

ADT111CK Thermocouple 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)
- Supply voltage options:

115Vac	±20%
240Vac	±20%
24Vdc	±10%
48Vdc	±10%
- Non-Smart/Non-uProcessor based, Type A instrument
- RFI Protection to EN 61000-4-3:2006/A2:2010
- Front fascia LCD or LED Digital Display options available ('DI' option)
- Fixed or Variable Time Delay options into Trip available ('T' option)
- AMELEC Standard 10 year warranty

Technical Specifications

Input

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

Deadband

Nom. 1% of Span hysteresis as standard
(Adjustable hysteresis 0.5-20% span available – 'V' option)

Relay Outputs

Trip output is a set of DPCO contacts, rated at 250VAC, 2A, 100VA resistive as standard. (Other ratings available – 'X' option)

Latching Relay with local or remote Reset available – 'L' option

Protection

Internal Fuse: 250mA as standard
Isolation: 500Vdc Input/Contacts/Supply/Earth
RF Immunity: 20MHz-3GHz/5.25GHz ≤10V/m,
(80MHz-1GHz/5.6GHz ≤30V/m, 889MHz/1.75GHz ≤40V/m)

Performance

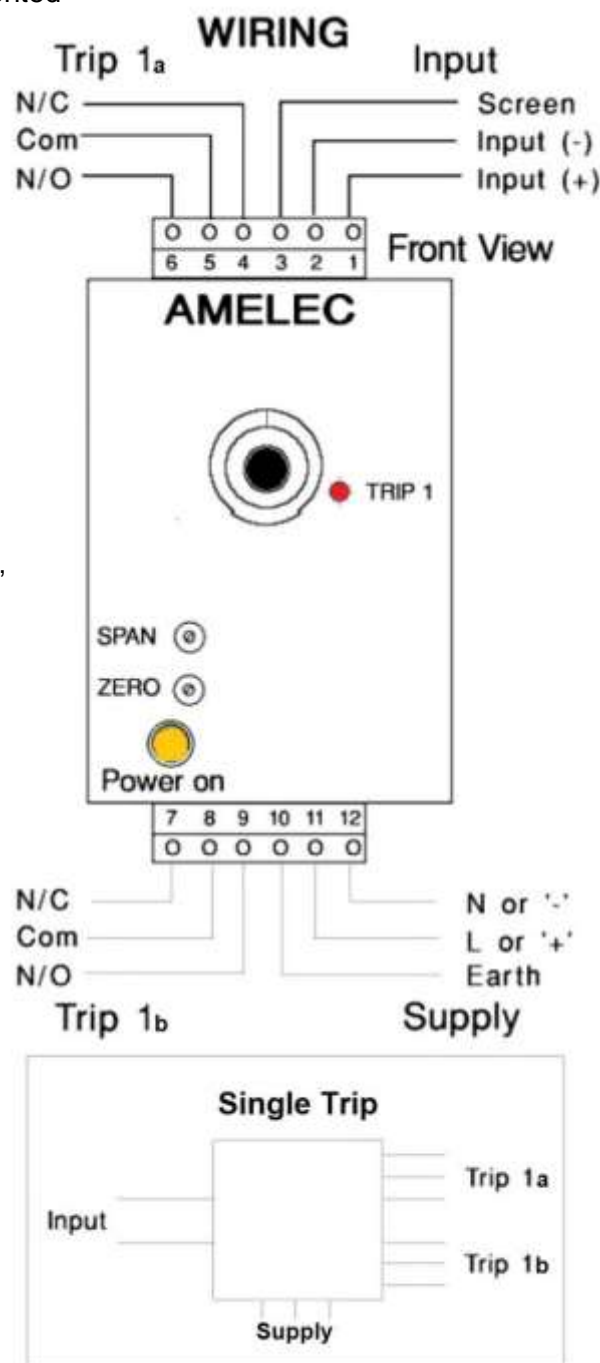
Trip settability: ±0.1% (Ten-Turn Calibrated Dial on front fascia)
Trip repeatability: ±0.1%
Response time: ≤200mS (0-100% step change)
Consumption: ≤3VA
Input Open Circuit response: Upscale drive as standard
(O/C Downscale drive option may be specified if preferred)

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 (Generic Industrial levels)

Dimensions

Standard enclosure: 50w x 75h x 182d mm
with Fixed Screw Terminals towards rear of enclosure
(Plug-in screw Terminal Blocks available if preferred – 'X' option)



Mounting Options

Heavy duty Din Rail (TS35) as standard

Surface by Seismic keyhole plate & Front of Panel mounting options also available if preferred.

(Surface mounting plate Dims: 50w x 130h mm)

(Front of Panel Bezel Dims: 57w x 96h mm,
Panel Cut Out Dims: 51w x 76h mm)

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