

## AGS1129X Multi- Deviation Trip Amplifier

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

### APPLICATION

Any application where up to three channels are required to be monitored for deviation.

### TECHNICAL SPECIFICATION

#### INPUT (Three channels)

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: Inputs will have Common 0V.

#### OUTPUT

3 x SPCO relay rated at 250VAC, 2A, 100VA resistive

#### CONTROLS

Trip : 15 turn potentiometer to set deviation limit in the range of 1 to 110%.

#### INDICATOR

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

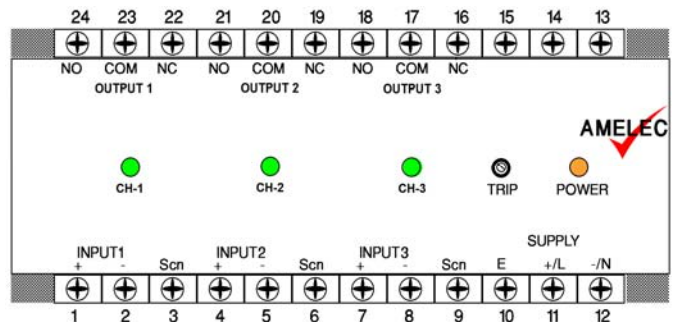
#### PERFORMANCE

Trip settability: better than  $\pm 1\%$   
 Trip repeatability: better than  $\pm 0.1\%$   
 Dead band: Typically  $< 1\%$   
 Response time: Typically  $< 400\text{ms}$   
 Accuracy:  $< \pm 0.1\%$   
 Power:  $< 3.5\text{W}$

#### PROTECTION

Isolation 1000V RMS.  
 Inputs/Contacts/Output/Supply/Earth  
 Internal Fuse.  
 Failsafe Relay loss of power  
 Input over range up to typically 300%.  
 Input O/C response downscale

#### FRONT VIEW



#### TERMINATION

Input 1	TB1 +	TB2 -	
Scn	TB3		
Input 2	TB4 +	TB5 -	
Scn	TB6		
Input 3	TB7 +	TB8 -	
Scn	TB9		
O/P 1	TB24 N/O	TB23 Com	TB22 N/C
O/P 2	TB21 N/O	TB20 Com	TB19 N/C
O/P 3	TB18 N/O	TB17 Com	TB16 N/C
Supply	TB10 Earth	TB11 Live/+	TB12 Neutral

#### FUNCTION

Any one input deviating away from the other two inputs by more than the limit set on trip set point will activate trip and give change over contacts with its associated LED extinguished.

#### PROTECTION

Isolation 1000V RMS. Inputs/Contacts/Supply/Earth  
 Internal Fuse.  
 Failsafe Relay loss of power  
 Input over range up to typically 300%.

#### ENVIRONMENTAL CONDITION

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

#### MOUNTING / DIMENSION

Enclosure: 152w x 81h x 137d  
 Mounting: Din rail / Surface  
 Weight < 300g

#### ADD ON / OPTIONS

DI: LCD display for local monitoring  
 J : Input injection jack socket  
 P: Test point (Trip set point monitoring)  
 Non standard Power supply ranges available