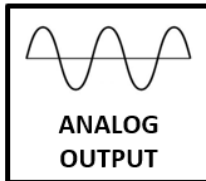
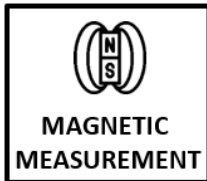


RCS 4800

“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.

کانون ابزار

تلفن:

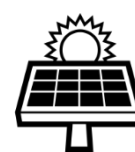
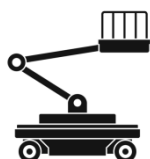
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SAMPLE APPLICATION AREAS

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

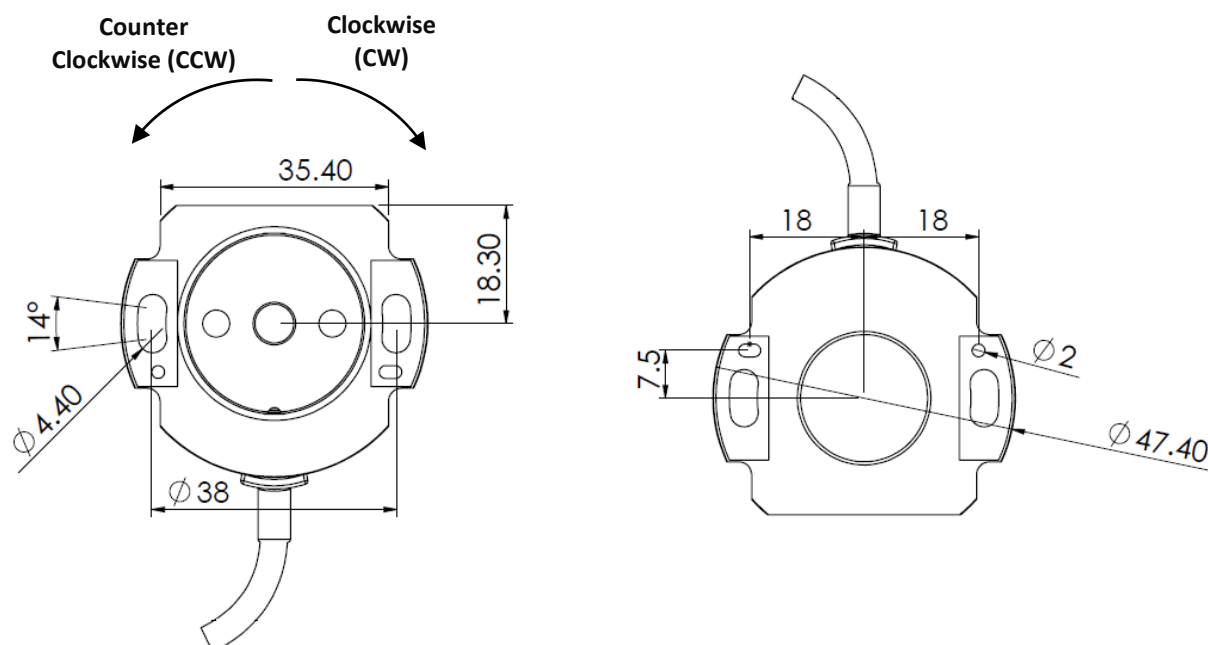


TECHNICAL SPECIFICATIONS

| | | | | | |
|------------------------------|--|---------------------------------|--------------------|------------------|------------------|
| *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.

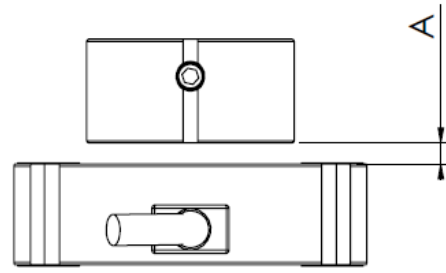
MECHANICAL DIMENSIONS (mm)



MOUNTING INFORMATION

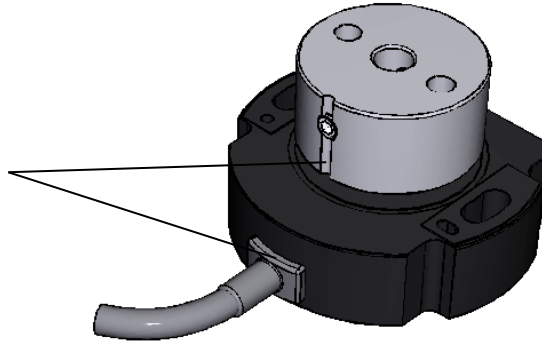
Working Distance and Error Rates

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



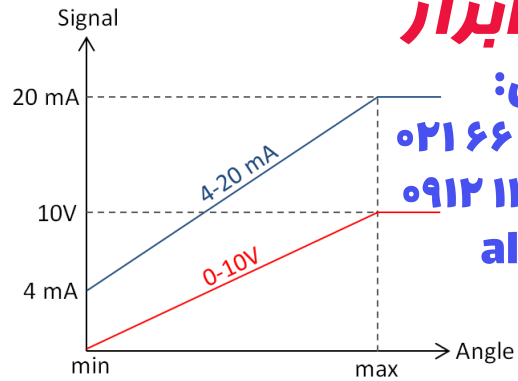
0° Point

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 |



کانون ابزار

تلفن:

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ORDER CODE

| Model | Supply Voltage ⁽¹⁾ | Output Signal Direction |
|--|---|--|
| RCS 4800 - XX - XX - XX - XXX - XXX | TTL: 5VDC PP: For 4-20mA output: 9...32VDC For 0-10V output: 15...32VDC For 0-5V output: 9...32VDC | CW : Clockwise CCW: Counter Clockwise |
| Angle Value | Output Signal | Electrical Connection |
| 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: 0,5m cable *Optional others |

- (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.