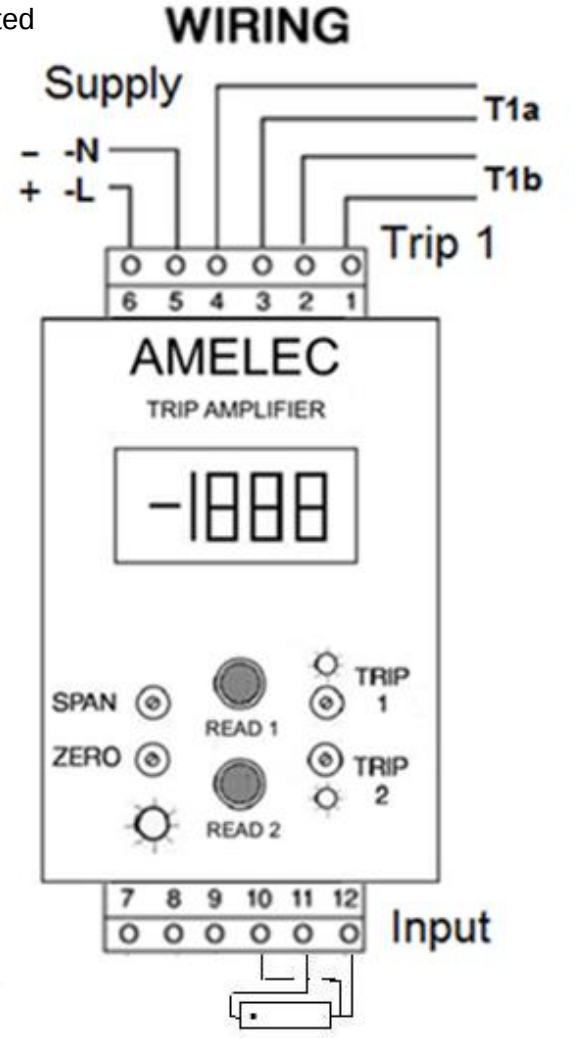
ADT121KX-DI-RIS-ET7274 RTD (2/3-wire) Trip Amplifier with Display

- 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, Type A instrument
- Supply voltage options: 115Vac ±20%
  240Vac ±20%
  24Vdc ±10%
  48Vdc ±10%
- RFI Protection to EN 61000-4-3:2006/A2:2010
- AMELEC Standard 10 year warranty



Technical Specifications

Input
Any 2 or 3 wire PT100 resistance temperature sensor. Third wire compensation to overcome lead resistance variation.
(PT500 / PT1000 & 4 wire input options also available)

Trip Relay Output
A pair of either N.O or N.C contacts (to be advised at time of orders), rated at 250VAC, 3A, 100VA resistive as standard.

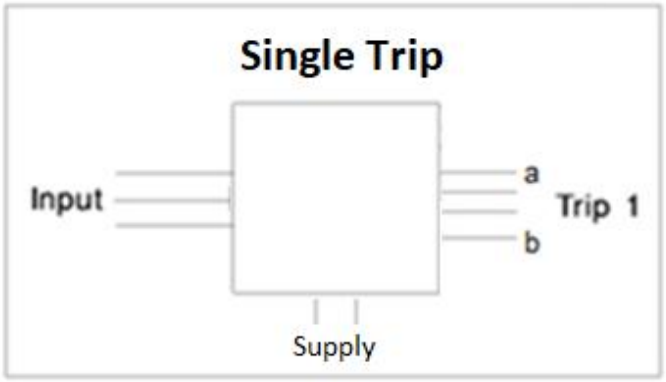
Red LED indication of Trip Relay status; Extinguished in energised/ healthy state, ON in De-energised/Alarm state.
Relays De-energise on Trip & Fail Safe on loss of power as standard

Digital Display
Continuous indication of the input on a 3½ digit Front Fascia LCD, scaled as either temperature or 0-100.0 (%) to suit applications.
Front fascia Read button shows the trip set point within the same range on the display, Calibration Range available: -1999 to +1999

Performance
Deadband: Fixed 1% std ('other' fixed Hysteresis ranges available)
Trip settability: ±0.1%
Trip repeatability: ±0.1%
Response time: <400mS
Isolation: 500Vdc Input/Contacts/Supply/Earth
Input O/C response: Upscale drive as standard
(O/C response Downscale drive available on request)
RF Immunity: 20MHz-3GHz/5.25GHz ≤10V/m,
80MHz-1GHz/5.6GHz ≤30V/m, 889MHz/1.75GHz ≤40V/m.

Environmental Conditions
Storage Temperature: -40 to 70°C
Operating Ambient: -15 to 55°C
Relative Humidity: 5 – 95% RH
EMC: 2014/30/EU, EN 61326-1:2013 (Generic Industrial levels)

Customer Termination
Fixed screw terminals as standard
(Plug-in terminals available on request)



Mounting/Dimensions
Enclosure Dimensions: 50w x 75h x 182d mm
Din Rail (TS35) mounting as Standard.
Seismic/Surface Keyhole plate (50wx130h mm) & Front of Panel options also available on request.

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