

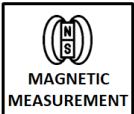
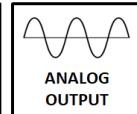
ANGLE SENSOR

“Non-Contact Measurement, Analog Output” RCS 3700



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
- IP67 protection class
- Long service life
- Compact design
- High accuracy



The RCS 3700 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 3700 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.

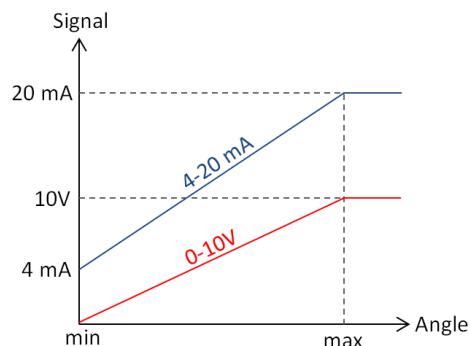
TECHNICAL SPECIFICATIONS

| | | | | | |
|------------------------------------|--|---------------------------------|--------------------|------------------|------------|
| *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 | |
| | Supply Voltage | 5 VDC | 5 VDC or 9...32VDC | 15...32 VDC | 9...32 VDC |
| | Load | ≥ 1KΩ | ≥ 1KΩ | ≥ 1KΩ | 0...250 Ω |
| Reverse Polarity Protection | Yes, only supply | | | | |
| Electrical Connection | 3 x 0,14 mm ² shielded cable | | | | |
| Max Operational Speed | 120 rpm | | | | |
| Protection Class | IP67 | | | | |
| Operating Temperature | -25°C ... +85°C | | | | |
| Material | Body: Aluminum Shaft: Stainless Steel | | | | |

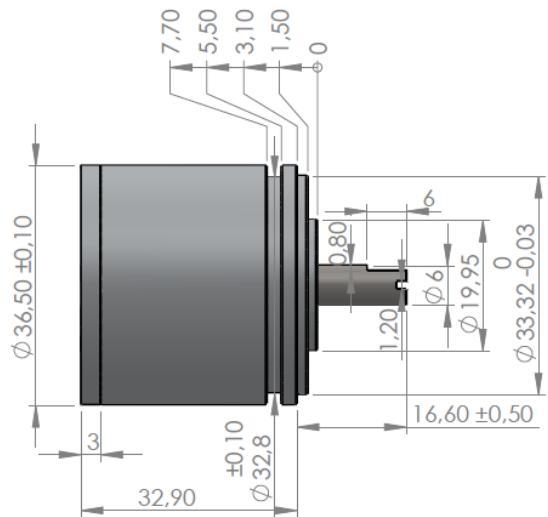
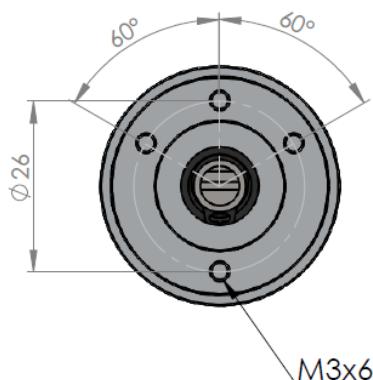
Note: The specifications specified by (*) vary depending on the model selected. The detailed code table for product selection is shown on page 2.

ELECTRICAL CONNECTION

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



MECHANICAL DIMENSIONS (mm)



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 3700 | 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 |
| X | XX | XX |
| Angle Value The desired angle value can be requested between 0-360 ° | Output Signal 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) | Electrical Connection ⁽²⁾ 0,5M: 0,5 m cable (std) |
| XX | XX | X |

(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 3700-30-PP-V-CW-0,5M

RCS 3700 series, 0-30° measuring range, PP supply, 0-10V output, Output signal direction is clockwise, 0.5 m cable

Atek Elektronik Sensör Teknolojileri Sanayi ve Ticaret A.Ş.



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