

ADT131 Process Trip Amplifier with Single set point

- Suitable for SIL 1, SIL 2 or SIL 3 rated (EN 61508-2) Safety Instrumented System (SIS) loop applications
Supply voltage options: 20Vac $\pm 20\%$
115Vac $\pm 20\%$
230Vac $\pm 20\%$
24Vdc $\pm 10\%$
48Vdc $\pm 10\%$
- RFI Protection to EN 61000-4-3:2006/A2:2010 option 'K' available (20-3000MHz $\leq 10V/m$, 20-1000MHz $\leq 30V/m$)
- 24Vdc @22mA two-wire Input loop Excitation option 'M' available (Other two/three-wire loop Excitation spec's available on request)
- 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 (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)
(*Other special input signal ranges available on request - 'X' option)

Outputs

Trip output is a set of changeover contacts (D.P.C.O) rated at 250VAC, 2A, 100VA resistive.
Relays De-energise on Trip & Fail Safe on loss of power as std
Red LED indication of relay status; ON Energised / healthy, Extinguished in Trip / De-energised state.
Latching relay with local/remote Reset facility 'L' option available

Isolation

1000V RMS* Input/Contacts/Supply/Earth
*(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% available - 'V' option)
Input Open Circuit response: Downscale drive as std
(O/C Upscale drive available on request - 'X' option)

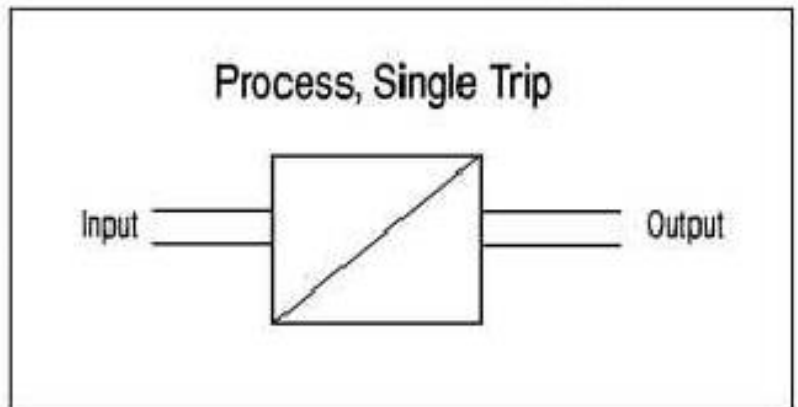
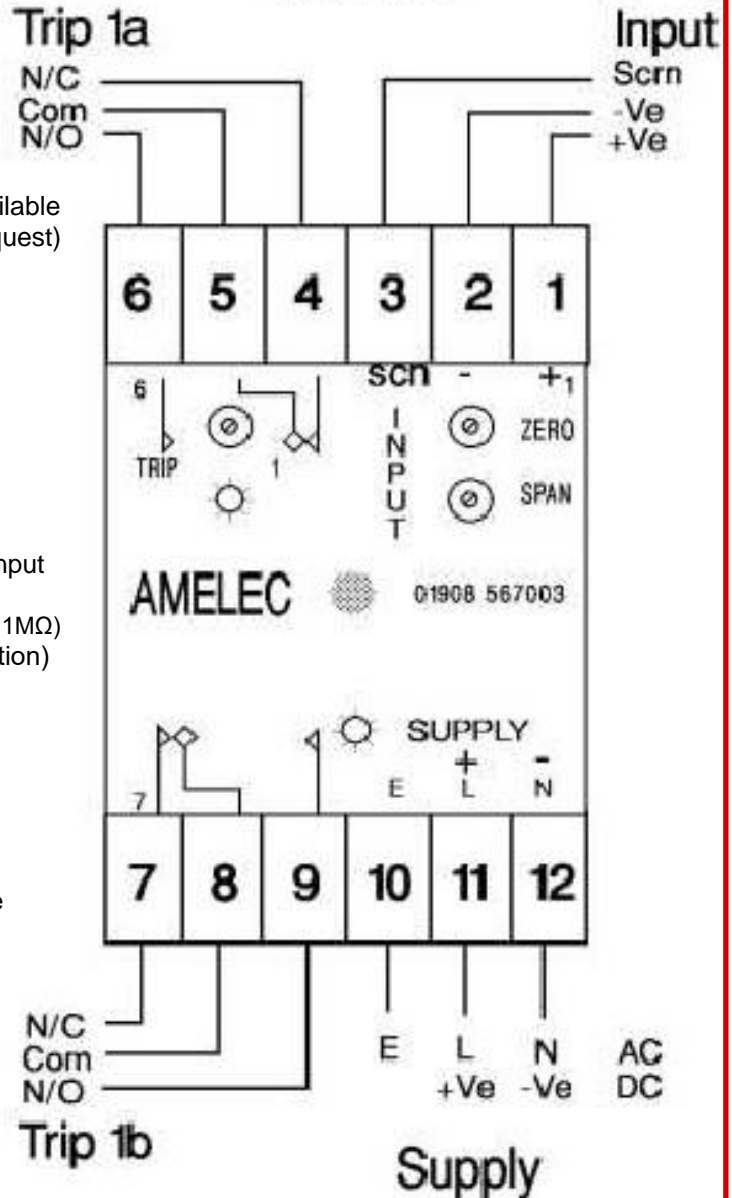
Environmental Conditions

Storage Temperature: -40°C to +70°C
Operating Ambient: -15°C 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
(*K' option enclosure = 182d mm)

WIRING



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