

ADT371K Rate of Change Trip Amplifier

- Suitable for SIL 1, SIL 2 or SIL 3 rated (IEC61508) safety system loop applications
- Supply voltage options: 115Vac $\pm 20\%$
240Vac $\pm 20\%$
24Vdc $\pm 10\%$
48Vdc $\pm 10\%$
- RFI Protection to IEC61000-4-3:2006/A2:2010
- Front fascia LCD or LED digital Display available (DI option)
- 24Vdc @ 22mA two wire Input loop Excitation available (M option)
- AMELEC Standard 10 year warranty

Technical Specifications

Input

Any current or voltage (DC) drive that can be terminated in a PI network to produce a 400mV span.
Typical examples; 0-1mA, 0-10mA, 4-20mA, 0-5V, 0-10V, 0-100Vdc

Rate of Change Trip Function

In a typical high trip application, the relay will change state for a rapid rising input signal. The Set point is adjustable over a rate of change range to suit the application.

Relay output

D.P.C.O contacts, rated 250Vac 2A 100VA resistive
The unit is monitoring for rapid change of the input signal

Front fascia Red LED to indicate relay status, ON when relay is energised healthy, OFF when De-energised in over acceleration
Alarm status
(Latching Relay with local or remote reset available – L option)

Deadband

Standard 1% Span
(Adjustable hysteresis 0.5-20% span available - V option)

Protection

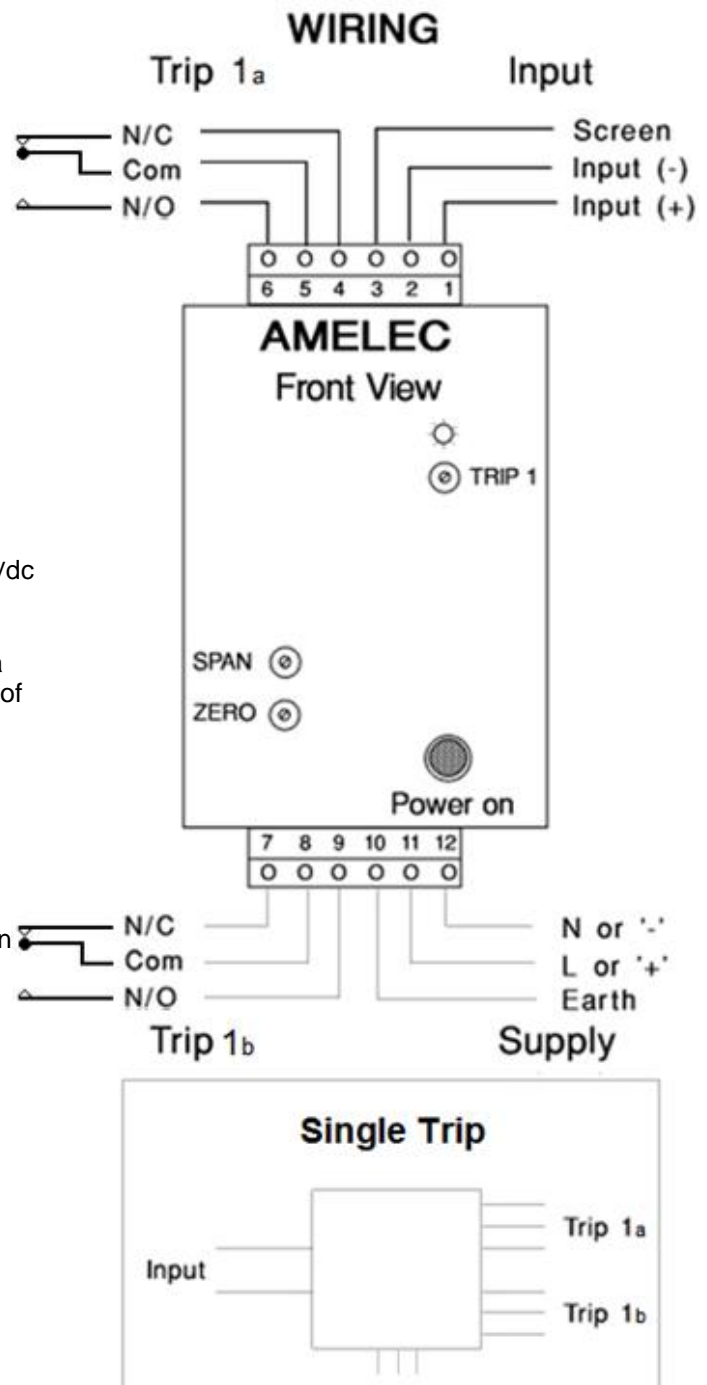
Isolation: 500V dc Input/Contacts/Supply/Earth
RF Immunity: 20MHz-3GHz/5.25GHz $\leq 10\text{V/m}$,
(80MHz-1GHz/5.6GHz $\leq 30\text{V/m}$, 889MHz-1.75GHz $\leq 40\text{V/m}$)

Performance

Trip settability: $\pm 1\%$
Trip repeatability: $\pm 0.1\%$
Response time: $< 100\text{ms}$
Input open circuit response: Downscale drive as standard
(O/C Upscale drive response available – X option)

Environmental Conditions

Storage Temperature: -40 to 70°C
Operating Ambient: -15 to 55°C
Relative Humidity: 5 – 95% RH



Dimensions & Mounting Options

Enclosure: 50w x 75h x 182d (mm)
Mounting: Din Rail (TS35) as standard

Surface by Seismic keyhole plate & Front of Panel mounting options available on request.
(Surface mounting plate Dims: 50w x 130h mm)

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