AM-RSS - Programmable Sensor Rotary Shafted Sensor - Moulded



- Hall Effect Technology
- Long life extremely robust
- Programmable Angles from 30° up to 360°
- IP68 protection
- 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						
Typical Life Cycle	>50 million movements (restriction by mechanics)					
Torque	< 0.8 Ncm					
Measuring range	360º redundant, signal 1 cw, signal 2 ccw					
Max. operating speed	120 U/min					
Housing	High Grade Temperature Resistant Plastic					
Bearing	Oilite					
Shaft	Stainless Steel- 316 as U-Shaft / D-Shaft / Spring Coupling					
Environmental						
Operating temperature	-40°C to +125°C (Short Term 150°C [DR25 Cable]) & -40°C to +85°C (Short Term 90°C[Low Temp PUR Cable])					
	F 2000 H- A 0.75					
Vibration	52000 Hz; Amax = 0.75 mm; amax = 20g to IEC 60068-2-6					

Electrical					
Supply Voltage	5V +/- 0.5V				
Output signal	Ratiometric 5%95% of supply (+/-25mv of specified electrical output range for both start & end voltage) PMW frequency 100Hz 1000Hz, 1000Hz default, duty cycle between 5%-95%				
Independant linearity	+/- 0.5% of each signal range				
Isolation resistance	200 MΩ (500 VDC, 1 bar, 2s)				
Repeatability	<= 0.2% (dependent on mounting tolerances)				
Electrical connection	See ordering code/wiring diagram				
Cable type	Raychem Spec 55, 24 AWG; Sleeving- Raychem DR25 & FEP, 24 AWG; Sleeving- PUR				

Ordering information

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

These standard models are available from stock:

AM-RSS-S-112-2838-360-1178-50-R AM-RSS-S-112-2838-110-1178-50-R AM-RSS-S-112-2838-030-1178-50-R

<u>AM-RSS - S - 1 1 2 - 2832 - 360 - 11 78 - 50 - R</u>

Prod Seri Cod	es Shaft	Input Type	Output Type	Number of Channels	Mounting Flange PCD	Electrical Angle	Output Signal	Channel Direction	Cable Length	Cable Type
Rotary Shafted Sensor	d Spring	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

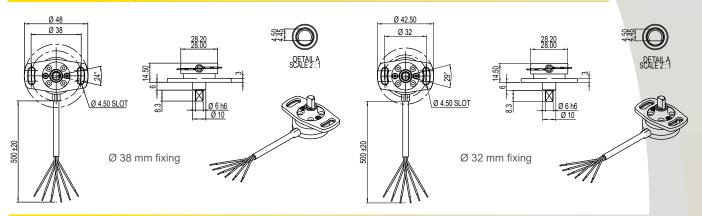


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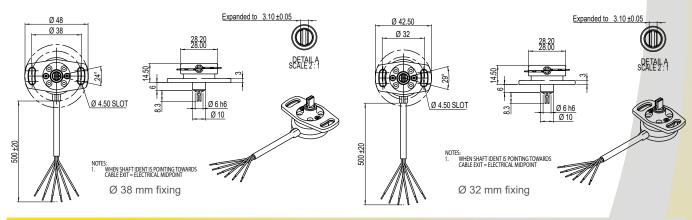


Outline dimensions in mm

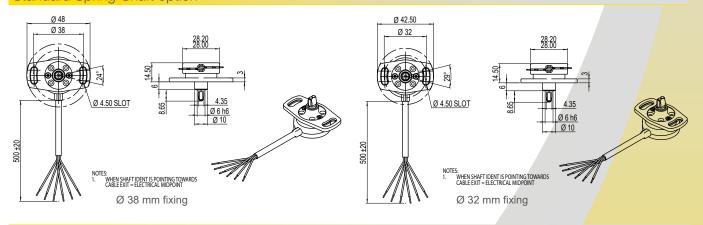
Standard D-Shaft option



Standard U-Shaft option



Standard Spring-Shaft option



Wiring



