

AGS1125-2 Dual Channel Inclinometer

- Suitable for Inclination or Acceleration and Roll
- Loop powered as standard, 10V to 30Vdc max External
- Amelec 2 year warranty
- Suitable for SIL1 & SIL2 rated (EN 61508-2) Safety instrumented system (SIS) loop applications, as 1oo1 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: 30V

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: < ±0.2%
Accuracy: < ±0.1%
Response time: Typically < 400mS (0-100% step change)

PROTECTION

IP65

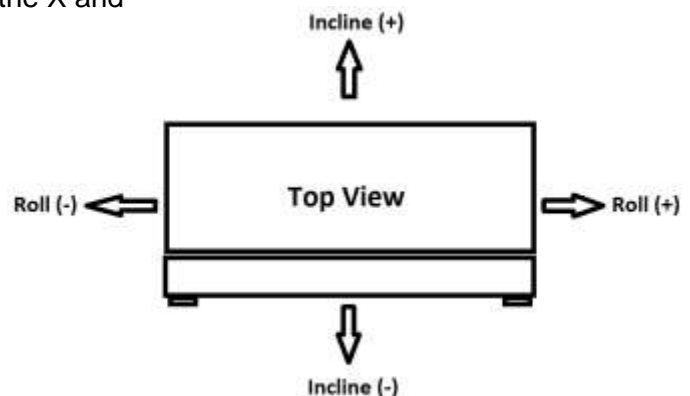
Isolation: 500V RMS. Sensors/Output 1/Output 2/Housing.

ENVIRONMENTAL CONDITION

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)



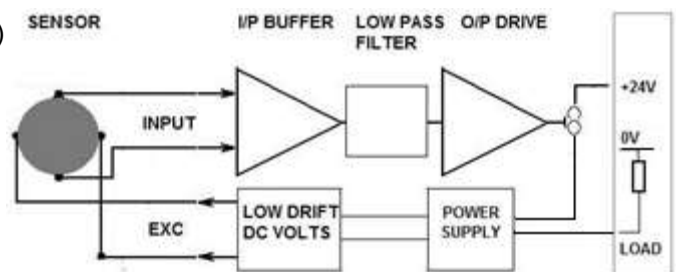
Top
Front View



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