

## AHT635 Trip Amplifier with wide Hysteresis

- 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)

### TECHNICAL SPECIFICATION

#### FUNCTION

High or low level control.

In a typical high trip application, the trip will change state when the input exceeds the level set on TRIP 1 and return to normal when it falls below the level set on TRIP 2.

#### INPUT

DC current / voltage can be specified in the range of:  
Current up to 400mA 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, 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 Led: Relay status indicators

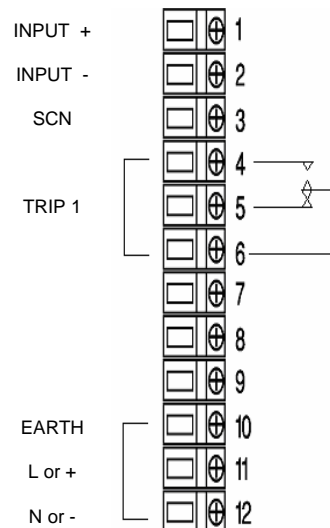
#### PERFORMANCE

Trip repeatability: <  $\pm 0.1\%$   
Response time: Typically < 400ms  
Trip settability: <  $\pm 0.1\%$

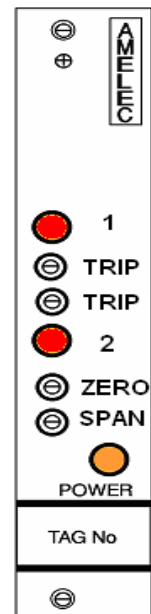
#### PROTECTION

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%.

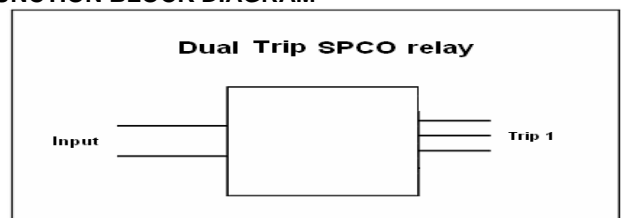
#### TERMINATION



#### 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

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