AM-RSS - Programmable Sensor Rotary Shafted Sensor - Moulded

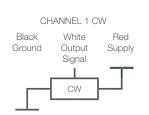
- Hall Effect Technology
- Long life extremely robust
- Programmable Angles from 30° up to 360°
- Redundant output
- Numerous shaft and mounting options as standard
- Form U, D-Shaft and spring coupling drive shaft as standard
- Bespoke Mounting / Shaft options available on request

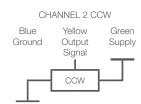
The AM-RSS series programmable angle sensors offer a flexible range of performance for high duty cycle position feedback applications in all areas of industry. With programmable angle selection, and a choice of U-Shaft, D-Shaft and Spring Coupling mounting shafts as standard as well as numerous input and output options this compact and contactless Hall Effect sensor series features IP68 sealing and redundant output in a very competitive package.

General specifications

Mechanical		Vibration	202000 Hz; Amax = 0.75 mm; amax = 31.4 g to IEC 60068-2-6			
Typical Life Cycle	>50 million movements (restriction by mechanics)	IP rating	IP68 (minimum)			
Torque	< 0.8 Ncm	551111111111111				
Measuring range	360º redundant, signal 1 cw, signal 2 ccw	Electrical				
Max. operating speed	120 U/min	Supply Voltage	5V +/- 0.5V			
Housing	High Grade Temperature Resistant Plastic		Ratiometric 5%95% of supply (+/-25mv of specified electrical output range for both start & end voltage)			
Bearing	Oilite	Output signal	PWM frequency 100Hz 1000Hz, 1000Hz default,			
Shaft	Stainless Steel- 316 as U-Shaft / D-Shaft / Spring Coupling	Independant linearity	duty cycle between 5%-95% +/- 0.5% of each signal range			
Tightening torque	Maximum recommended tightening Torque 2Nm	Isolation resistance	200 MΩ (500 VDC, 1 bar, 2s)			
Mounting	Customer to ensure correct suitability and fitment of	Repeatability	<= 0.2% (dependent on mounting tolerances)			
inounting	mounting bolts	Electrical connection	See ordering code/wiring diagram			
Environmental	-40°C to +125°C (Short Term 150°C [DR25 Cable]) &	Cable type	Raychem Spec 55, 24 AWG; Sleeving- Raychem DR25 & FEP, 24 AWG; Sleeving- PUR			
Operating temperature	-40°C to +85°C (Short Term 90°C[Low Temp PUR Cable])					

Wiring







<u>PHOEI</u> A M E R

* Actual colour may vai

CE CK

CE ER

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Ordering information

(Please use the characters in the chart below to construct your product code)

These standard models are available from stock:		
	95088 AM-RSS-S-112-2838-030-1178-50-R	95402 AM-RSS-D-111-2832-360-17-50-L
	95298 AM-RSS-S-112-2838-060-1178-50-R	95073 AM-RSS-D-111-2838-360-17-50-L
	95299 AM-RSS-S-112-2838-120-1178-50-R	95401 AM-RSS-D-112-2838-360-1178-50-L
	95300 AM-RSS-S-112-2838-180-1178-50-R	95261 AM-RSS-S-111-2838-360-17-50-L
	94472 AM-RSS-S-112-2838-360-1178-50-R	94480 AM-RSS-S-111-2832-360-17-50-L

<u>AM-RSS – S – 1 1 2 – 2832 – 360 – 11 78 – 50 - R</u>										
Product Series	Shaft	Input Type	Output Type	Number of Channels	Mounting Flange PCD	Electrical Angle	Output Signal	Channel Direction	Cable Length	Cable Type
Rotary Shafted Sensor	U = Male U Shaft D = Male D Shaft S = Male Spring Coupling Shaft X = Customised on request	1 = 5V Supply 2 = 6-32V Unregulated Supply 3 = 12-32V Unregulated Supply 4 = 9-32V Supply	1 = Analog Ratiometric 2 = PWM 3 = 0-10V 4 = 4 20mA	1 = Single Channel 2 = Dual Channel	32 = 32mm PCD 38 = 38mm PCD XX = Custom on request	360 = Standard Electrical Angle 360° Optional Angle from 30° to 360° in 1° steps (e.g. 181=181°	1 = 5% to 95% of Input Voltage 2 = 10% to 90% of Input Voltage 3 = Custom on request e.g. 11 = 5 to 95% both channels	7 = Clockwise* 8 = Counter Clockwise* e.g. 77 = Clockwise both channels	50 = Standard Cable Length 500mm XX = Custom on request < 1 metre XXX = Custom on request > 1 metre	R = Raychem L = Lower Temp Rating

Input and Output options coming soon

Some Inputs to Outputs are not configurable please contact our sales team for more info.

*In view of the shaft.



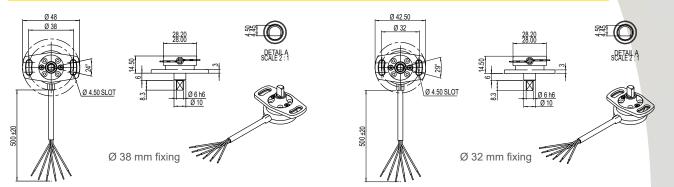
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AM-RSS - Programmable Sensor Rotary Shafted Sensor - Moulded

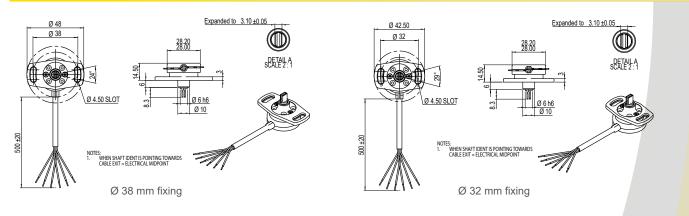
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Outline dimensions in mm

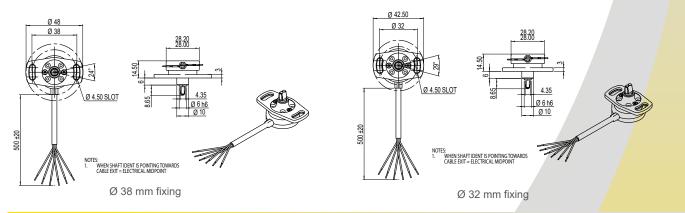
Standard D-Shaft option



Standard U-Shaft option



Standard Spring-Shaft option

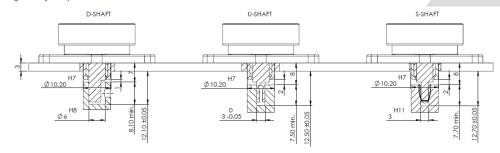


Recommended installation guide

Recommended lead in chamfer on flange boss and mating shaft interface.

- D-Shaft geometry utilises a set screw (recommend at minimum M3 Dog point set screw). S-Shaft spring clip compresses into slot (not as shown).
- .
- U-Shaft geometry compresses into slot.

Group





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