

ADT118 Thermocouple Quad Trip Amplifier

- Suitable for SIL 1 & SIL 2 rated (EN61508-2) safety instrumented system (SIS) loop applications (HFT:0)
- Supply Voltage options: 20Vac $\pm 20\%$
115Vac $\pm 20\%$
240Vac $\pm 20\%$
24Vdc $\pm 10\%$
48Vdc $\pm 10\%$
- Front fascia Digital Display available ('DI Option)
- AMELEC Standard 10 year warranty

Performance

Trip settability: $\pm 1\%$
 Trip repeatability: $\pm 0.1\%$
 Response time: $< 400\text{ms}$
 Input O/C response: Up or Downscale drive
 (to be specified on orders)

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)

Technical Specifications

Input

mV signal developed from any Thermocouple type; J,K,N,R,S or T, with a minimum 4mV span as std. Automatic CJ compensation.
 ('Other' special input signal ranges available on request – 'X' option)

Relay Outputs

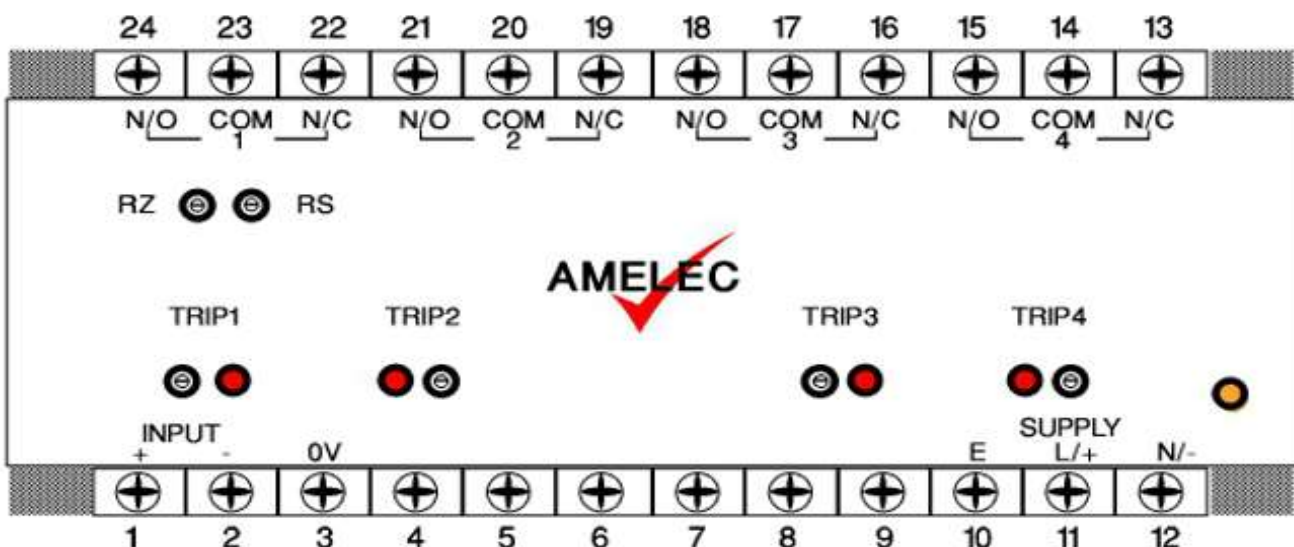
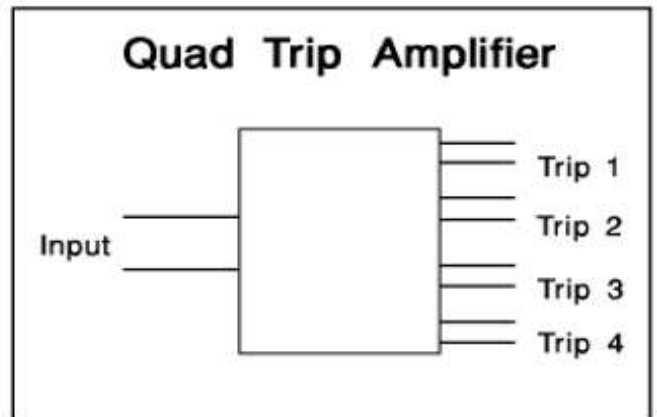
Any combinations of High or Low Trips may be specified. Each of the four trip outputs is a set of changeover contacts, rated at 250VAC, 2A, 100VA (resistive). Relays De-energise on Trip & Fail Safe on loss of power as std. Deadband:: Fixed 1% span hysteresis as standard, Variable 1-20% span hysteresis ('V' option) available Red LED indication of each Relay status; ON Energised, Extinguished in Trip/De-energised state.

Isolation

1000V RMS. Input/Contacts-Contacts/Supply/Earth

Mounting / Dimensions

Din Rail (TS35)
 Enclosure: 152w x 81h x 137d mm



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