

# **AGS1126 Heading Rate of Change Sensor**

- Sensing Rate of Change of Heading
- Loop powered as standard, 12V 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 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.

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**Front View** 

Left

(aPort)

**Top View** 

Straight Heading

### **TECHNICAL SPECIFICATION**

### **FUNCTION**

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

### **OUTPUT OPTIONS:**

Minimum loop currents: 2.5mA ... 3.5Ma Maximum loop currents: 22mA ... 26mA

Output signal loop current: 4mA ... 20mA as standard

(12mA when Heading Straight, 12-4mA to the Left, 12-20mA to the Right)

Minimum loop voltage: 12V Maximum loop voltage: 28V

OR

-1V to 0 to +1V / -10V to 0 to +10Vdc (Separate 12V / 24Vdc supply required)

### 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: -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)

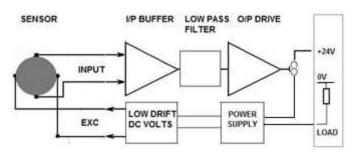
# **TERMINATION**

Right

(a Starboard)

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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