



- 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

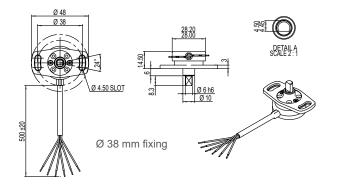
The AM-RSS series programmable angle sensors offer a flexible range of performance for high duty cycle position feedback applications in all areas of industry. With programmable angle selection, and a choice of U-Shaft, D-Shaft and Spring Coupling mounting shafts as standard as well as numerous input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

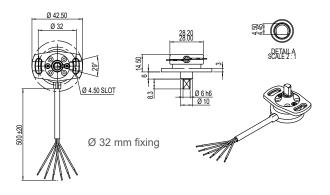
Specifications								
Mechanical								
Typical Life Cycle	>50 million movements (restriction by mechanics)							
Torque	I Grand Gr							
leasuring range 360° redundant, signal 1 cw, signal 2 ccw								
Max. operating speed								
Housing High Grade Temperature Resistant Plastic								
Bearing	Oilite							
Shaft Stainless Steel - 316 as U-Shaft / D-Shaft / Spring Coupling								
ightening torque Maximum recommended tightening Torque 2Nm								
Mounting Customer to ensure correct suitability and fitment of mounting bolts								
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])								
Vibration 202000 Hz; Amax = 0.75 mm; amax = 31.4 g to IEC 60068-2-6								
IP rating IP68 (minimum)								
Electrical								
Supply Voltage	5V +/- 0.5V							
Output signal	Ratiometric 5%95% of supply (+/-25mv of specified electrical output range for both start & end voltage) PWM 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	ection See ordering code/wiring diagram							
Cable type	Raychem Spec 55, 24 AWG; Sleeving - Raychem DR25 & FEP, 24 AWG; Sleeving- PUR							
MTTFd	370 years							
Coloured Housing								
Green (other colours avail	able, POA, MOQ 100 units)							



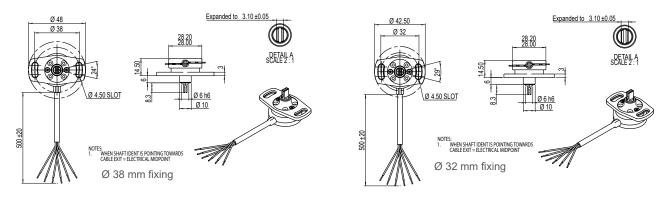
Outline dimensions in mm

Standard D-Shaft option

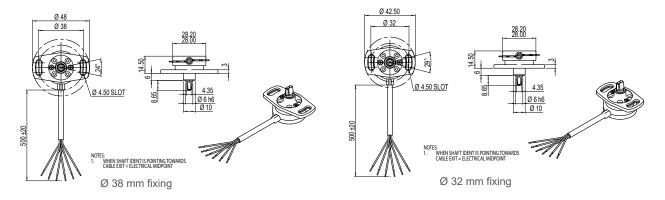




Standard U-Shaft option

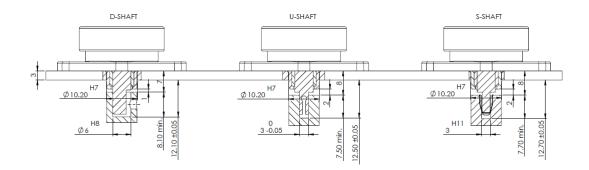


Standard Spring-Shaft option



Recommeded 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.



Wiring





Ordering information

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

	ple code	<u>AM-F</u>	 	-	 -		-	 	<u></u>	 -	00	_	
Seri													
Rotai	ry Shafted Sensor												
Sha	ft												
U	Male U Schaft												
D	Male D Schaft												
5	Male Spring Coupling												
<	Customised on request												
npu	ıt Type												
	5 V Supply												
Out	put Type												
	Analog Ratiometric												
2	PMW												
Nun	nber of Channels												
	Single Channel		 										
	Dual Channel												
2	32 mm PCD		 		 								
8	38 mm PCD												
X	Custom on request												
	standard Electrical Angle 360°				 	 							
	onal Angle from 30° to 360° in 1° steps												
	(81=181°)												
Out	put Signal												
	5% to 95% of Input Voltage												
	10% to 90% of Input Voltage												
5	Custom on request												
e.g. 1	I = 5 to 95% both channels												
Cha	nnel Direction												
7	Clockwise*												
3	Counter Clockwise*												
e.g. 7	7 = Clockwise both channels												
	le Length												
50	Standard Cable Length 500 mm		 		 	 		 					
×	Custom on request < 1 metre												
xxx	Custom on request > 1 metre												
	le Type												

L Lower Temp Rating

Some Inputs to Outputs are not configurable please contact our sales team for more info. *In view of the shaft

The following models are available as standard products:

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