

ADT139K Process Deviation Trip Amplifier

- Suitable for SIL 1, SIL 2 & SIL 3 rated (EN 61508) safety instrumented system (SIS) loop applications
- Non Smart / Non-uProcessor based, Type A instrument
- Supply voltage options:
 - 115Vac $\pm 20\%$
 - 240Vac $\pm 20\%$
 - 24Vdc $\pm 10\%$
 - 48Vdc $\pm 10\%$
- LCD/LED Digital Display options available ('DI' option)
- RFI Protection to EN 61000-4-3:2006/A2:2010
- AMELEC Standard 10 year warranty

Technical Specifications

Process Inputs

Any current or voltage (DC) drive that can be terminated in a PI network to produce a 400mV span.
Inputs share a common zero reference, so should be isolated from each other at source.

Relay Outputs

Each TRIP output is a set of changeover relay contacts, rated at 250VAC, 2A, 100VA resistive as standard.

TRIP 1 = input A > input B TRIP 2 = input B > input A

Protection

Isolation: 500Vdc Input/Contacts/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: $\pm 0.1\%$
Trip deadband: 1% of span as standard
Response time: $< 100\text{ms}$ (0-100% step change)

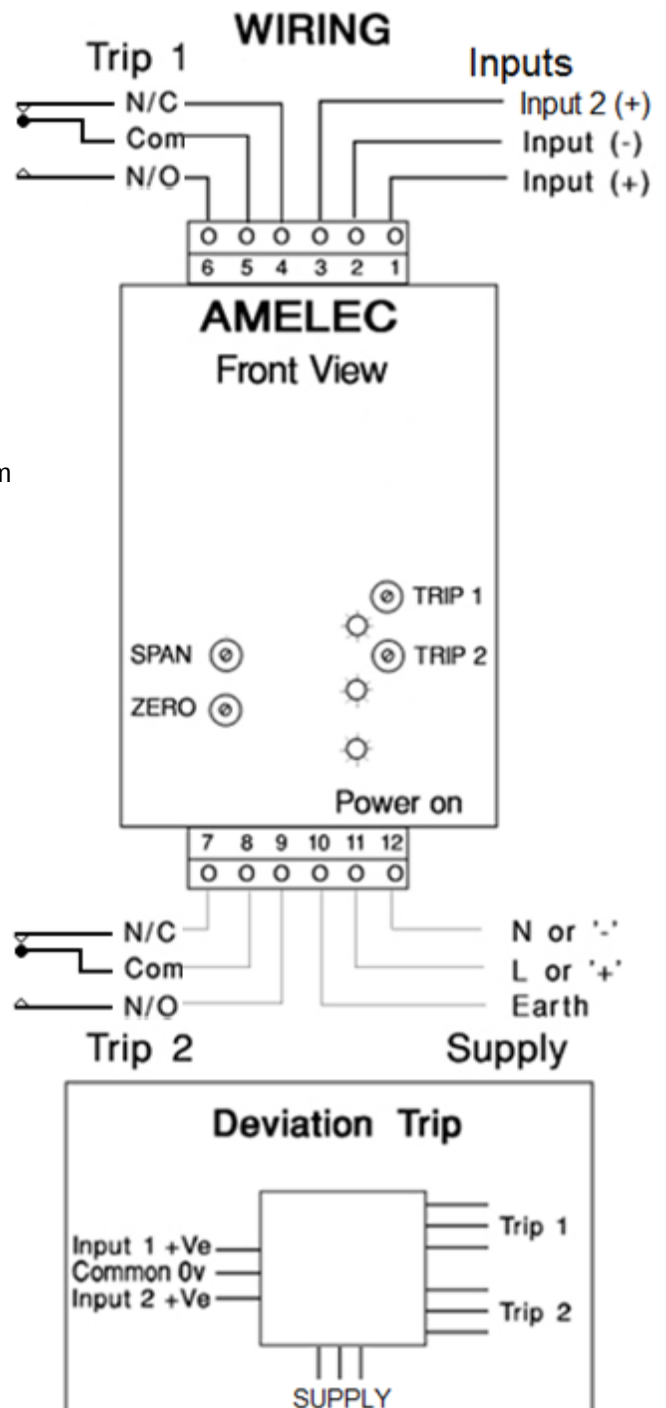
Fixed or Variable Time Delay into Trip is available ('T' option)

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)

Mounting/Dimensions

Heavy duty Din Rail (TS35) mounting as standard
Dimensions: 50w x 75h x 182d mm.
Surface mounting by seismic Keyhole plate option available,
Rear mounting plate Dimensions: 50w x 130h mm)



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