Absolute Rotary Encoder

FNC PM28 INCREMENTAL



Features

- **Non-Contact Magnetic Sensing Technology**
- **360° Rotary Angle Measurement**
- **Incremental 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 ±5
Startup Time	≤100 ms
Reverse Polarity Protection	Yes
Overvoltage Protection	Yes
Short-Circuit Protection	Yes

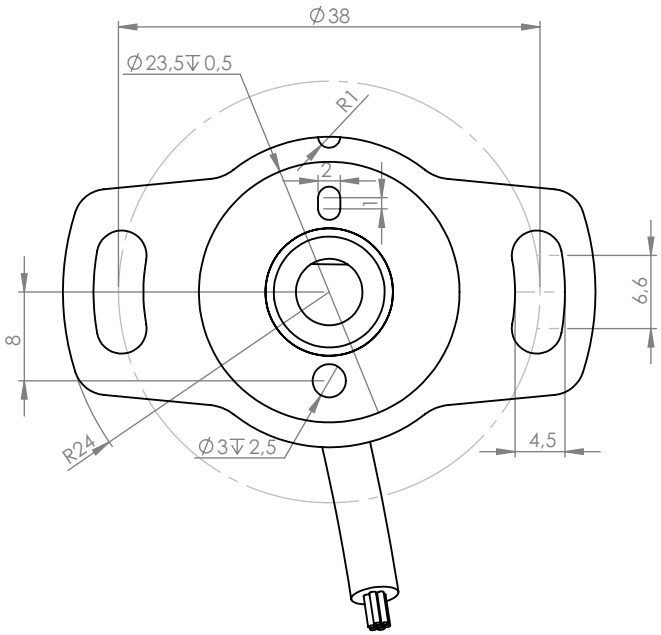
Technical data - mechanical design

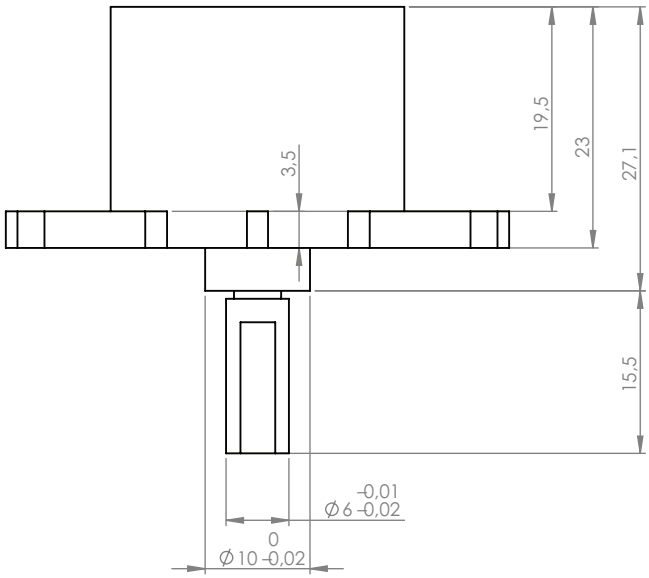
Dimensions	ø28 mm
Mount Diameter	38 mm
Materials	Housing: ABS (plastic) Shaft : Stainless Steel

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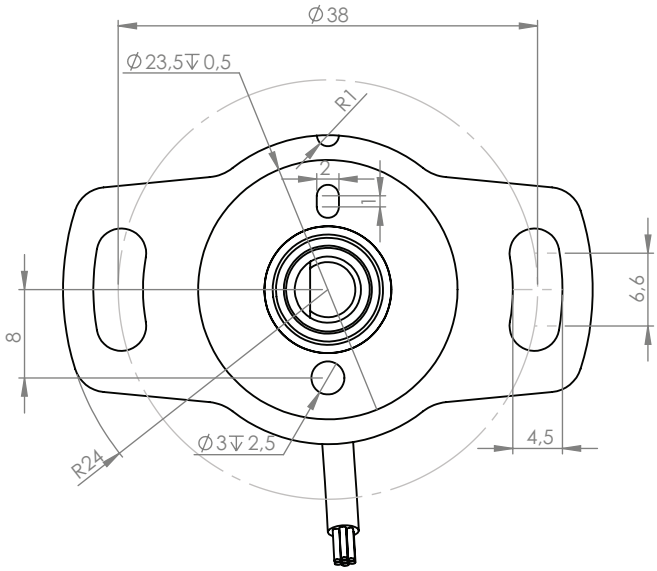
Mechanical Dimensions

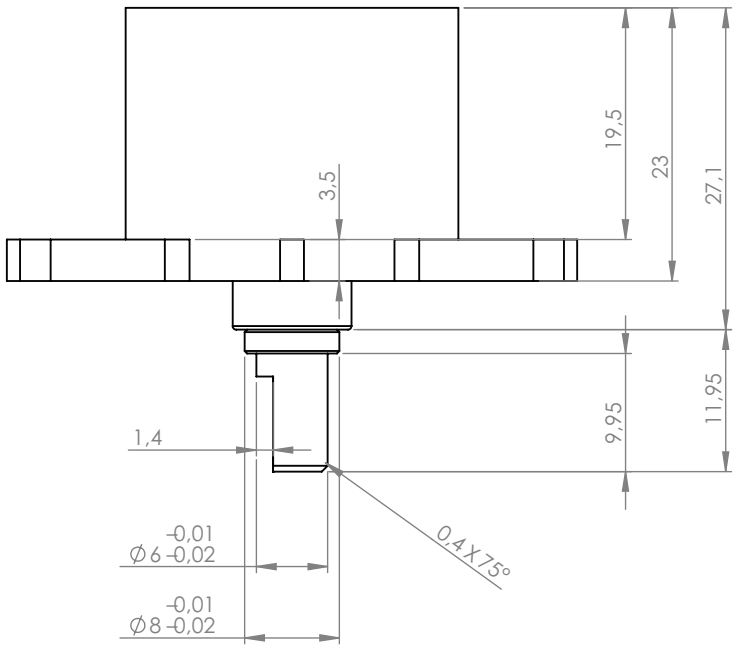
1 **6 mm D form shaft version**





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

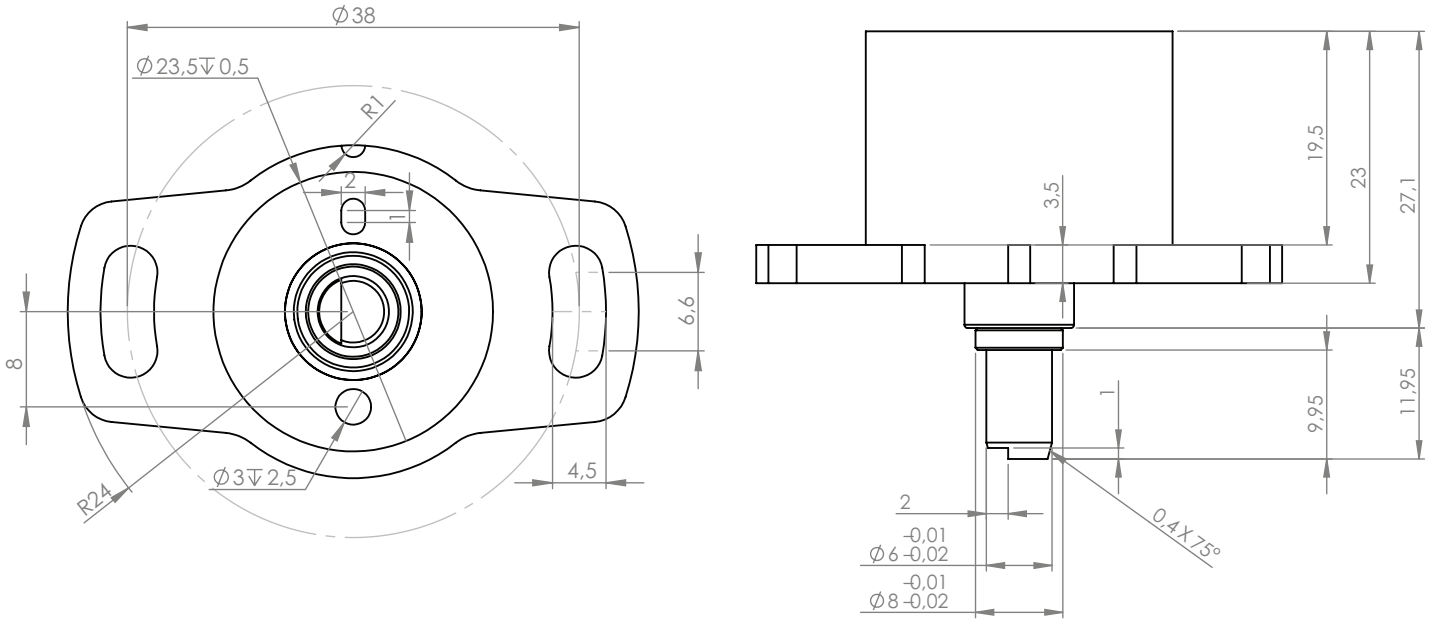




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Mechanical Dimensions

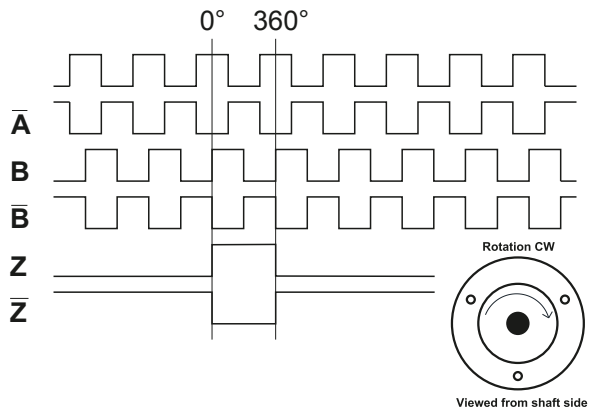
3 **6 mm shaft, 1 mm notch version 6L12**



Contactless Rotary Potentiometer

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Pulse Diagram



Cable Connection

Function	Color	Renk
+VB	Brown	Kahve
GND	White	Beyaz
A	Green	Yeşil
A'	Red	Kırmızı
B	Yellow	Sarı
B'	Pink	Pembe
Z	Gray	Gri
Z'	Blue	Mavi
Shield	Black	Siyah

Encoder Part Number

FNC | PM | 28 | 1 | IN | 360 | 1024 | 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
IN : Incremental

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

Electrical Connections:
R08 : 8 cm cable

Direction of Rotation
C : Clockwise
CC : Counter clockwise

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

Output Type
1024 : 1024 ppr
up to xxx por options