

AHT646 Slidewire Differential Trip Amplifier

- · Suitable for wire wound slidewires
- Supply voltage 21 to 30Vdc
- Amelec standard 10 year guarantee
- Suitable for SIL Level 1, 2, & 3 (IEC 61508-2)

TECHNICAL SPECIFICATION

FUNCTION

High Trip: Relay de-energise on rising input. Low Trip: Relay de-energise on falling input.

INPUT

Any 2, 3 wire thermistor, slidewire or potentiometer.

OUTPUT

The Trip output is a pair of changeover contacts SPCO per set point, rated at 250VAC, 2A, 100VA (resistive).

CONTROLS

Zero / Span: 15 turn potentiometers, only fitted when used with common display.

Set point: 15 turn potentiometer to set Trip point within set input range.

INDICATOR

Amber Led: power ON indicator Red Leds: Relay status indicators

PERFORMANCE

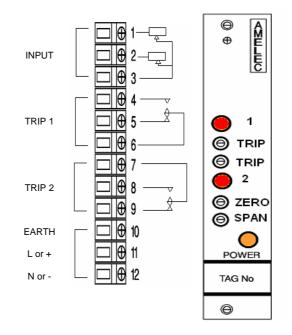
Trip repeatability: < ±0.1% Response time: Typically < 400mS Trip settability: < ±0.1%

PROTECTION

Isolation 1000V RMS*. Input/Contacts/Supply/Earth *500VDC if RFI option (K) is specified. Internal Fuse.
Fail safe on loss of power Input over range typically at 300%.

TERMINATION

FRONT VIEW



FUNCTION BLOCK DIAGRAM



ENVIROMENTAL CONDITION

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

MOUNTING / DIMENSION

Card 3U high 4E wide Mounting 19" rack / 84E wide (See rack GA for details) Card weight < 200g

ADD ON / OPTIONS

DI: Common 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