

ANGLE SENSOR

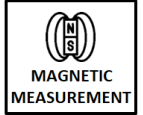
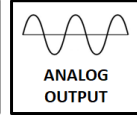
“Non-Contact Measurement, Analog Output”

RCS 3100



GENERAL FEATURES

- Non-contact measurement
- 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
- 6 mm shaft diameter
- IP54 protection class
- Long service life
- Compact design
- High accuracy



The RCS 3100 series sensors are used for taking angle measurement between The measuring limits can be adjusted between 0-360 ° depending on the user request. They have 0-5V, 0-10V, 4-20mA or ratiometric output options.

RCS 3100 angle sensors with high accuracy, compact design and robust construction; offers suitable solutions for angle measurement in industrial areas like crane and lifting systems, robotic systems, solar energy, wind power plants, auto parts etc.

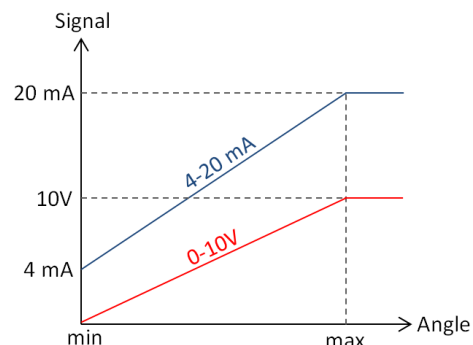
TECHNICAL SPECIFICATIONS

*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 Protection	Yes, only supply				
Electrical Connection	3 x 0,14 mm ² shielded cable				
Max Operational Speed	120 rpm				
Protection Class	IP54				
Operating Temperature	-25°C ... +85°C				
Weight	~65 gr				
Material	Body: Aluminum				
	Shaft: Stainless Steel (diameter:6 mm D-form)				

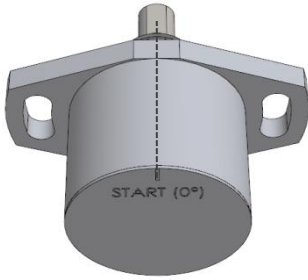
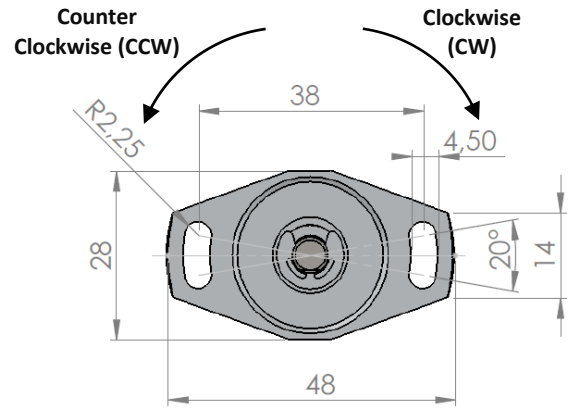
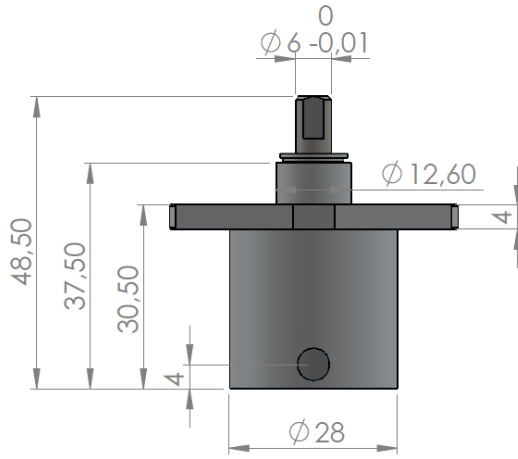
Note: The specifications specified by (*) vary depending on the model selected. The detailed code table for product selection is shown on page 3.

ELECTRICAL CONNECTION

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



MECHANICAL DIMENSIONS (mm)



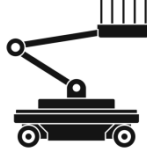
0° Point

The point where the guiding line on the body and the wedge surface of shaft intersect is the 0 ° point.

SAMPLE APPLICATION FIELDS

- Robotic systems
- Auto parts
- Solar and photovoltaic systems

- Automated guided systems
- Crane and lifting technology
- Wind power plant



PRODUCT CODE

Model		Supply Voltage ⁽¹⁾		Output Signal Direction	
RCS 3100	X	XX	XX	XX	X
Angle Value		Output Signal		Electrical Connection ⁽²⁾	
The desired angle value can be requested between 0-360 °		A : 4-20 mA V : 0-10 V V1: 0-5 V (9...32VDC supply) V8: 0.5-4.5 V Ratiometric V9: 0-5 V (5VDC supply)		0,5M: 0,5 m cable (std)	

- (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.

Sample Code: RCS 3100-30-PP-V-CW-0,5M

RCS 3100 series, 0-30° measuring range, PP supply, 0-10V output, Output signal direction is clockwise, 0.5 m cable

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