

ADT152K AC Voltage / Current Signal Trip Amplifier

- Suitable for SIL 1, SIL 2 or SIL 3 rated (EN 61508-2) safety instrumented system (SIS) loop applications
- 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
- LCD/LED Digital Display options available ('DI' option)
- AMELEC Standard 10 year warranty

Technical Specifications

Input

Any AC Voltage or Current signal, AC Voltage ranges up to 300Vac, with a minimum 50mV span
Typical Voltage Input ranges: 0-20V, 0-150V, 0-300V AC
Intermediate ranges available at no extra cost
(Frequency range 10-400Hz std, up to 5000Hz available)

Outputs

Each trip output is a set of SPCO contacts, rated at 250VAC, 2A, 100VA resistive.

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

Deadband

Standard 1% Span, other fixed Bands available on request.
(Adjustable 0.5-20% hysteresis available – 'V' option)

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 $\leq 40\text{V/m}$)

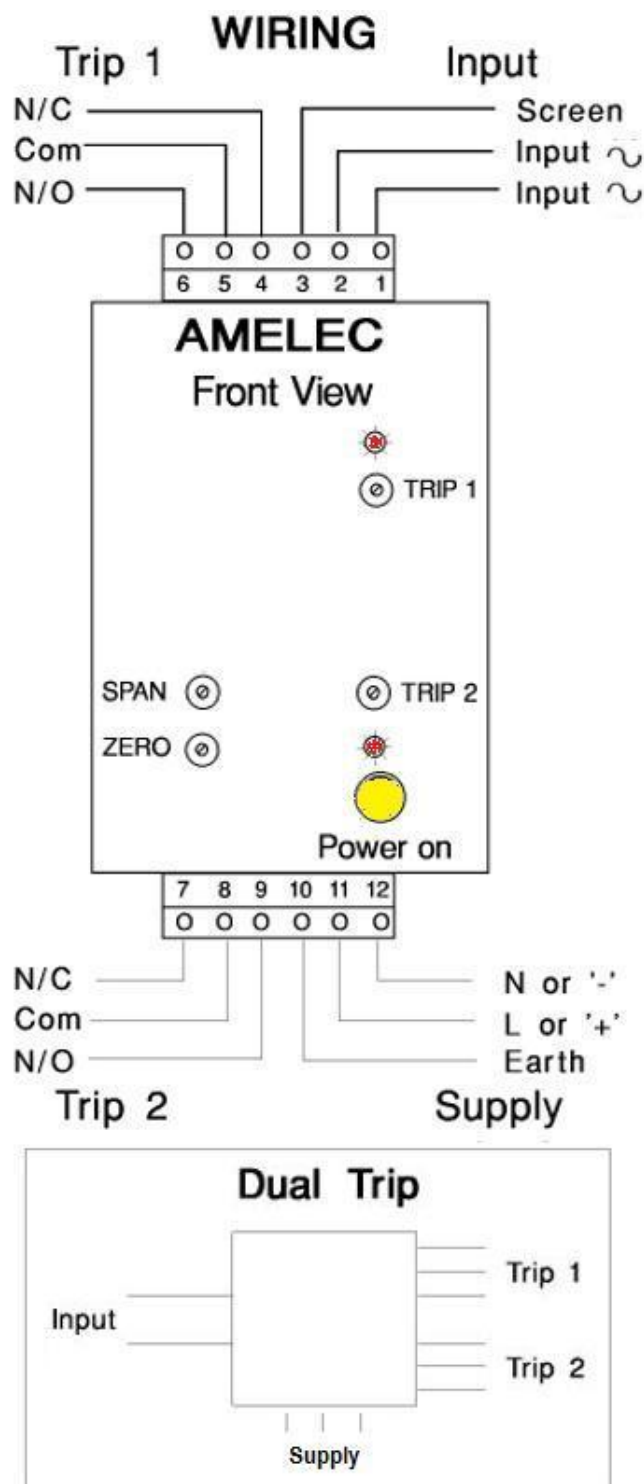
Performance

Trip settability: $\pm 1\%$
Trip repeatability: $\pm 0.1\%$
Response time: $< 200\text{ms}$
Input Open Circuit response: Downscale drive as standard
(O/C Upscale drive available – 'X' option)

Fixed/Variable Time Delay into Trip available – T option

Environmental Conditions

Storage Temperature: -40 to 70°C
Operating Ambient: -15 to 55°C
Relative Humidity: 5 – 95% RH
EMC: 2014/30/EU, EN 61326-1:2013 (*Generic Industrial levels*)



Mounting / Dimensions

Enclosure: 50w x 75h x 182d mm
Heavy duty Din Rail mounting (TS35) as std.

Surface/Seismic Keyhole plate option available
(mounting plate Dimension: 50w x 130h mm)

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