

ADT121K-4 wire RTD Temperature Trip Amplifier with single Trip set point

- Suitable for SIL 1 & SIL 2 rated (EN 61508-2) safety instrumented system (SIS) loop applications, as 1oo1 architecture (HFT:0)
- Non-Smart / Non-uProcessor based, Type A instrument
- Supply voltage options:
 - 115Vac $\pm 20\%$
 - 240Vac $\pm 20\%$
 - 24Vdc $\pm 10\%$
 - 48Vdc $\pm 10\%$
- RFI Protection to EN 61000-4-3:2006/A2:2010
- AMELEC Standard 10 year warranty

Technical Specifications

Input

From a 4 wire PT100 RTD, with a span greater than 20°C.
(2 / 3-wire RTD, PT130, PT500 or PT1000 input options available on request)

Relay Output

Output is 1 x N.O contact (or N.C on request) + 1 x set of single pole changeover (S.P.C.O) contacts, rated at 250VAC, 2A, 100VA (resistive).
Red LED indication of Relay status; On Energised/Off De-energised-Trip
Latching relay option with local or remote Reset available ('L' option)

Performance

Trip settability: $\pm 1\%$
Trip repeatability: $\pm 0.1\%$
Response time: <400mS
Input O/C response UPSCALE drive as standard
(O/C Downscale drive 'X' Option available)
Trip Hysteresis: 1% span std, wider or variable options available
Relay: De-energise on Trip & fail safe on loss of power as std
(Energise on Trip & non-fail safe options available on request)

Protection

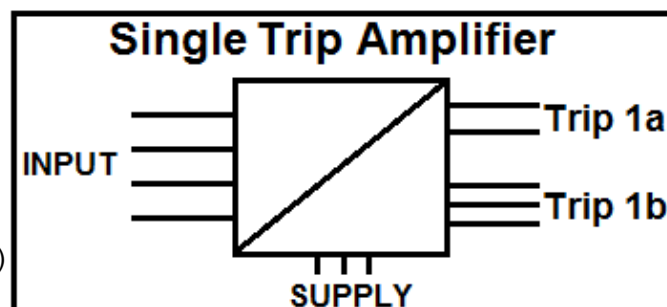
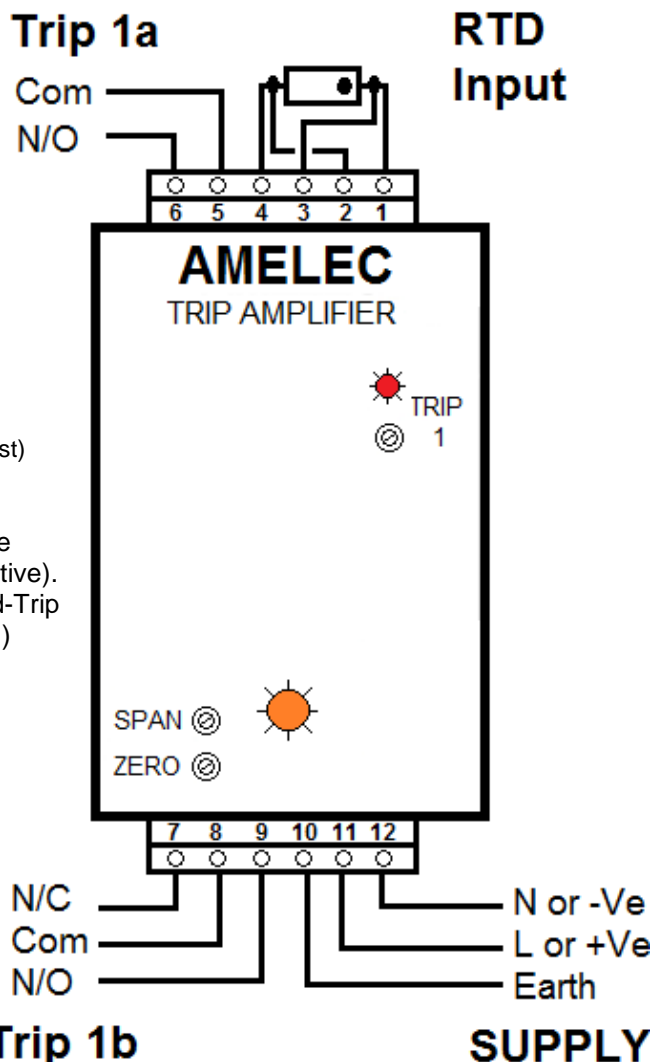
Isolation 500Vdc: Input/Output/Supply/Earth
Internal Fuse.
Input over range up to typically 300%.
RF Immunity: 20MHz-3GHz/5.25GHz $\leq 10\text{V/m}$,
(80MHz-1GHz/5.6GHz $\leq 30\text{V/m}$, 889MHz/1.75GHz $\leq 40\text{V/m}$)

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)

Mounting/Dimensions

Enclosure: 50w x 75h x 182d mm
Standard DIN Rail (TS35), or Surface by Seismic Keyhole plate
& Front of Panel mounting options available.
(rear Seismic mounting plate Dimension: 50w x 130h mm)



Customer Termination

Fixed screw terminals as standard, towards rear of top & bottom surfaces
(Plug-in terminals option available)

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