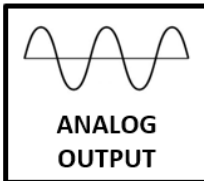
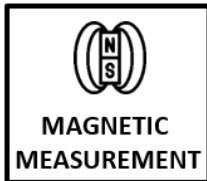


ANGLE SENSOR

RCS 4800

“Non-Contact Measurement, Analog Output, IP67 Protection”



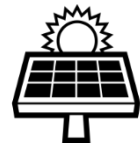
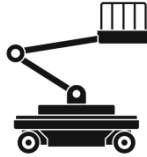
- Non-contact magnetic measurement technology
- 12 bit resolution
- User-selectable angle values between 0-360 °
- 4-20 mA, 0-5VDC, 0-10 VDC or 0.5-4.5 VDC ratiometric output options
- Long service life
- Compact design
- High accuracy

Angle measurement information between 0-360° can be obtained from RCS 4800 series sensors. Measurement limits can be adjusted between 0-360° depending on user request. 0-5V, 0-10V, 4-20mA or ratiometric output options are available. Thanks to its two-piece design consisting of a sensor and a magnet, it offers easy installation.

With high accuracy, compact design and durable construction, RCS 4800 angle sensors are widely used in crane and lifting systems, robotic systems, solar energy, wind farms, auto parts, etc. offers suitable solutions for angle measurement in industrial areas. Thanks to their high IP protection classes, they can easily work in harsh environmental conditions.

SAMPLE APPLICATION AREAS

- Robotic systems
- Auto parts
- Solar and photovoltaic systems
- Automated guided systems
- Crane and lifting technology
- Wind power plant

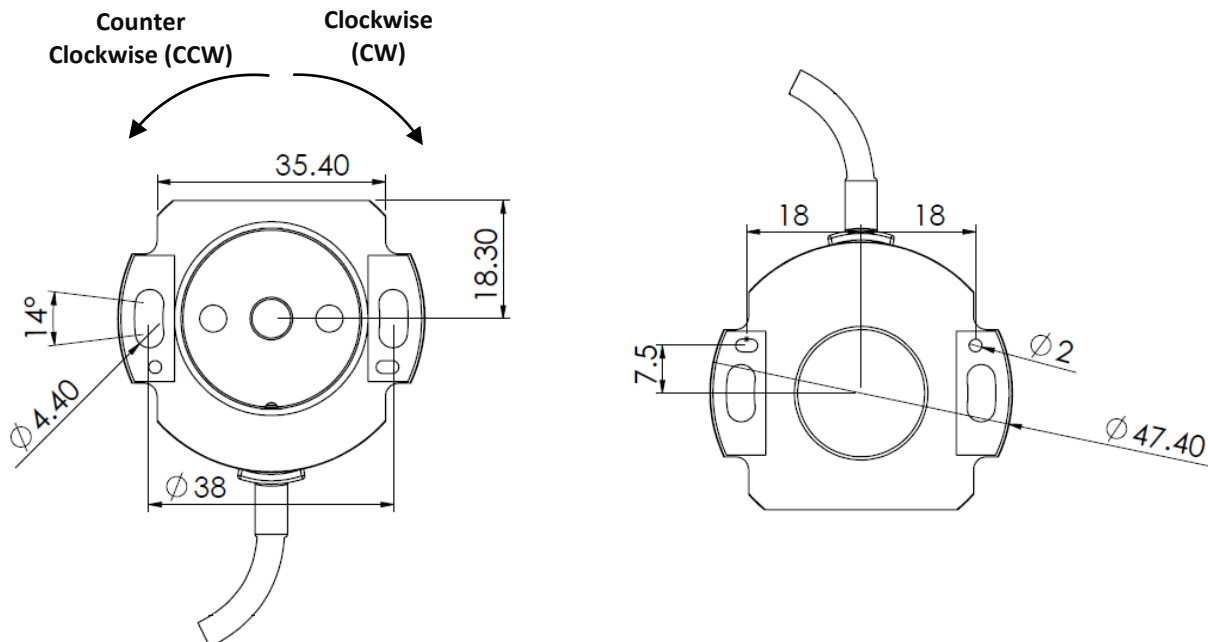


TECHNICAL SPECIFICATIONS

*Measuring Range	Can be produced in the desired range from 0 to 360 °				
Measuring Type	Magnetic, non-contact				
Linearity	±%0.5 FS				
Resolution	12 bit				
Repeatability	0.1°				
Response Frequency	250 Hz				
*Output Signal		0,5...4,5VDC Ratiometric	0...5VDC	0...10VDC	4...20 mA
	Supply Voltage	5 VDC	5 VDC or 9...32VDC	15...32 VDC	9...32 VDC
	Load	≥ 1KΩ	≥ 1KΩ	≥ 1KΩ	0...250 Ω
Current Consumption	30 mA max.				
Reverse Polarity	Yes, only supply				
Electrical Connection	3 x 0,14 mm ² shielded cable				
Max Operational Speed	Mechanically unlimited				
Protection Class	IP67				
Operating Temperature	-25°C ... +85°C				
Material	Housing: Plastic				
	Position marker: Plastic				

Note: The specifications specified by (*) vary depending on the model selected. The detailed code table for product selection is shown on page 3.

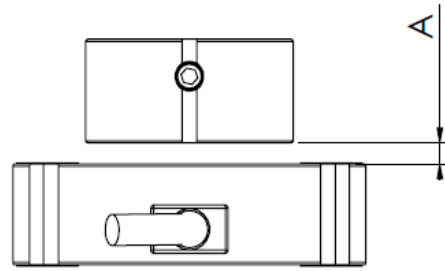
MECHANICAL DIMENSIONS (mm)



MOUNTING INFORMATION

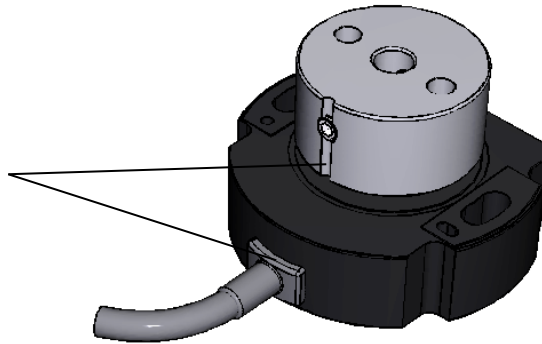
Working Distance and Error Rates

A (mm)	Error (°)
2.00	1.80
2.50	1.60
3.00	1.70



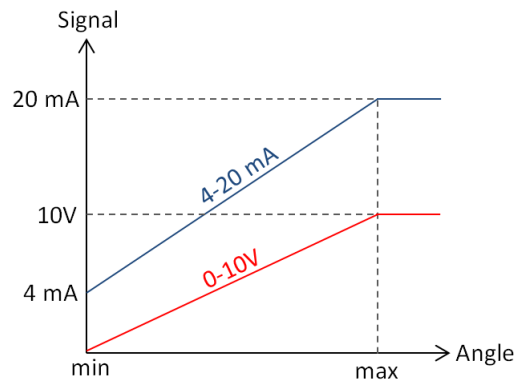
0° Point

The point where the cable output and the line on the position marker intersect is the 0° point.



ELECTRICAL CONNECTION

SIGNAL	CABLE COLOR
+V	Red
0V	Black
Output Signal	Yellow



ORDER CODE

Model										Supply Voltage ⁽¹⁾		Output Signal Direction	
RCS 4800	-	XX	-	XX	-	XX	-	XXX	-	XXX			
Angle Value										Output Signal		Electrical Connection	
The desired angle value can be requested between 0-360 °										A : 4-20 mA		0,5M: 0,5m cable	
										V : 0-10 V		*Optional others	
										V1: 0-5 V (9...32VDC supply)			
										V8: 0.5-4.5 V Ratiometric			
										V9: 0-5 V (5VDC supply)			

- (1) When the output signal is selected as 4-20 mA (A), 0-10V (V) or 0-5V (V1), the supply voltage must be PP
When the output signal is selected as 0.5-4.5V Ratiometric (V8) or 0-5V (V9), the supply voltage must be TTL.
- (2) Optionally, different cable lengths can be requested.