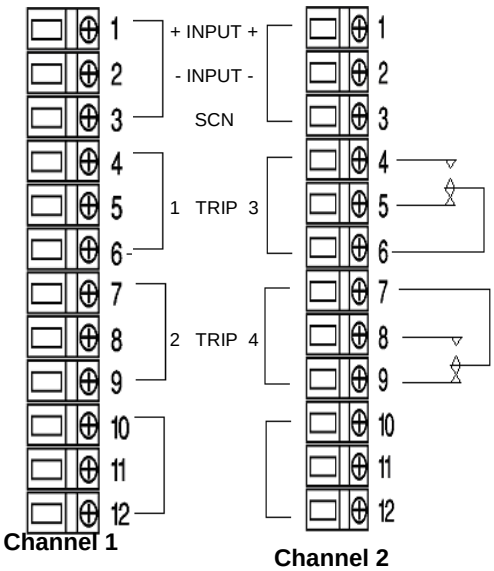
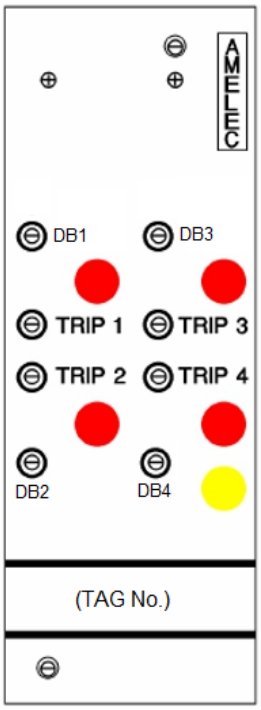
AHT638V - Dual Channel Dual Trip Amplifier

- Suitable for any process input
- Supply voltage 21 to 30Vdc
- Amelec standard 10 year guarantee
- Suitable for SIL Level 1, 2, & 3 (IEC 61508-2)

TERMINATION



FRONT VIEW



TECHNICAL SPECIFICATION

FUNCTION

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

INPUT

DC current / voltage can be specified in the range of:
Current up to 100mA max (Passive)
Voltage 0.4 to 100V max
Typical input: 4 - 20mA (Passive)

OUTPUT

The Trip output is a pair of changeover contacts SPCO, rated at 250VAC, 3A, 100VA (resistive).

CONTROLS

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

Set point: 15 turn potentiometer to set each Trip point within cal

DB1/2/3/4: 15 turn potentiometers to set Trip hysteresis within 1

INDICATOR

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

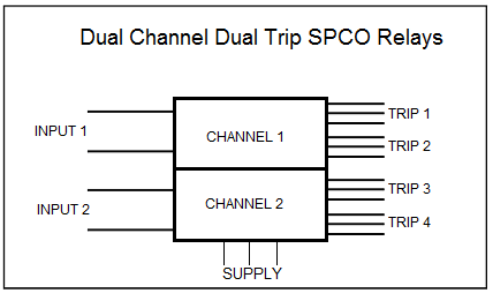
PERFORMANCE

Trip repeatability: < ±0.1%
Response time: Typically < 100mS
Trip settability: < ±0.1%
Input O/C response: Downscale drive
(Upscale drive option available)

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%.

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

Card 3U high 8E wide
Mounting 19” rack / 84E wide (See rack GA for details)
Card weight < 300g

ADD ON / OPTIONS

X: Input O/C response Upscale drive
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

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