

ADT121KX-RIS-ET7274 RTD (3-wire) Trip Amplifier

- Suitable for SIL 1, SIL 2 or SIL 3 rated (EN 61508-2) safety instrumented system (SIS) loop applications
- Supply voltage options:
 - 115Vac $\pm 20\%$
 - 230Vac $\pm 20\%$
 - 24Vdc $\pm 10\%$
 - 48Vdc $\pm 10\%$
- RFI Protection to EN 61000-4-3:2006/A2:2010
- LCD/LED Digital Display options available ('DI' option)
- 24Vdc @ 22mA two wire Input loop Excitation option available ('E' option)
- Non-Smart/Non-uProcessor based, Type 'A' instrument
- 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)

Outputs

A pair of either N.O or N.C contacts, (TBA at time of orders), rated at 250VAC, 3A, 100VA resistive as standard

Relay Status Indicators

Red LED indicator; Extinguished in Energised/healthy state,
ON in De-energised/Tripped state

Deadband

1% Span as standard, with other Fixed Hysteresis band or Variable
1-20% span hysteresis options available on request)

Controls

Zero / Span: 15-turn blindset pots, used to set internal 0.1 – 2.1Vdc reference for 0 -100% input range. Trip Set Point: 15-turn blindset pot, used to set the Trip point anywhere over the 0 to 100% input range.
(Front fascia Test Point option available if required)

Protection

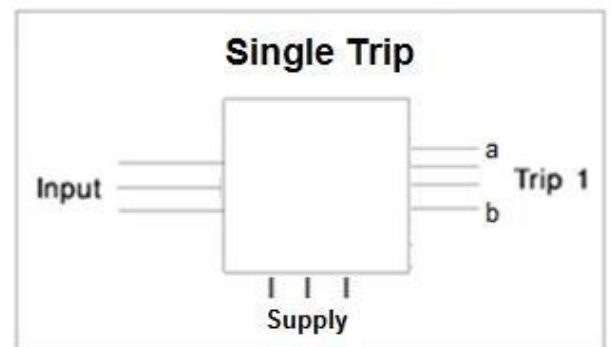
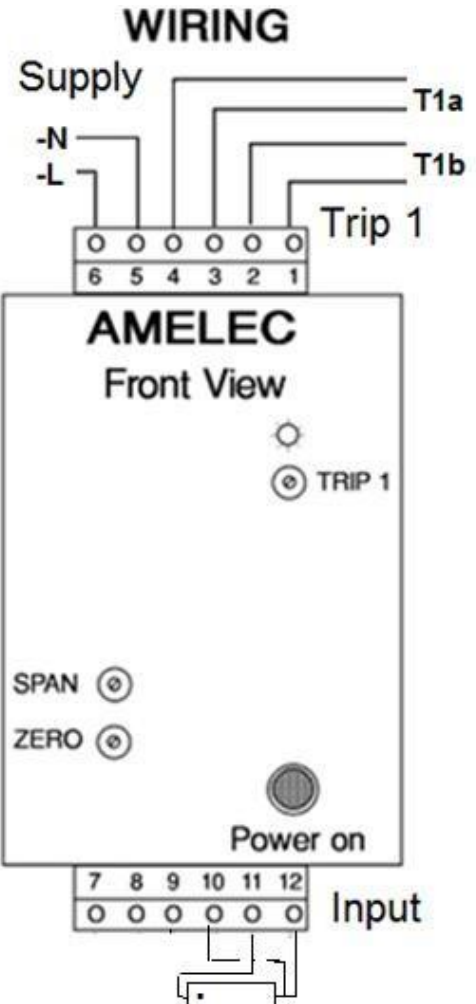
Isolation: 500Vdc Input/Contacts/Supply/Earth
RF Immunity: 20MHz-3GHz/5.25GHz $\leq 10\text{V/m}$,
(80MHz-1GHz/5.6GHz $\leq 30\text{V/m}$, 889MHz/1.75GHz $\leq 40\text{V/m}$)
Internal Fuse

Performance

Trip settability: $\pm 1\%$
Trip repeatability: $\pm 0.1\%$
Response time: $< 400\text{ms}$
Input Open Circuit response: Upscale drive as standard
(O/C Downscale drive available on request)

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)



Dimensions/Mounting Options

Dimensions: 50w x 75h x 182d mm
Mounting: Din Rail (TS35) as standard.
Surface by Seismic Keyhole plate option available
on request (mounting plate Dims: 50w x 130h mm)

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