

AGS1125X-2-EP Dual Channel Inclinator

- Suitable for Inclination or Acceleration and Roll
- Externally Powered: 18V to 36Vdc External Supply range
- Amelec 3-year warranty
- Suitable for SIL1 & SIL2 rated (EN 61508-2) Safety instrumented system (SIS) loop applications, as 1oo1 architecture (HFT:0)

APPLICATION

The AGS1125X-2-EP 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.

OUTPUTS

Output signal loop current: 4mA ... 20mA (500ohms max load each) (12mA for zero position)

Both output channels are electrically isolated from each other.

SUPPLY

Nom. 24Vdc (18-36Vdc)
Consumption: $\leq 250\text{mA}$

CONTROLS

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

PERFORMANCE

Measuring ranges: $\pm 10^\circ$, $\pm 30^\circ$ or $\pm 70^\circ$ as std ($\pm 80^\circ$ optional)

Resolution: $< 0.002^\circ / 0.005^\circ / 0.01^\circ / 0.01^\circ$

Linearity: $< \pm 0.2\%$

Accuracy: $< \pm 0.1\%$

Response time: Typically $< 400\text{ms}$ (0-100% step change)

PROTECTION

IP65

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

ENVIRONMENTAL CONDITIONS

Storage temperature: -40°C to $+70^\circ\text{C}$

Operating Ambient: -15°C to $+55^\circ\text{C}$

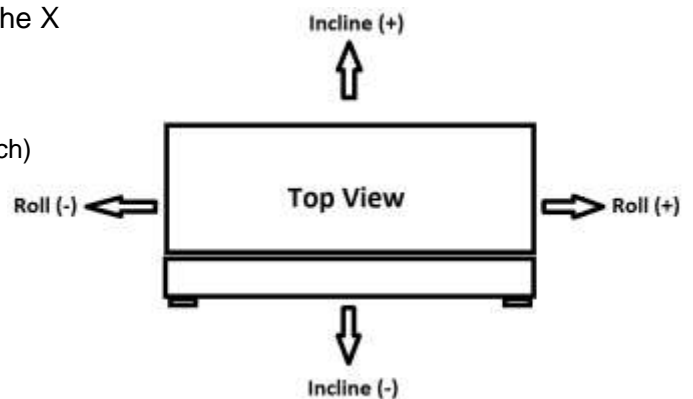
Relative Humidity: 5 to 95% RH (Non-Condensing)

EMC: 2014/30/EU, EN 61326-1:2013 (Controlled EM)

(Internal heater option 'HTR' available for extreme cold environments)



Front View



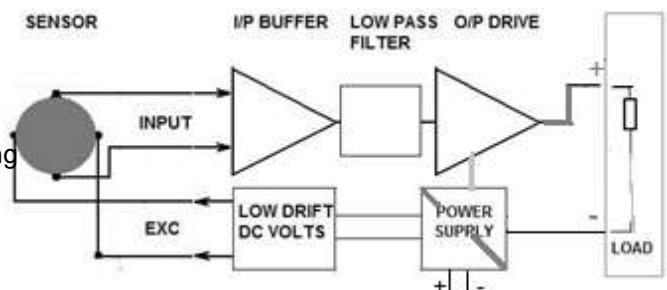
TERMINATION

Output 1: TB1 (+) / TB2 (-) / TB3 (Scn)

Output 2: TB4 (+) / TB5 (-) / TB6 (Scn)

Supply: TB7 (+) / TB8 (-)

FUNCTION BLOCK DIAGRAM (each channel)



MOUNTING / DIMENSION

Enclosure: 122w x 122h x 90d mm

Fixing holes: 82w x 106h mm ($\varnothing 7\text{mm}$)

Mounting: Surface

Weight $< 1.3\text{kg}$