

AGS1125-2 Dual Channel Inclinometer

- Suitable for Inclination or Acceleration and Roll
- Loop powered as standard, 10V to 28Vdc max External
- Amelec 3-year warranty
- Suitable for SIL1 & SIL2 rated (EN 61508-2) Safety instrumented system (SIS) loop applications, as 1001 architecture (HFT:0)

APPLICATION

The AGS1125-2 is suitable for applications requiring precise inclination, acceleration, roll measurements along two axis under harsh circumstances and returning a 4-20mA output signal for each.

Examples of application areas include;

Construction, Machinery, Transportation & Conveyor Systems, Platforms, Cranes & Lifting Equipment, Vehicles, Aircraft & Ships, as well as general mechanical Safety Engineering Operations & Automation Technology.

TECHNICAL SPECIFICATION

FUNCTION

Provides DC output signals proportional to roll and inclination in the X and Y coordinates of housing.

OUTPUT OPTIONS:

Minimum loop currents: 2.5mA ... 3.5Ma Maximum loop currents: 22mA ... 26mA Output signal loop current: 4mA ... 20mA (12mA for zero position) Minimum loop voltage: 12V Maximum loop voltage: 28V **OR**

-1V to 0 to +1V / -10V to 0 to +10Vdc (Separate 12V / 24Vdc supply required) Both output channels are electrically isolated from and independent of each other.

CONTROLS

Zero / Span: 15 turn potentiometer (+/- 25%).

PERFORMANCE

Measuring ranges: +/-10°, +/-30° or +/-70° as std (+/-80° option 'X') Resolution: < 0.002° / 0.005° / 0.01° / (0.01°)Linearity: $< \pm 0.2\%$ Accuracy: $< \pm 0.1\%$ Response time: Typically < 400mS (0-100% step change)

PROTECTION

IP65

Isolation: 1000V RMS. Sensors/Output 1/Output 2/Housing.

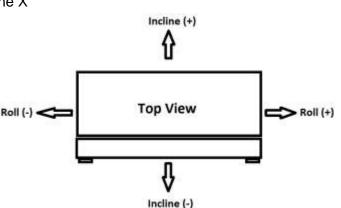
ENVIRONMENTAL CONDITIONS

Storage temperature: -40°C to +70°C Operating Ambient: -15°C to +55°C Relative Humidity: 5 to 95% RH (Non-Condensing) EMC: 2014/30/EU, EN 61326-1:2013 (Controlled EM) (Internal heater option 'HTR' available for extreme cold environments)

Tel: 01908-567003 Email: sales@amelec-uk.com



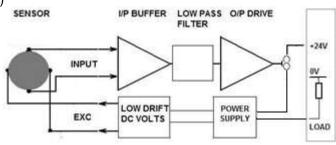
Front View



TERMINATION

Output 1: TB1 (+) / TB2 (-) / TB3 (Scn) Output 2: TB4 (+) / TB5 (-) / TB6 (Scn)

FUNCTION BLOCK DIAGRAM (each channel)



MOUNTING / DIMENSION

Enclosure: 122w x 122h x 90d mm Fixing holes: 82w x 106h mm (Ø 7mm) Mounting: Surface Weight < 1.3kg

Visit: www.amelec-uk.com Fax: 01908-566735