

R X series non-contact angle sensor column

Features

- True non-contact operation without any loss
- 3.5 M cycle product life
- Solid state Hall effect technology
- IP 6.5 ~ IP 6.9 seal level optional
- Automotive grade EMI / EMC test with integrated reverse polarity and short circuit protection
- Adjust the output signal range at any time in production to increase flexibility
- Split type, flexible installation and wide adaptability



Applications

- Position and motion detection (pedal, throttle, shift, joystick, steering wheel, contact and hook)
- Location detection of agricultural machinery, buses, off-road vehicles, cranes, trucks, industrial/building equipment, etc.
- Suspension / squat position (bus, truck)
- Tilt/fine adjustment position (marine engine, tillage equipment)
- Position detection of aerial work vehicles, equipment, etc.

product description

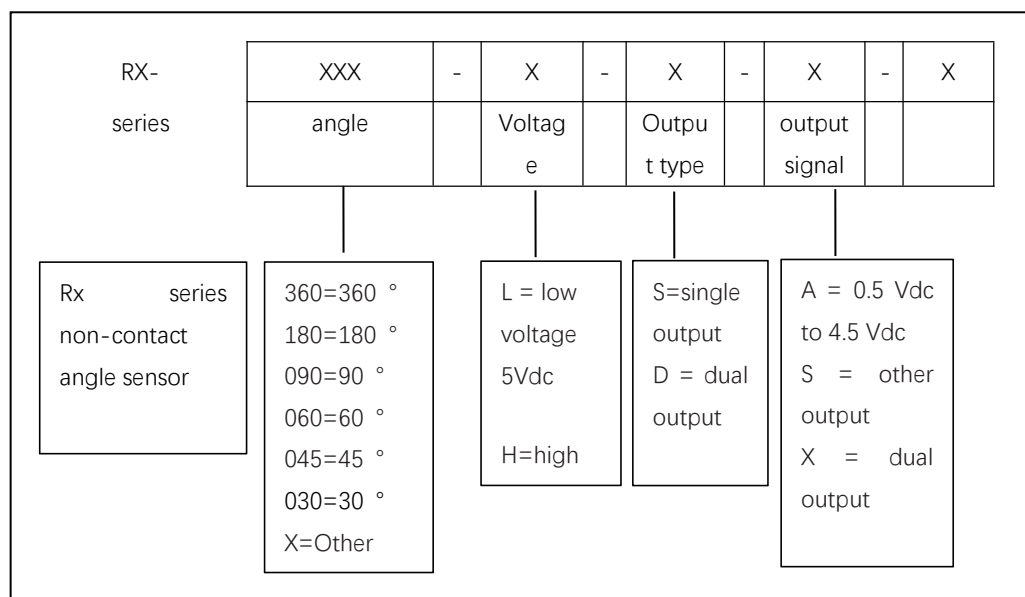
The RX series of non-contact angle sensors can be used in harsh transportation and industrial applications. It is an ultra-low-cost automotive-grade angle product that is widely used in transportation, agricultural machinery, industrial valves and other locations. Sports detection. The basic principle is that the changed magnetic field is converted into a corresponding electric signal through a series of processes by the Hall effect, and the effective stroke can be arbitrarily selected from 0 to 360 degrees. Power can be selected from 5 v ~ 3.2 v.

Product electrical specifications

characteristic	Low voltage (L)	High voltage (H)
voltage	5-5.5 Vdc	7 V dc to 32 V dc
Power consumption	10 mA max	15 mA
Single output: standard	0.5 - 4.5 Vdc (rati ometr ic)	0.5 - 4.5 Vdc (non-r a tio me tric)
Reverse	4.5 - 0.5 Vdc (rati ometr ic)	4.5 - 0.5 Vdc (non-r a tio me tric)
Non-standard	0.15 - 4.75 Vdc Arbitrarily	0.15 - 4.75 Vdc Arbitrarily
Dual output	Ibid.	Ibid.
other	Other outputs can be customized	
Precision	0.5° higher precision can be customized	
Junction temperature	-40 - 170°C	
Operating temperature	-40 - 130°C	
Response time	2 ms	
Overvoltage protection	20Vdc	-
Reverse polarity protection	-10 V dc	-3.0 Vdc
Resolution	14 bit	
Output load resistance	4.5 k Ohm typ	
ESD	8 KV contact, 12KV air gap	
EMS	In accordance with DIN 40839 part 3 (conducted interference) and part 4 (radiation interference)	

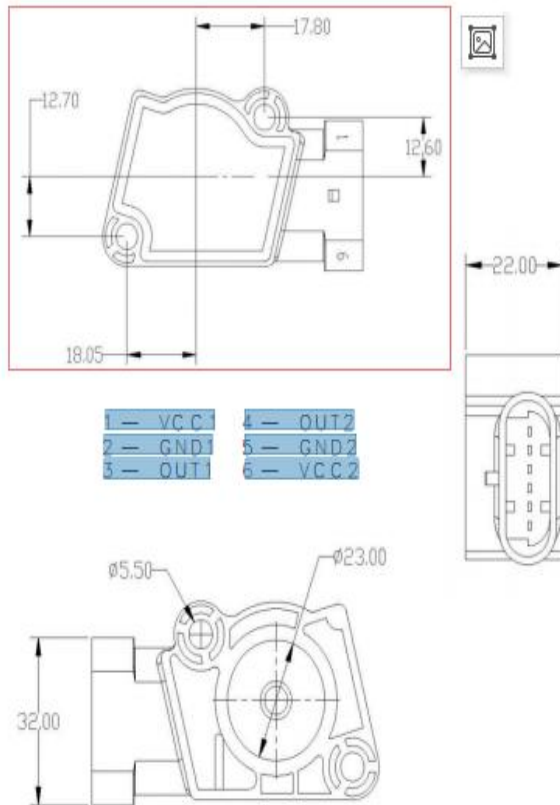
Note: Power supply voltage: 5.0V, ambient temperature: 25°C

product model

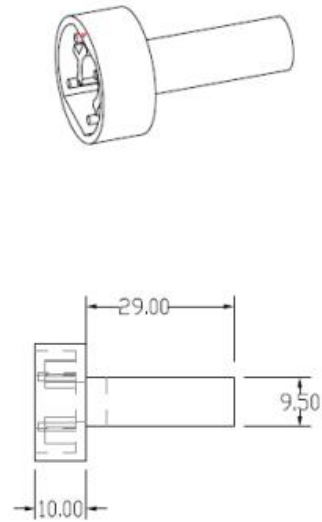


Installation size

Angle-housing



Magnet actuator



深圳市慧传科技有限公司

Shenzhen Huichuan Technology Co., Ltd.

地址：深圳市宝安区72区宝石路4-2 四楼

Address: 4th Floor, 4-2, Gem Road, 72 District, Baoan, Shenzhen

mailbox: ben@hycosensor.com

Shenzhen: +86 13751045330

Shanghai: +86 18616835451

Smartsensor