

ADT131KTL Single Trip Amplifier with Latching Relay + Remote Reset Facility

- Suitable for SIL 1 & SIL 2 rated (IEC61508-2) safety instrumented system (SIS) loop applications, as 1oo1 architecture (HFT:0)
- 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
- 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
- Non-Smart / Non-uProcessor based, Type A instrument
- 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, 0-10Vdc or 0-100Vdc.

Output

A set of Latching Relay contacts (T1a=N.O, T1b=S.P.C.O), with a common Remote Contact Reset facility.
Changeover contacts, rated at 250VAC, 2A, 100VA resistive.
Fail Safe Relay De-energises on Trip & on loss of power as std
Red LED indication of relay status
(ON Energised/healthy, Extinguished in Trip/De-energised state)

Performance

Trip settability: $\pm 1\%$
Trip repeatability: $\pm 0.1\%$
Isolation: 500Vdc Input/Contacts/Supply/Earth
Response time: <100mS (0-100% input step change)
Deadband: 1% Span Hysteresis as std.
(Variable hysteresis 0.5%-20% span 'V' option available)
Input Open Circuit response: Downscale drive as std
(O/C Upscale drive available – 'X' option)
Consumption: <3VA

Environmental Conditions

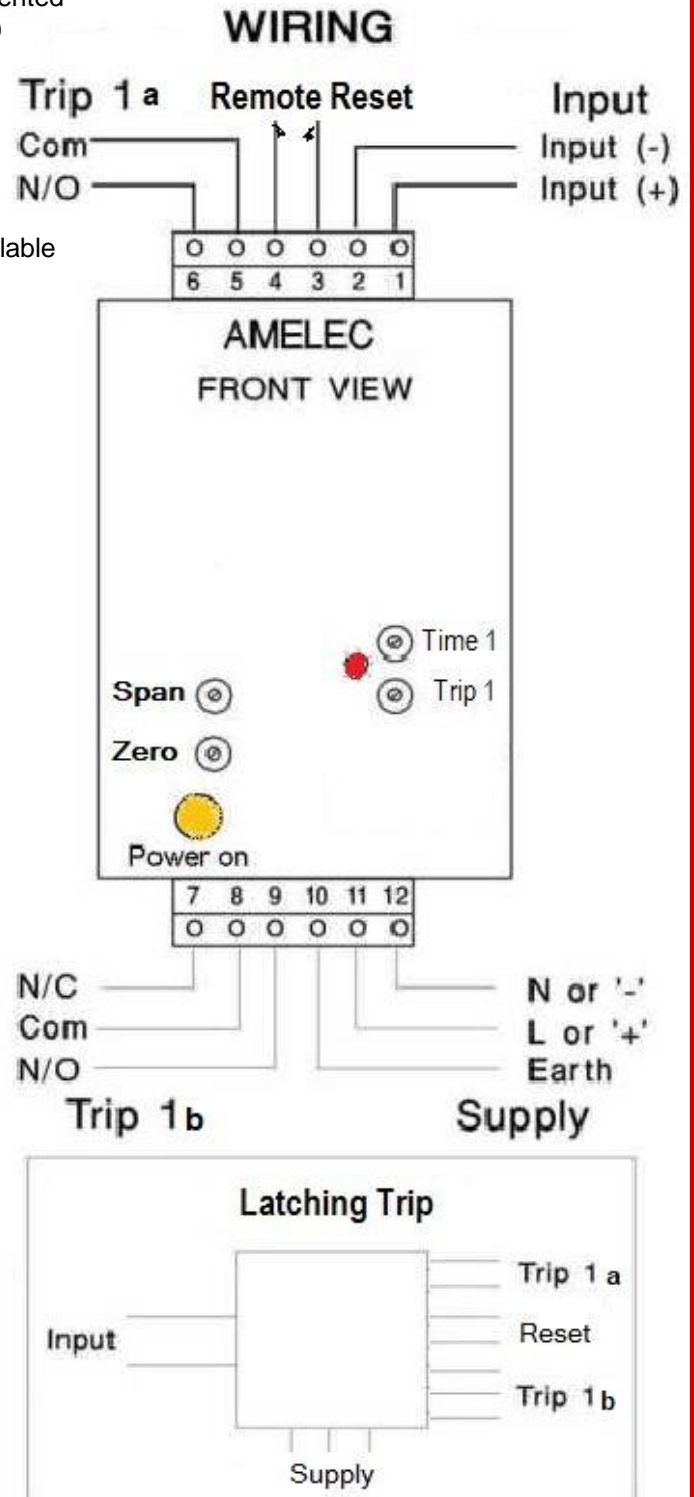
Storage Temperature: -40 to +70°C
Operating Ambient: -15 to +55°C
Relative Humidity: 5 – 95% RH (Non-Condensing)
EMC: 2014/30/EU, EN 61326-1:2013 (Generic Industrial levels)
RF Immunity: 20-3000MHz $\leq 10\text{V/m}$, 80-1000MHz $\leq 30\text{V/m}$,
(889MHz/1.75GHz $\leq 40\text{V/m}$)

Dimensions

50w x 75h x 182d mm

Mounting

Din Rail (TS35) **or** Surface by seismic Keyhole plate (50w x 130h)



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