

Sumtak MSK-015-1024 Magnetic Encoder

Prepared by EncoderMarket

www.EncoderMarket.com | info@encodermarket.com



MSK-015-1024
Sumtak
Magnetic
Encoder



1. Product Overview

The Sumtak MSK-015-1024 is a high-performance incremental magnetic encoder engineered for precise position and velocity detection. It provides 1024 pulses per revolution with a compact magnetic sensing structure that ensures durability, low maintenance, and long service life. Its 5V DC input and high-frequency response make it ideal for modern servo systems, robotics, and CNC automation.

2. Electrical Specifications

Parameter	Specification
Resolution	1024 PPR (Pulses Per Revolution)
Power Supply	DC 5V \pm 5%
Current Consumption	Max. 100 mA
Output Type	TTL / Line Driver
Output Phase	A, B, Z (Quadrature Output)
Frequency Response	Max. 100 kHz

3. Mechanical Specifications

Parameter	Specification
Shaft Type	Hollow Shaft (Ø15 mm)
Housing Material	Aluminum Alloy
Mounting Method	Flange Mount
Max. Rotational Speed	6000 RPM
Moment of Inertia	1.5×10 ⁻⁴ kg·m ²
Weight	Approx. 120 g

4. Environmental Conditions

Parameter	Specification
Operating Temperature	-10°C to +85°C
Storage Temperature	-20°C to +100°C
Vibration Resistance	10–2000 Hz, 20 G
Shock Resistance	100 G for 6 ms
Protection Grade	IP65 (IEC Standard)

5. Output Waveform and Timing

The MSK-015-1024 outputs differential A, B, and Z signals with a 90° phase difference between A and B channels. Each revolution includes one Z reference pulse. This waveform allows for accurate angular and speed feedback even under high-speed rotation.

6. Dimensions and Mounting

The encoder features a compact magnetic sensor housing with a 15 mm hollow shaft design. Mounting holes are designed for M6 screws, allowing easy integration with motor shafts and couplings. The rectangular structure minimizes axial misalignment and provides stable signal output.

7. Typical Applications

• Servo Motors • CNC Machine Tools • Robotics and Automation • Textile Machinery • Industrial Feedback Systems

8. Contact Information

EncoderMarket Email: info@encodermarket.com Website: www.EncoderMarket.com
Address: Istanbul, Türkiye