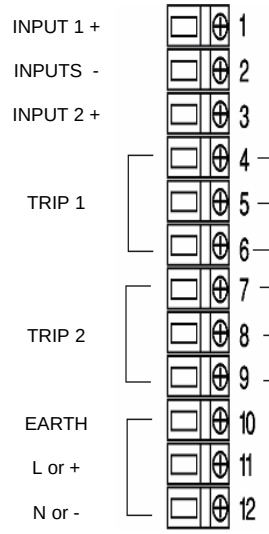
AHT639 Process Deviation Trip Amplifier

- 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

Deviation trip amplifier (Input 1 – Input 2)
Trip 1: Relay de-energise on Input 1> Input 2.
Trip 2: Relay de-energise on Input 2> Input 1.

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)
Note. Input 1 & 2 shares a common 0V.

OUTPUT

Each Trip output is a changeover contact rated at 250VAC, 2A, 100VA (resistive)

CONTROLS

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

INDICATOR

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

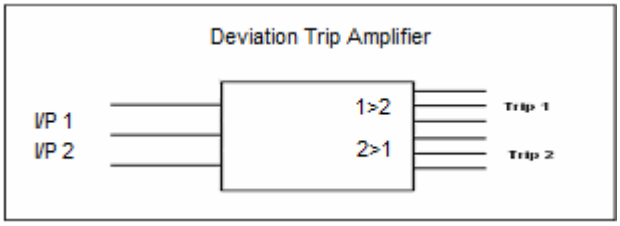
PERFORMANCE

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.
Input O/C fail downscale or upscale on request.
Input over range typically at 300%.

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

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