

AST121 Temperature RTD Trip Amplifier with single 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: 24Vdc ±10%
48Vdc ±10%
- AMELEC Standard 10 year warranty



Technical Specifications

Input

Any 2 or 3 Wire PT100 resistance temperature sensor as standard.
Third wire compensation as standard to overcome any lead resistance variation.

(PT130 / PT500 / PT1000 & 4 wire input options available)

Relay Outputs

Trip output is two sets of changeover contacts (D.P.C.O), rated at 250VAC, 2A, 100VA resistive.
Fail Safe Relay, De-energise on Trip & on Loss of Power as standard.

High (rising) or Low (falling) Trip action may be specified.
Red LED indication of relay status; LED **ON** when Energised/ healthy, **Extinguished** in Trip/ De-energised state as standard.

Isolation

1000V RMS Input/Contacts-Contacts/Supply

Performance

Trip settability: ±1%
Trip repeatability: ±0.1%
Response time: <300mS (0-100% input step change)
Deadband: Fixed *Nom* 1% Span std (other Fixed Hysteresis ranges available)
Input Open Circuit response: Upscale drive as standard
Consumption: <3VA

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 (Controlled EM)
RoHS: 2011/65/EU

Dimensions

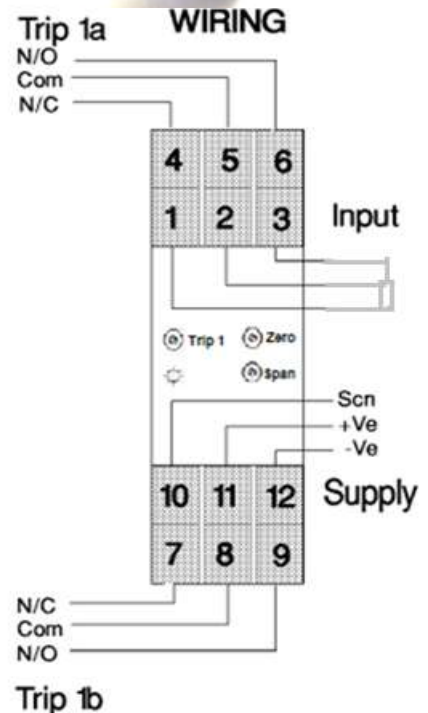
22.5w x 75h x 110d mm

Mounting

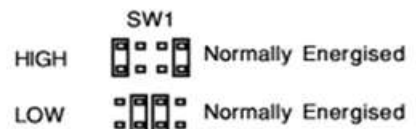
Din Rail (TS35)

Customer Termination

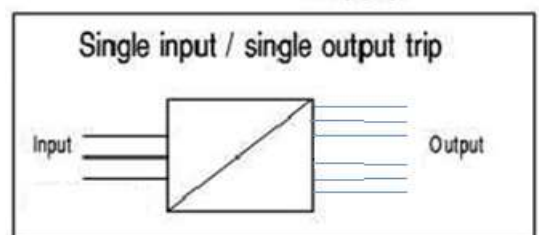
Fixed screw terminals



Trip Mode - Soldered Link position



Supply



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