

AST111 Thermocouple Trip Amplifier with single set point

- Suitable for SIL 1 & SIL 2 rated (EN 61508-2) Safety Instrumented System (SIS) Loop applications, as 1001 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

mV signal developed from any thermocouple type; J, K, N, R, S, T, with minimum 4mV span (Automatic cold junction compensation)

Relay Outputs

Trip output is two sets of changeover contacts (D.P.C.O), rated at 250VAC, 2A, 100VA resistive.
Fail Safe Relays, 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: <400mS (0-100% input step change)

Deadband: Fixed 1% Span as std (other Fixed Hysteresis ranges available)

Input Open Circuit response: Upscale drive as standard (O/C Downscale drive may be specified if preferred)

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)

Dimensions

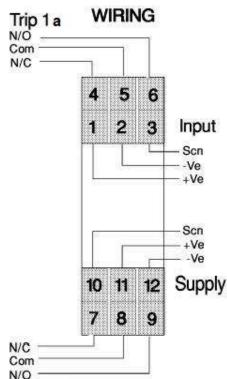
22.5w x 75h x 110d mm

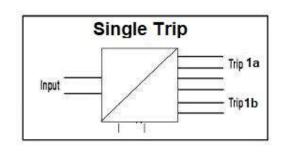
Mounting

Din Rail (TS35)

Customer Termination

Fixed screw terminals





Trip 1 b

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