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Home / ROTARY ENCODERS / Angular Position Sensors / Miniature Non-Contact Angle Sensor P3022 Series

Miniature Non-Contact Angle Sensor P3022 Series

- Resolution: $360^{\circ}/4096$ (12 bits) $\approx 0.088^{\circ}$
- Working voltage: $5V \pm 10\%$
- Working current: $< 13.5mA$
- Protection class: IP40
- Mechanical life: > 50 million revolutions
- Mass: about 25 grams
- Product name: Miniature non-contact angle sensor P3022 series
- Can be customized on request





Description

Reviews (0)

Description

P3022series of miniature non-contact angle sensor works through the principle of electromagnetic induction, the angle is converted to an electrical signal. When the rotation angle of the object passed to the axis of rotation sensors, P3022 angle sensor outputs an electrical signal that is proportional to the rotational angle.

This series of products using hard aluminum alloy material shell; Hall-type non-contact technology, P3022 series angle sensor has the advantages of non-contact angle sensor, and the use of high-quality imported high quality stainless steel high speed bearing member, so that it reduced frictional resistance when measuring the minimum, not because of the wear surface measurement component caused decrease measurement accuracy, long service life theoretically unlimited; the product compact structure, small size, optional strong, high resolution, smooth rotation dynamic noise in addition to the excellent performance suitable for electromagnetic interference outside the water, oil, vibration, shock and other harsh industrial environment, is a cost-effective non-contact angle sensor.

Feature

Small size, the maximum outer diameter of 22mm

Full 360 ° no dead angle measurement

Linearity is $\pm 0.3\%$ F.S.

Output signal 0-5V DC

Supply voltage 5V DC

Angle Direction: Clockwise rotation of the rotary shaft

Long product life.

Small rotational torque

Aluminum shell

Easy to install

Application

Manipulators

Textile Machinery

Construction machinery

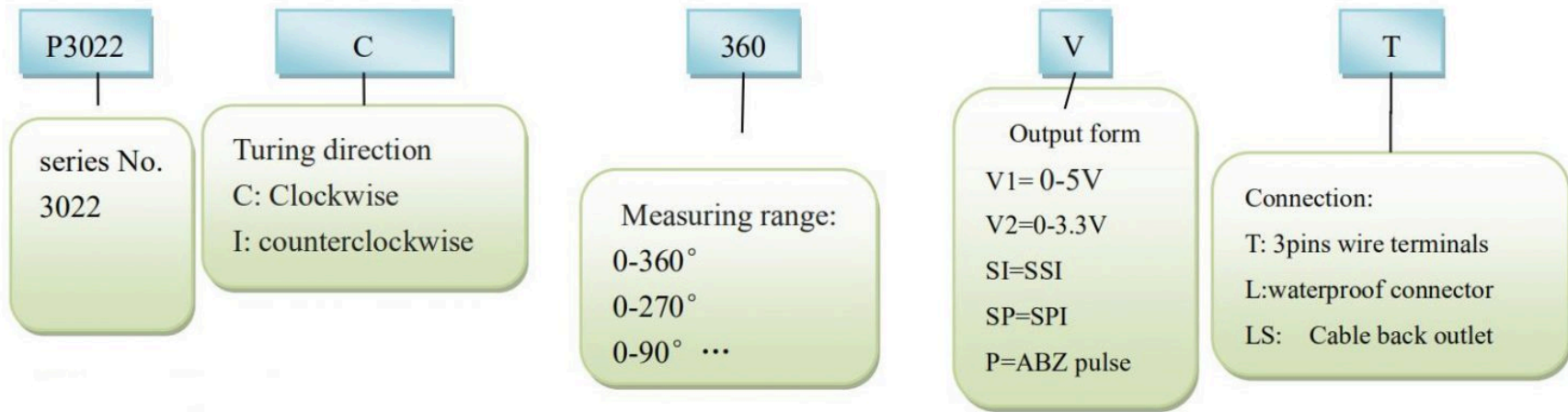
Hydraulic cylinders Systems

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medical instruments

Model



Electrical spec.

Effective electrical angle	360°
Resolution	360°/4096 (12位) $\approx 0.088^\circ$
Linearity	Standard: 0.3%; customizable precision: 0.2%;
Update Speed	0.6ms / 0.2ms (high-speed)
Operating voltage	5V \pm 10%
Output signal	0 ~ 5V (ratio)
Operating Current	<13.5mA
Maximum and minimum output deviation	<1%·VCC
Load resistance	>10K Ω

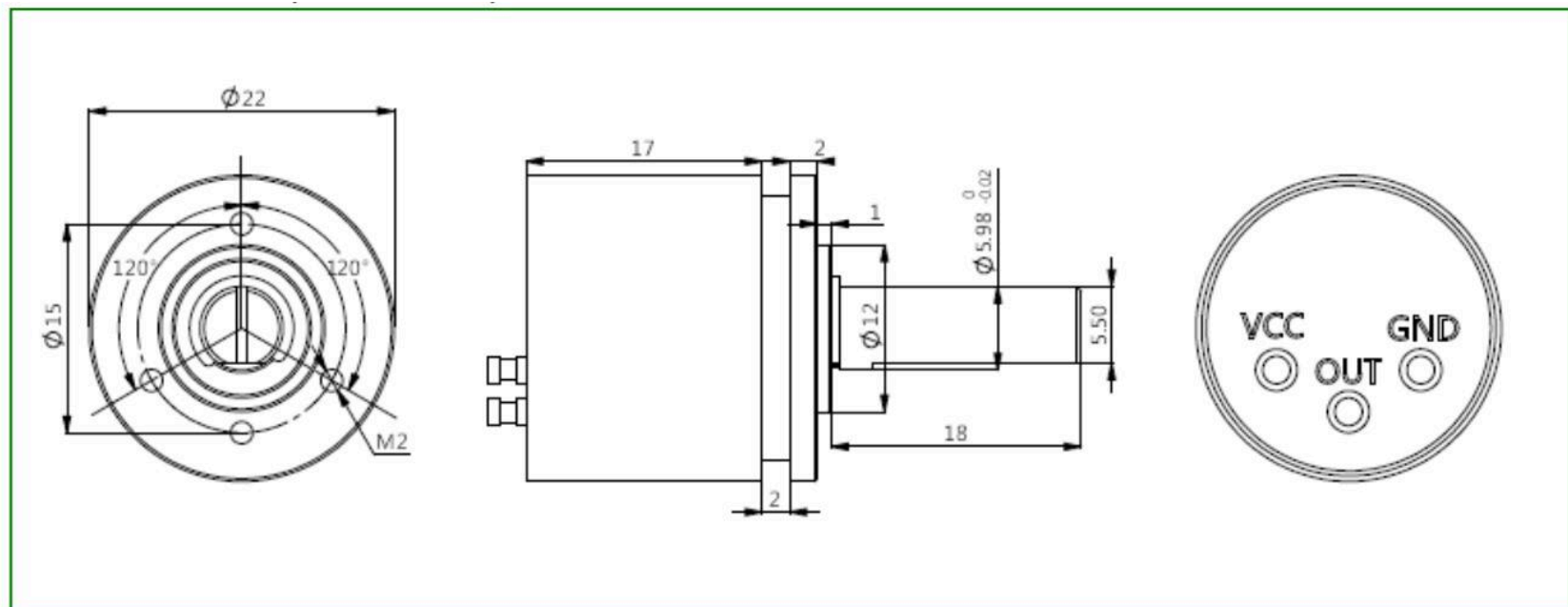
Mechanical spec.

Mechanical angle	360° (No stop)
Protection class	IP40
Working temperature	-40°C ~ +80°C
Storage temperature	-40°C ~ +80°C
The rotational torque	<5mN·m
Mechanical life	>50 million transfer
Weight	About 25g
Housing	Anodized aluminum surface
Shaft	Stainless steel
Electrical terminals	Thick gold plated brass terminals

Terminal Definition

VCC	OUT	GND
Positive power supply	Output signal0-5V DC	Negative public

Dimensions(mm)



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