

ADT131X-3 Process Trip Amplifier with Single set point

- Suitable for SIL 1, SIL 2 or SIL 3 rated (IEC61508-2) safety system loop applications
Supply voltage options: 20Vac $\pm 20\%$
115Vac $\pm 20\%$
230Vac $\pm 20\%$
24Vdc $\pm 10\%$
48Vdc $\pm 10\%$
- RFI Protection to IEC61000-4-3:2006/A2:2010 option 'K' available (20-3000MHz 10V/m, 80-1000MHz 30V/m)
- 24Vdc @22mA two-wire Input loop Excitation option 'M' available
- Fixed or Variable Time Delay into Trip 'T' option available
- Front fascia Digital Display 'DI' option available
- AMELEC Standard 10 year warranty

Technical Specifications

Input

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

Typical inputs: 4-20mA, 0-10mA, 1-5Vdc or 0-10Vdc

Outputs

Trip output is 3 x N.O contacts as std, rated at 250VAC, 2A, 100VA resistive. (N.C contacts option available on request)

Relays De-energise/Contacts Open on Trip & Fail Safe on loss of power as std. Red LED indication of relay status; ON Energised, Extinguished in Trip/De-energised state.

Latching relay with local or remote Reset facility 'L' option available

Isolation

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

*(500Vdc when 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% 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°C

Operating Ambient: -15 to 55°C

Relative Humidity: 5 – 95% RH

Dimensions

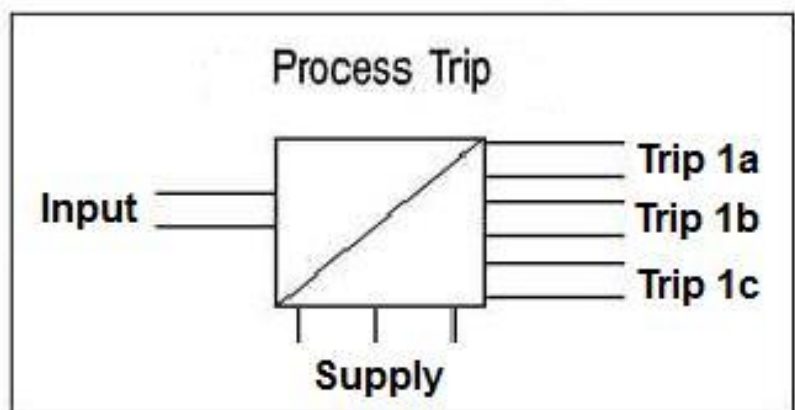
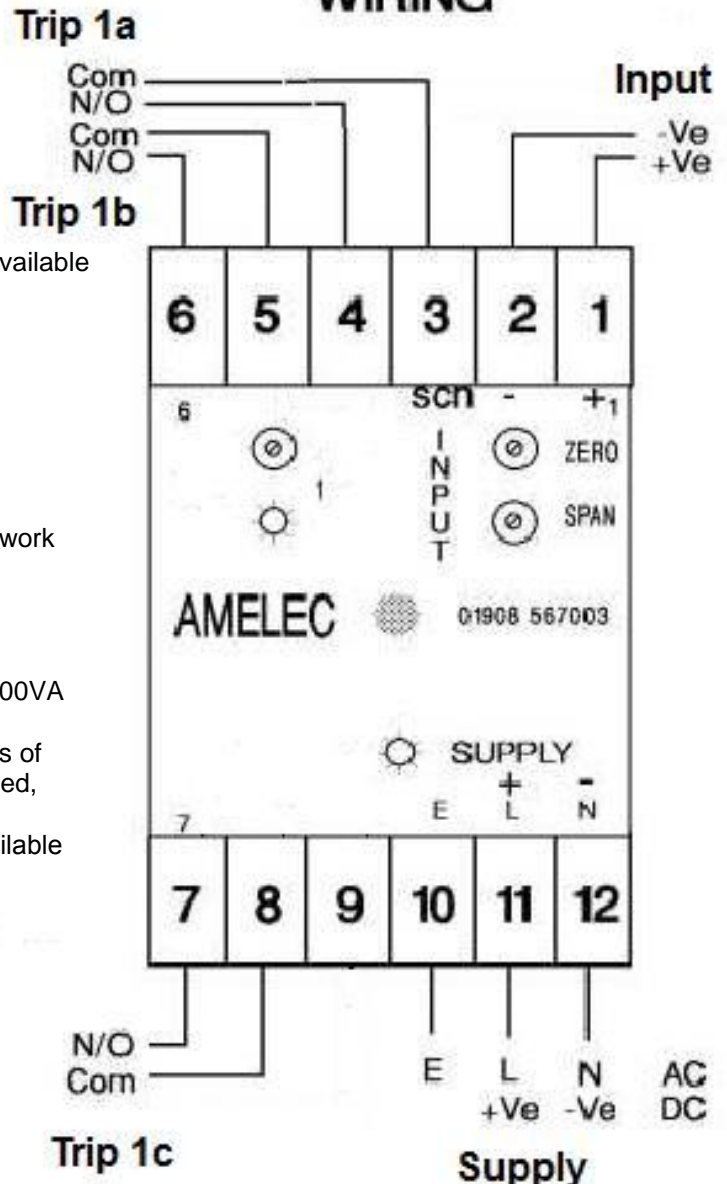
50w x 75h x 110d mm ('K' option = 182d mm)

Mounting

Din Rail (TS35) **or** Surface by corner fixing holes.

(seismic Keyhole plate available for 'K' option units)

WIRING



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