

ADT112 Thermocouple Trip Amplifier

- Suitable for SIL 1, SIL 2 & SIL 3 rated (IEC61508-2) safety system loop applications
- Supply Voltages: 20Vac $\pm 20\%$
115Vac $\pm 20\%$
240Vac $\pm 20\%$
24Vdc $\pm 2.5V$
48Vdc $\pm 5V$
- RFI Protection to IEC61000-4-3:2006/A2:2010 available
- Front fascia Digital Display available ('DI' option)
- Time delay into Trip available, fixed or variable ('T' option)
- 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

Output

Each trip output has a changeover contact, rated at 250VAC, 2A, 100VA (resistive)

Latching Relay with local or remote reset available ('L' option)

Isolation

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

Performance

Trip settability: $\pm 1\%$
 Trip repeatability: $\pm 0.1\%$
 Response time: $< 400\text{ms}$
 Deadband: 1% Span std.
 (Variable hysteresis 0.5%-20% available - 'V' option)

Environmental Conditions

Storage Temperature: -40 to 70°C
 Operating Ambient: -15 to 55°C
 Relative Humidity: 5 – 95% RH

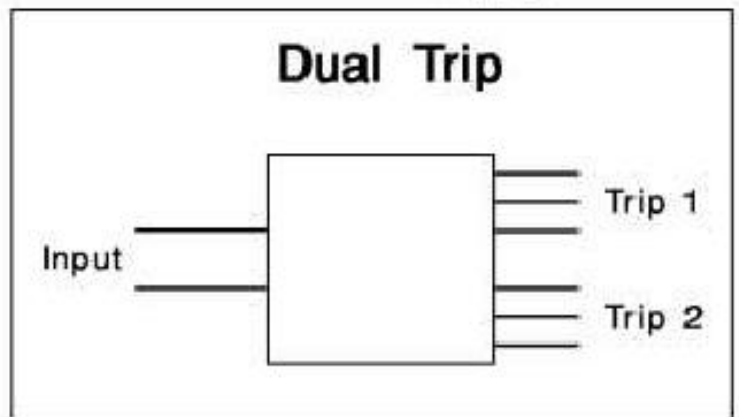
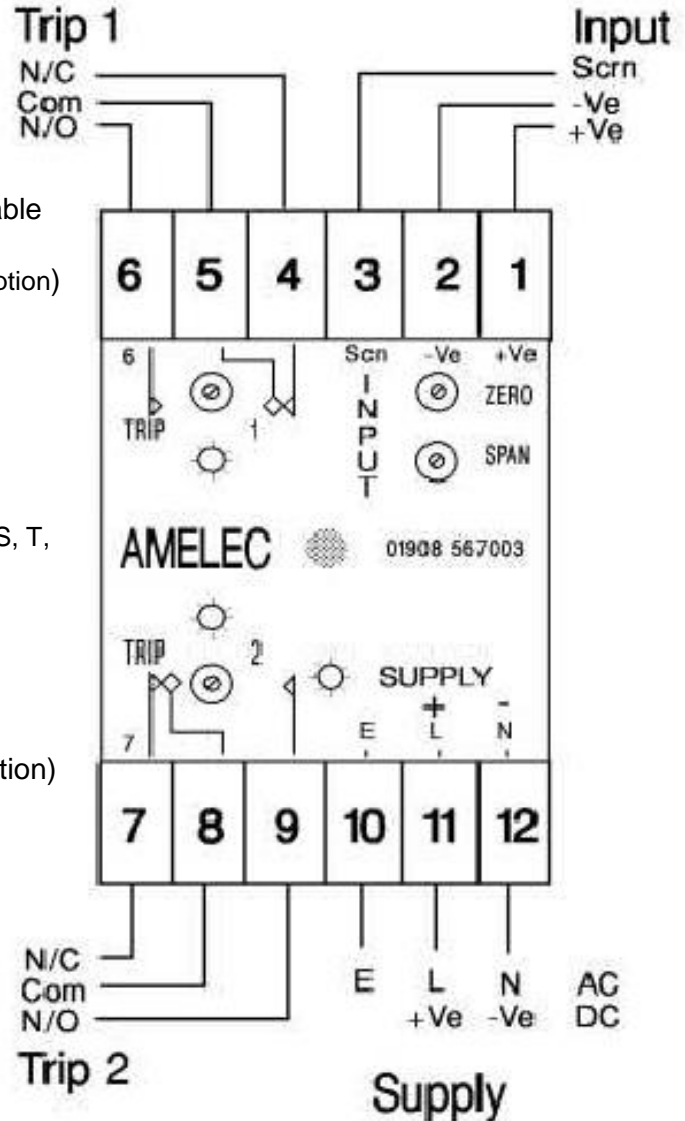
Dimensions

50w x 75h x 110d (mm)

Mounting

Din Rail (TS35) **or** Surface by corner fixing holes as standard

WIRING



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