

ADT132L Process I/V input Dual Trip Amplifier

- Suitable for SIL 1, SIL 2 or SIL 3 rated (EN 61508) Safety Instrumented System (SIS) loop applications
- Supply voltage options: 20Vac $\pm 20\%$
115Vac $\pm 20\%$
240Vac $\pm 20\%$
24Vdc $\pm 10\%$
48Vdc $\pm 10\%$
- RFI Protection to EN 61000-4-3:2006/A2:2010 option 'K' available (20-3000MHz $\leq 10V/m$, 80-1000MHz $\leq 30V/m$, 889MHz/1.75GHz $\leq 40V/m$)
- 24Vdc @22mA two-wire Input loop Excitation option 'M' available
- Fixed or Variable Time Delay into Trip 'T' option available
- Latching Relay(s) with Remote Reset Contact Closure facility
- Front fascia Digital Display 'DI' option available
- Non-smart / Non-uProcessor based, Type A instrument
- 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.

Current up to 100mA max input (passive port)

Voltage up to 150Vdc max (impedance $\geq 1M\Omega$)

Typical Input: 4-20mA (impedance 20 Ω) or 0-10Vdc (impedance 1M Ω)

Outputs

Trip1 output is a set of S.P.C.O contacts, Trip2 is a C.O contact, Each 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)

Isolation

1000V RMS* Input/Contacts/Contact/Supply

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

Performance

Trip settability: $\pm 1\%$

Trip repeatability: $\pm 0.1\%$

Response time: <100mS (0-100% input step change)

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)

Consumption: <3VA

Environmental Conditions

Storage Temperature: -40 to 70°C

Operating Ambient: -15 to 55°C

Relative Humidity: 5 – 95% RH (Non-Condensing)

EMC: 2014/30/EU, EN 61326-1:2013 (Controlled EM)**

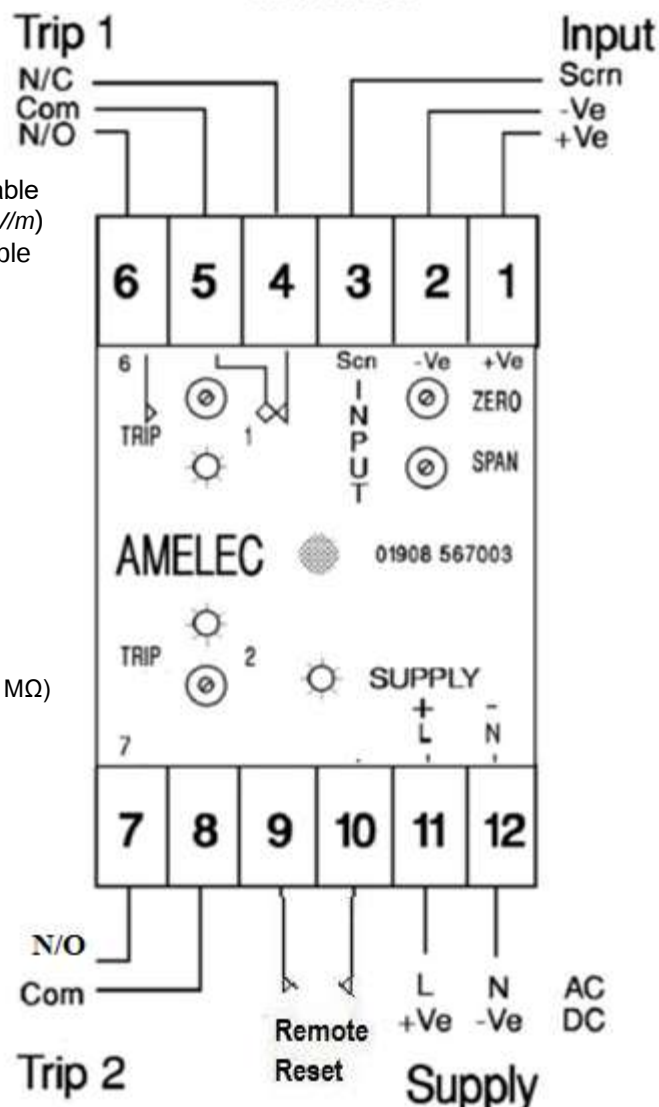
**('K' option to the highest Generic Industrial levels)

Dimensions/Mounting

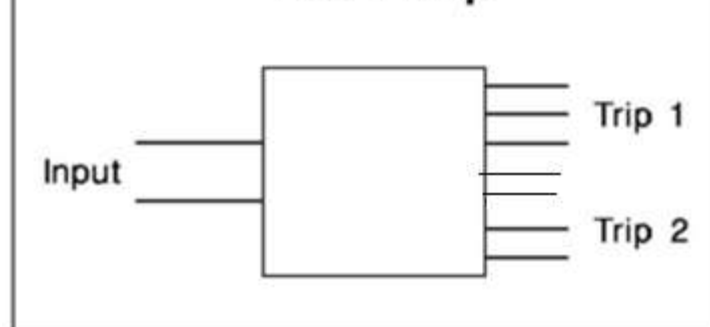
50w x 75h x 110d (mm)

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

WIRING



Dual Trip



Tel: 01908-567003 Email: sales@amelec-uk.com Visit: www.amelec-uk.com Fax: 01908-566735

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