AGS1126X-EP Heading Rate of Change Sensor

- Sensing Rate of Change of Heading
- 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)

Top

Front View

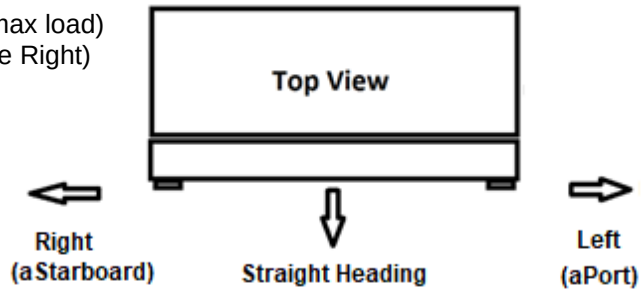
APPLICATION
The AGS1126 is suitable for applications requiring precise rate of change of heading measurements along a single axis under harsh circumstances and returning a 4-20mA output signal.

Examples of application areas include Aviation, Marine, Automotive & Transportation Systems; Vehicles, Aircraft, Ships & Vessels, as well as any other Special Operations Safety Systems.

TECHNICAL SPECIFICATION

FUNCTION
Provides a DC output signal proportional to the Rate of Change of Heading.

OUTPUT OPTIONS:
Output signal loop current: 4mA ... 20mA as standard (500ohms max load)
(12mA when Heading Straight, 12-4mA to the Left, 12-20mA to the Right)
OR
-1V to 0 to +1V / -10V to 0 to +10Vdc
(Separate 12V / 24Vdc supply required)



SUPPLY
Nom. 24Vdc (18-36Vdc)
Consumption: ≤250mA

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

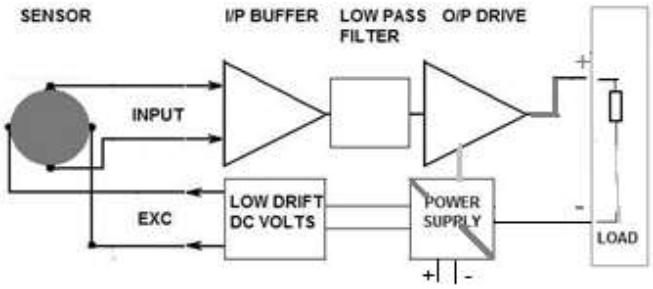
PERFORMANCE
Measuring ranges: Any, units are Customised & Calibrated to meet the wide array of different application requirements
Linearity/Accuracy: < ±1%
Response time: Typically ≤100mS

PROTECTION
IP65
Isolation: 1000V RMS. Sensor/Output/Housing.

ENVIRONMENTAL CONDITIONS
Storage temperature: -40ºC to +70ºC
Operating Ambient: -15ºC to +55ºC
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)

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

FUNCTION BLOCK DIAGRAM



MOUNTING / DIMENSIONS
Enclosure: 122w x 122h x 90d mm
Fixing holes: 82w x 106h mm *(Ø 7mm)*
Mounting: Surface
(in a fixed location/direction relative to the vessel)
Weight < 1.3kg

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