient:  $-15$  to  $55^\circ\text{C}$

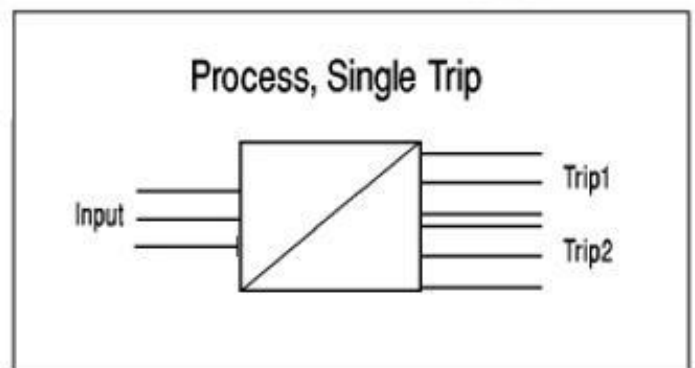
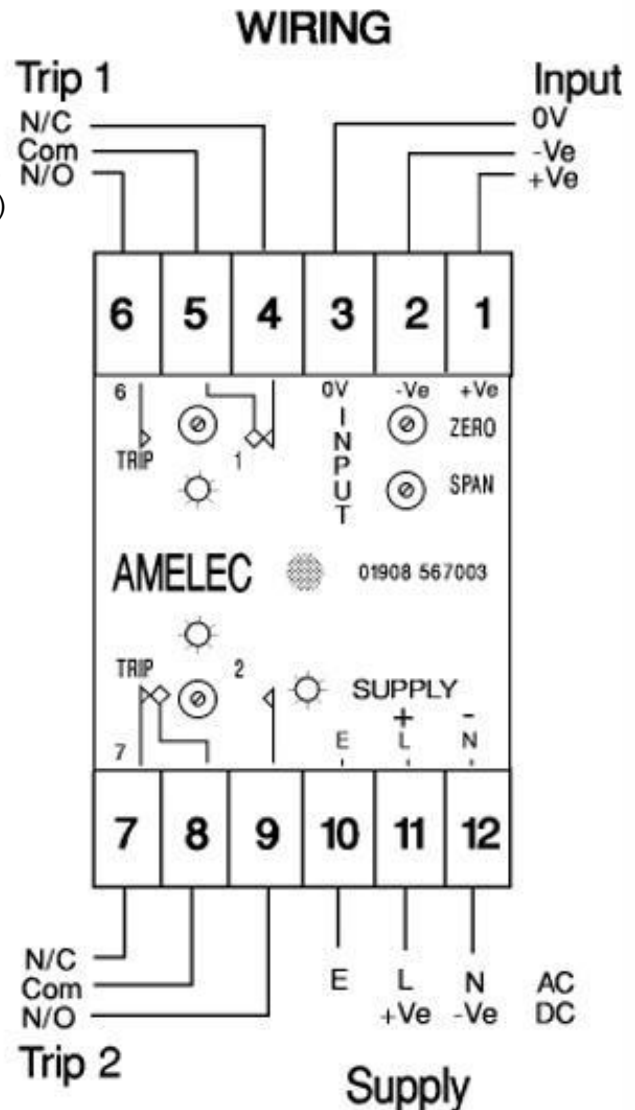
Relative Humidity: 5 – 95% RH

#### Dimensions

50w x 75h x 110d (mm)

#### Mounting

Din Rail (TS35) or Surface by corner fixing holes as std



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