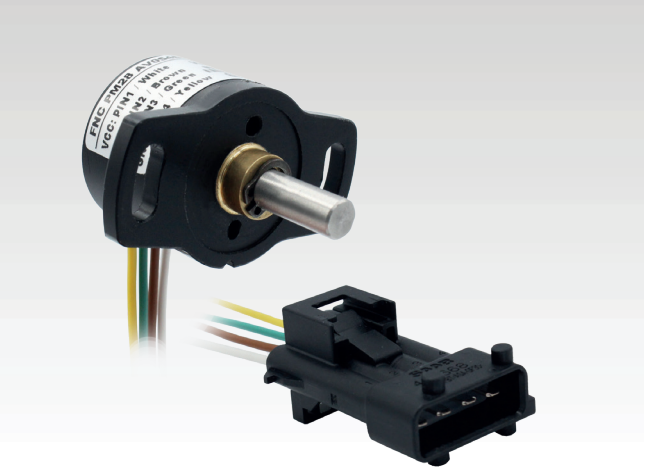
Absolute Rotary Encoder

FNC PM28 SinCos



Features

- **Non-Contact Magnetic Sensing Technology**
- **360° Rotary Angle Measurement**
- **SinCos Output**
- **Contactless Operation**
- **Multiple Shaft Configurations**
- **Designed for Motor Feedback Applications**

Applications

- Electric Motor Position Feedback
- Industrial Automation
- Rotary Actuators
- Valve Position Control
- Robotics
- Mobile Machinery
- Mechanical Positioning Systems

Technical data - electrical ratings

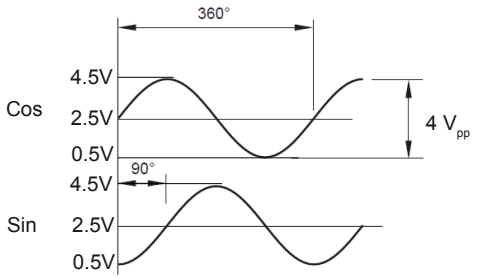
Measurement Range	0…360°
Resolution	0.1°
Accuracy	<±0.5°
Repeatability	≤ ±0.1°
Response Frequency	≥100 Hz
Maximum Speed	Up to 3,000 rpm
Operating Temperature	-20…+85 °C
Protection Rating	IP54
Supply Voltage	5-30 VDC
Startup Time	≤100 ms
Reverse Polarity Protection	Yes
Overvoltage Protection	Yes
Short-Circuit Protection	Yes

Technical data - mechanical design

Dimensions	ø28 mm
Mount Diameter	38 mm
Materials	Housing: ABS (plastic) Shaft : Stainless Steel

Pulse Diagram

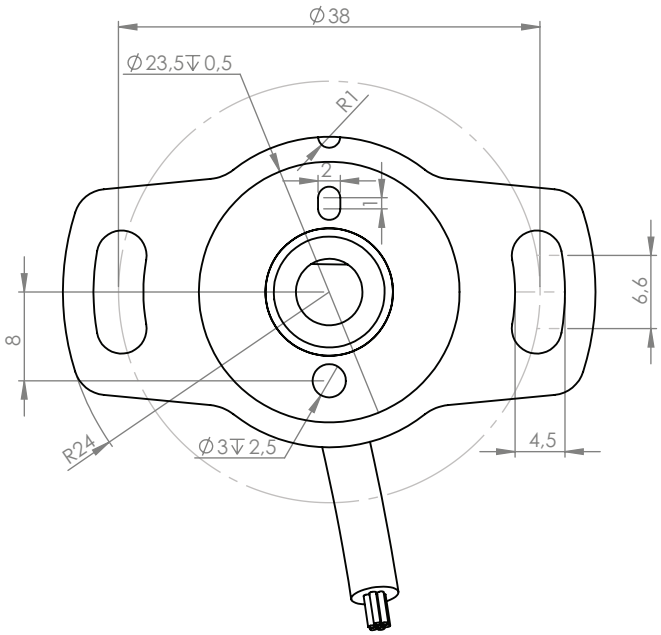
SinCos Output Graph

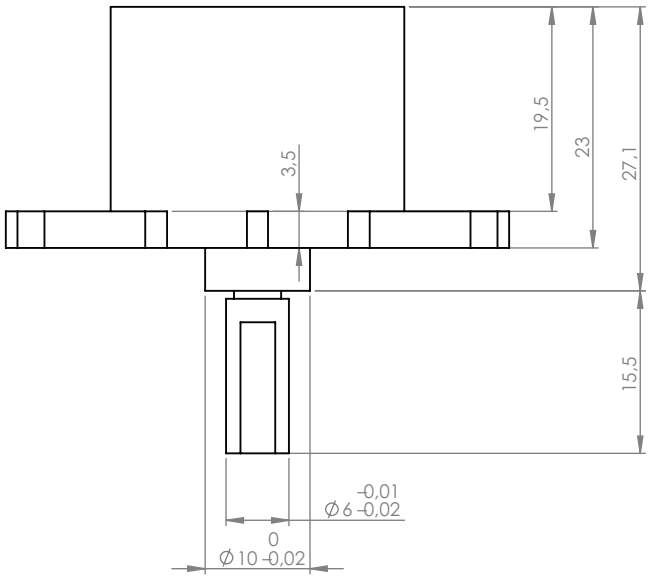


FNC PM28 SinCos

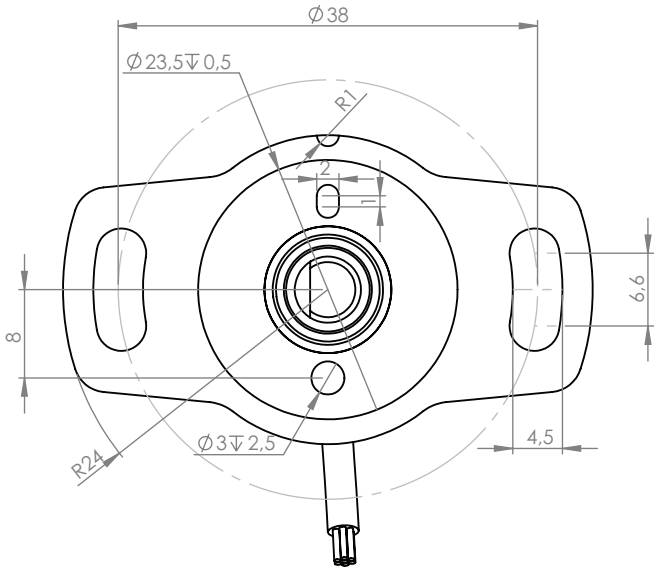
Mechanical Dimensions

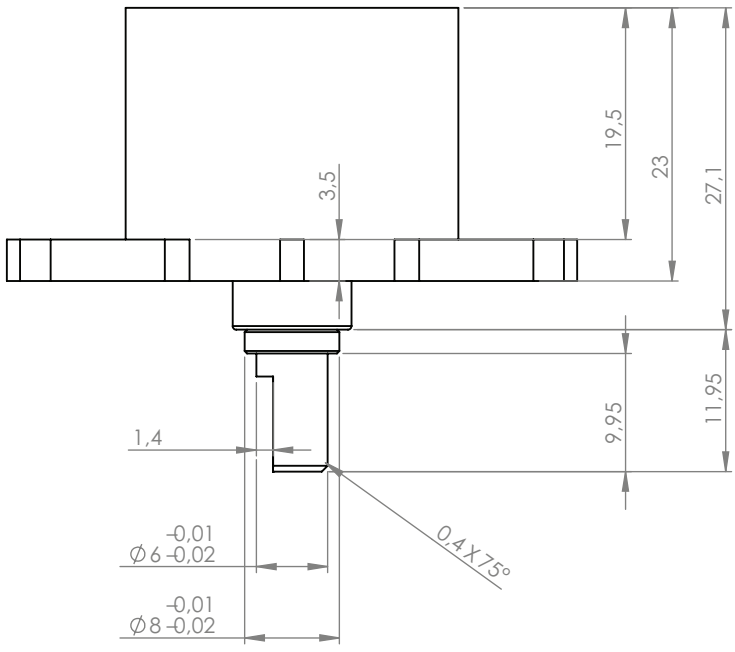
1 **6 mm D form shaft version**





2 **6 mm shaft, 8 mm notch version 6L12**

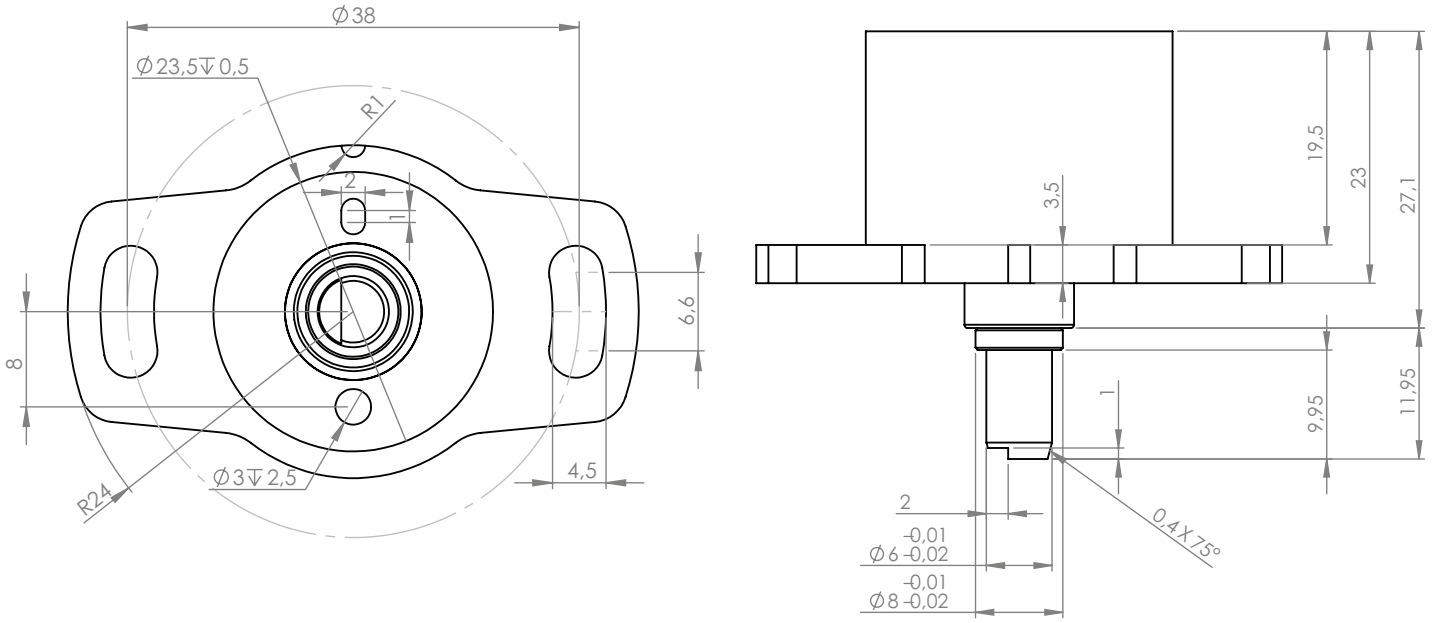




FNC PM28 SinCos

Mechanical Dimensions

3 **6 mm shaft, 1 mm notch version 6L12**

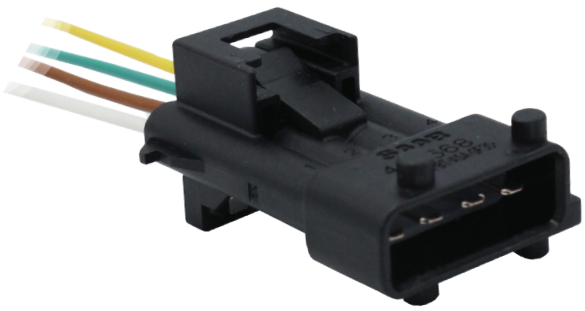


Absolute Rotary Encoder

FNC PM28 SinCos

Cable Connection

Function	Color	Pin
Supply	White	pin 1
GND	Yellow	pin 4
Sin	Brown	pin 2
Cos	Green	pin 3



Part Number

FNC | PM | 28 | 1 | SC | 360 | S1 | 5V | C | – | R08

Housing
28 : 28 mm

Shaft version
1 : 6 mm D type version
2 : 6 mm shaft, 8 mm notch version
3 : 6 mm shaft, 1 mm notch version

Interface
SC : Sine cosine

Measuring Range
360 : 360° standard
xxx : optional 5° to 350° measuring range (please select)

Electrical Connections:
R08 : 8 cm cable
R08SCK : 8 cm cable with socket

Direction of Rotation
C : Clockwise
CC : Counter clockwise

Supply Voltage
5V : 5V
30V : 30V

Output Type
S1 : 0,5V - 4,5V Sine cosine