

ADT151 AC Current / Voltage Input Trip Amplifier

- Suitable for SIL 1 & SIL 2 rated (EN 61508) Safety Instrumented System (SIS) loop applications, as 1oo1 architecture (HFT:0)
- Supply voltage options:
 - 115Vac ±20%
 - 230Vac ±20%
 - 24Vdc ±10%
 - 48Vdc ±10%
- Non-smart / Non-uProcessor based, Type A instrument
- RFI Protection to EN 61000-4-3:2006/A2:2010 available ('K' option)
- AMELEC Standard 10 year warranty

Technical Specifications

Input

Any Sinusoidal AC Voltage or Current signal. Voltage ranges from 50mV up to 300V or Current ranges from 1mA up to 5A may be specified. (True RMS measurement option available)

Relay Output

Fail Safe, De-energise on Trip & Loss of power as standard. A set of double pole changeover (D.P.C.O) contacts, rated at 250VAC, 2A, 100VA (resistive).

Red LED indication of Relay status, illuminated when healthy Energised & Extinguished when De-energised in Trip state. Trip configuration may be specified as High or Low.

In a typical High Trip application, the relay will change state when the input exceeds the level set on TRIP 1 and return to normal when it falls below the std 1% span dead band.

Variable hysteresis option 'V' is available: DB1 pot is fitted to allow 0.5 to 20% of span dead band adjustment.

Performance

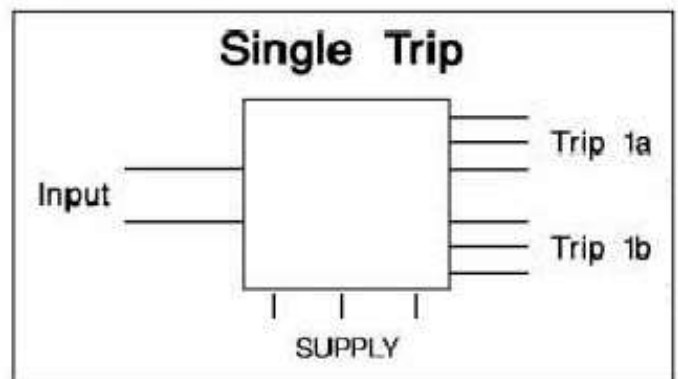
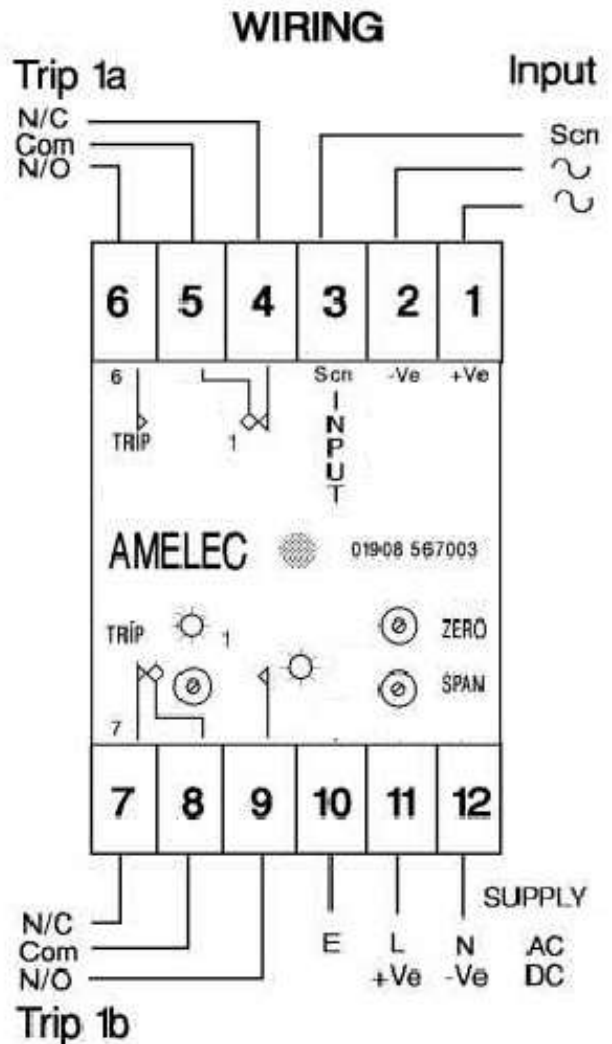
Trip settability: ±1%
 Trip repeatability: ±0.1%
 Response time: <400mS (0-100% input step change)
 Isolation: 1000V RMS Input/Contacts/Supply/Earth
 Adjustments: 15-Turn blindset potentiometers as std

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 (Controlled EM)
 ('K' option to the highest Generic Industrial levels)

Mounting/Dimensions

Enclosure: 50w x 75h x 110d mm
 Din Rail (TS35) or Surface by corner fixing holes
 ('K' option enclosure = 182d mm)



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