

ADT115K mV input 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 $\pm 20\%$
 - 240Vac $\pm 20\%$
 - 24Vdc $\pm 10\%$
 - 48Vdc $\pm 10\%$
- 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)
- AMELEC Standard 10 year warranty

Technical Specifications

Input

Any mV signal range up to 400mV may be specified, with a minimum calibration span of 4mV.
Typical examples; 0-5mV, 0-10mV, 40-200mV, 0-50mV, 0-100mV dc

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 std. (Other ratings available – 'X' option)

Latching Relay with local or remote Reset available – 'L' option
Fixed or Variable Time Delay into Trip options available – 'T' option

Protection

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

Performance

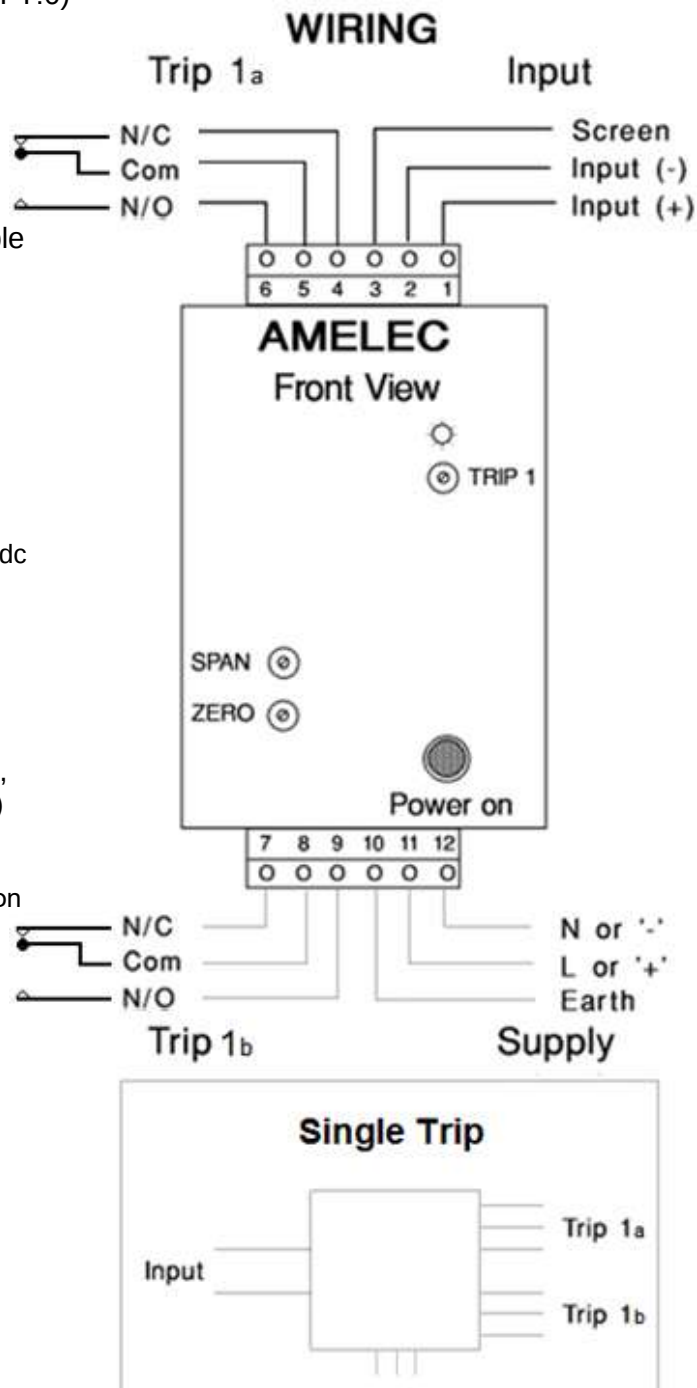
Trip settability: $\pm 1\%$
Trip repeatability: $\pm 0.1\%$
Response time: $\leq 200\text{ms}$ (0-100% input step change)
Consumption: $\leq 3\text{VA}$
Input Open Circuit response: Upscale drive as standard
(O/C Downscale drive response available on request if preferred)

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 (Generic Industrial levels)

Dimensions

Standard enclosure: 50w x 75h x 182d (mm)



Mounting Options

Heavy duty Din Rail (TS35) as standard

Surface by Seismic keyhole plate & Front of Panel mounting options also available on request.

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

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