

## ADT121 RTD Trip Amplifier with single set point

- Suitable for SIL 1 & SIL 2 rated (EN 61508) safety instrumented system (SIS) loop applications (HFT:0)
- Supply Voltages: 20Vac  $\pm 20\%$   
115Vac  $\pm 20\%$   
240Vac  $\pm 20\%$   
24Vdc  $\pm 10\%$   
48Vdc  $\pm 10\%$
- RFI Protection to EN 61000-4-3:2006/A2:2010 available ('K' option)
- Front fascia Digital Display available ('DI' Option)
- Non-Smart/Non-uProcessor, Type 'A' instrument
- AMELEC Standard 10 year warranty

### Technical Specifications

#### Input

Any 2 or 3 Wire PT100 resistance temperature sensor. Third wire compensation is standard to overcome any lead resistance variation. (PT130 / PT500 / PT1000 & 4 wire input options available)

#### Output

A set of double pole changeover contacts (DPCO), rated at 250VAC, 3A, 100VA (resistive) as std. Latching relay 'L' option available with local or Remote Reset. Red LED indication of Relay status: ON Energised/ healthy, Extinguished in Trip/ De-energised state as std. Fail Safe Relay: De-energise on Trip & Loss of Power as std

#### Isolation

1000V RMS\* Input/Contacts/Supply/Earth  
\*(500Vdc if RFI option 'K' is specified)

#### Performance

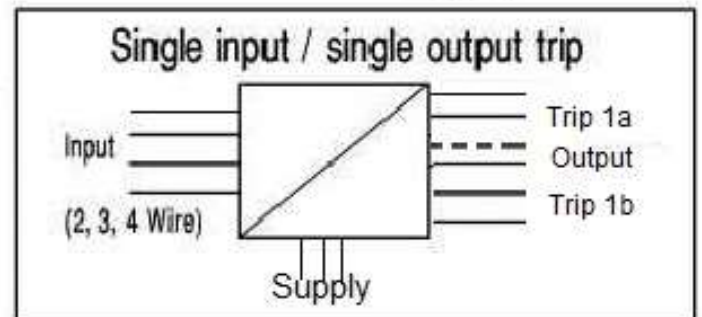
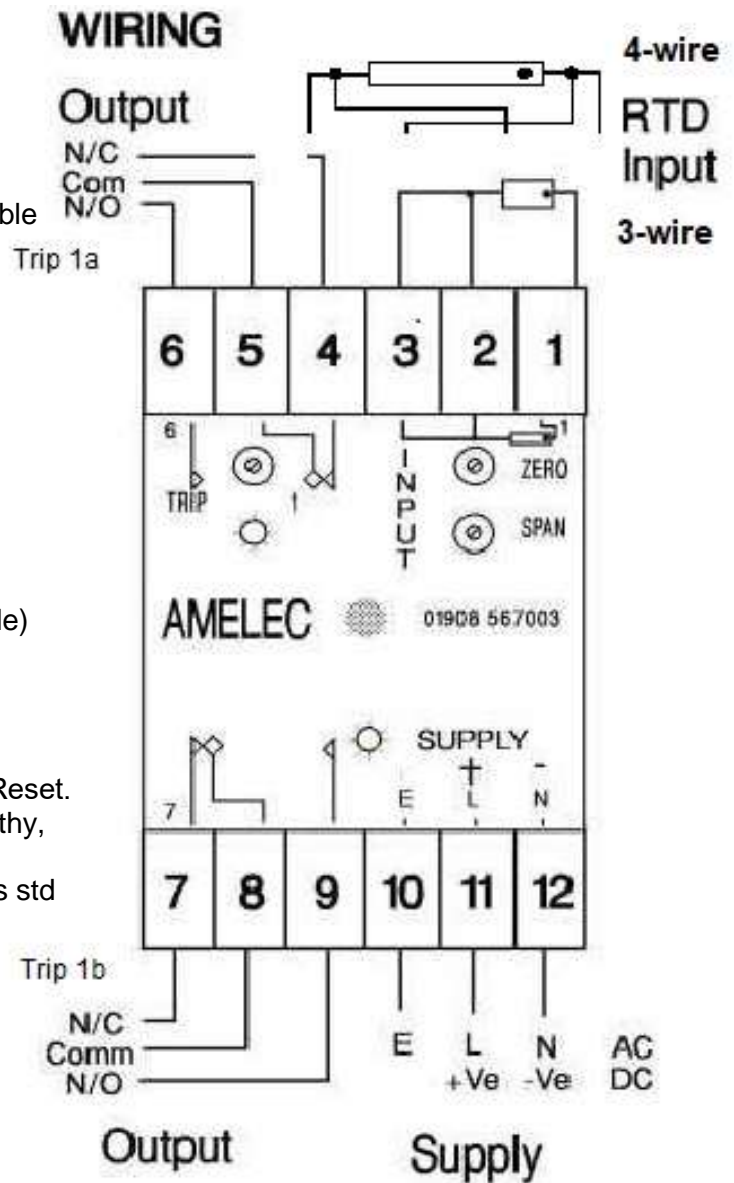
Trip settability:  $\pm 1\%$   
Trip repeatability:  $\pm 0.1\%$   
Response time:  $< 400\text{ms}$   
Input O/C response: Upscale drive as std (O/C response Downscale drive option 'X' available)  
Deadband: 1% Span std.  
(Variable hysteresis 0.5%-20% option 'V' available)

#### Environmental Conditions

Storage Temperature:  $-40$  to  $+70^\circ\text{C}$   
Operating Ambient:  $-15$  to  $+55^\circ\text{C}$   
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

50w x 75h x 110d mm ('K' option enclosure = 182d mm)



#### Mounting / Customer Termination

DIN Rail (TS35) or Surface (by corner fixing holes)  
Fixed screw terminals as standard.

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