

ADT150X Trip Amplifier

- Suitable for any unusual AC /DC Inputs.
- Supply voltage: 24Vdc / 115Vac / 230Vac
- Amelec standard 10 year guarantee
- Suitable for SIL Level 1, 2, & 3 (IEC 61508-2)

APPLICATION

Any application unusual input is required to be monitored and raise alarm if the input rises or falls more than the set point.

TECHNICAL SPECIFICATION

FUNCTION

Trip = Input < Set point (Low trip)
Trip = Input > Set point (High Trip)

INPUT

Voltage AC or DC Selected by Terminals
TB1 (AC)/3, AC Input, up to 300V can be specified.
TB2 (+)/3, DC Input, up to 300V can be specified.

Current AC or DC Selected by Terminals
TB1 (AC)/2, AC Input, up to 5A can be specified.
TB3 (+)/2, DC Input, up to 5A can be specified.

AC signal sinusoidal 50Hz nominal, others may be specified.

OUTPUT

1 x DPCO contacts, rated at 250VAC, 2A, 100VA resistive.
(Relay Normally Energise, De-energised on trip)

CONTROLS

Zero / Span: 15 turn potentiometer to set internal input reference (Factory set).
Trip 1: 15 turn potentiometer to set trip point in the range of 0 to 110%.

INDICATOR

Power ON: LED, Amber.
Relay status: LED, Red.

PERFORMANCE

Trip settability: better than $\pm 1\%$
Trip repeatability: better than $\pm 0.1\%$
Response time: Typically < 400mS
Dead band: Typically < 1%
Power consumption: < 3VA

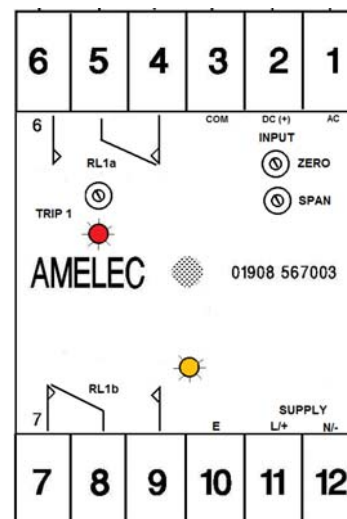
PROTECTION

Isolation 1000V RMS. Inputs/Contacts/Supply/Earth
Internal Fuse.
Failsafe Relay loss of power
Input over range up to typically 200%.

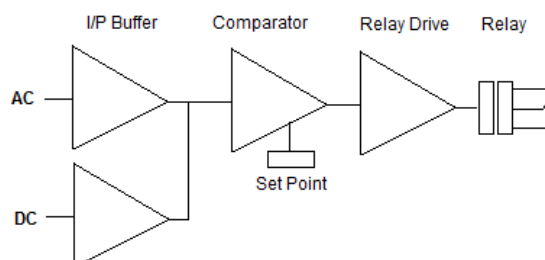
TERMINATION

AC	1
DC (+)	2
com	3
RL1a-NC	4
RL1a-COM	5
RL1a-NO	6
RL1b-NC	7
RL1b-COM	8
RL1b-NO	9
Earth	10
Live / +	11
Neutral / -	12

FRONT VIEW



FUNCTION BLOCK DIAGRAM



ENVIRONMENTAL CONDITION

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

MOUNTING / DIMENSION

Enclosure: 50w x 75h x 110d
Mounting: Din rail / Surface (optional Panel Mount)
Weight < 300g

ADD ON / OPTIONS

DI: LCD display for local monitoring
J : Input injection jack socket
P: Test point (Trip set point monitoring)
K: RFI protection to IEC801-3
Non standard Power supply ranges available