

ADT135K Trip Amplifier with Wide Hysteresis On/Off Control

- Suitable for SIL 1, SIL 2 & SIL 3 rated (EN61508-2) safety system loops
- Suitable for process input Pump / Level control applications
- Supply voltage options: 115Vac $\pm 20\%$
240Vac $\pm 20\%$
24Vdc $\pm 10\%$
48Vdc $\pm 10\%$
- Digital Indication of input & trip set points available (DI option)
- Non-Smart / Non-uProcessor based, Type A instrument
- RFI Protection to EN 61000-4-3:2006/A2:2010.
- 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.
Typically: 4-20mA (impedance 20 Ω) or 0-10Vdc (impedance 1M Ω)

O/C response: Downscale as std (Upscale drive 'X' option available)

Trip Relay Output

In a typical high trip application, the trip relay will change state when the input signal exceeds the level set on TRIP 1 and return to normal when the input signal falls below the level set on TRIP 2.
Relay: S.P.C.O, rated 250VAC 2A 100VA (resistive)

Digital Display Option 'DI' available

For Continuous Indication of the input on a 3½ digit LCD front fascia Display, scaled as either 0-100.0 % or in Engineering units scaled to suit the application.
Read buttons allow the trip set points to be viewed & adjusted within the same scale range on the display.

Isolation

500Vdc Input/Contacts/Supply/Earth

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

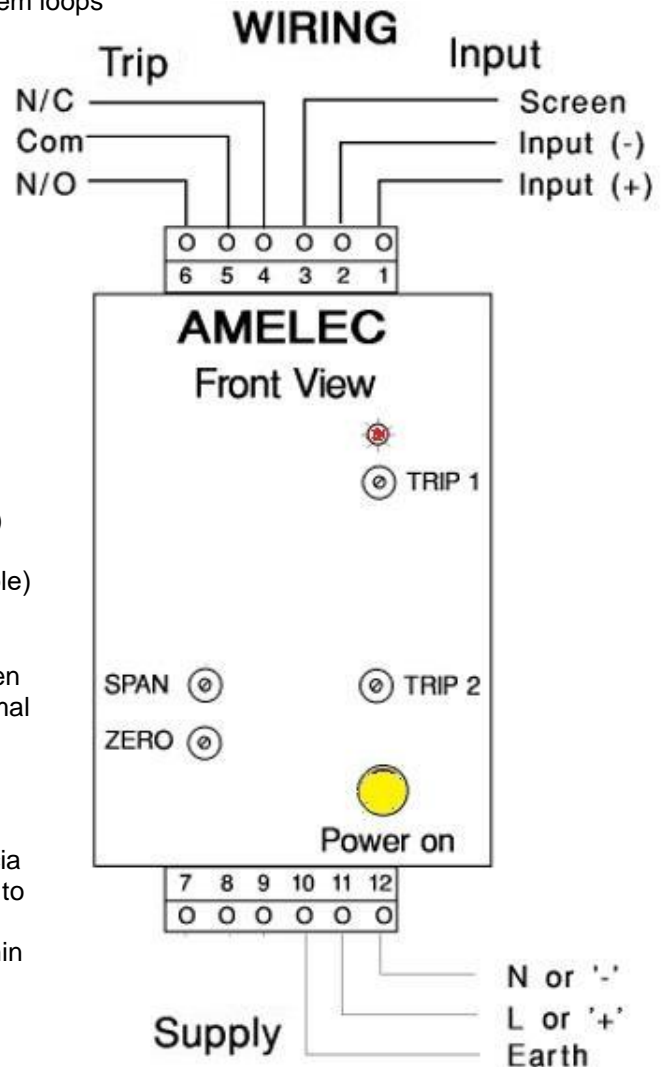
Din Rail (TS35) as standard, **or** Surface by seismic Keyhole plate & Front of Panel mounting options are also available on request.

Dimensions

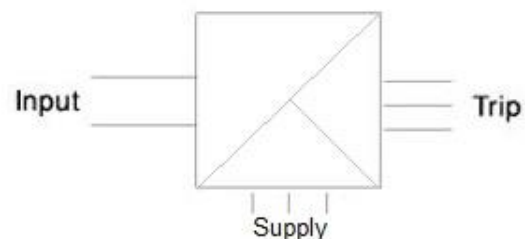
Std K option enclosure: 50w x 75h x 182d mm
(optional Keyhole rear mounting plate Dims = 50w x 130h mm)

Customer Termination

Fixed screw terminals as standard
(Plug-in terminal blocks are available on request)



Single Latching Relay output, with 2 x Set Points (On/Off Control)



'K' option RFI protection provides RF immunity to:

20MHz-3GHz / 5.25GHz @ $\leq 10\text{V/m}$,
80MHz-1GHz / 5.6GHz @ $\leq 30\text{V/m}$,
889MHz / 1.75GHz @ $\leq 40\text{V/m}$.

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