

# SERIE MIE48

## MAGNETIC INCREMENTAL ENCODER

- Resolution up to 1.024 pulses per turn
- Non-contacting measuring system
- 24 VDC Push-Pull
- High protection class IP65
- Compact dimensions
- Axial connection M12 4p






Magnetic Encoder



Incremental Encoder



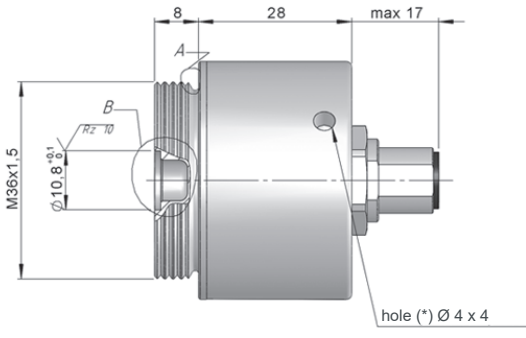
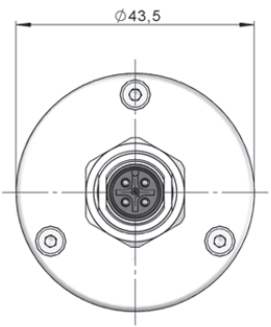
Vibration and shock resistant



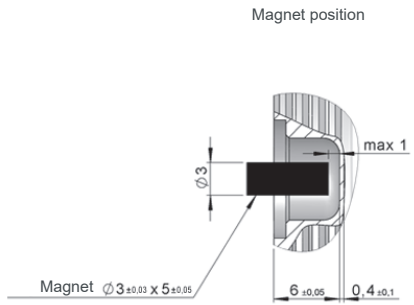
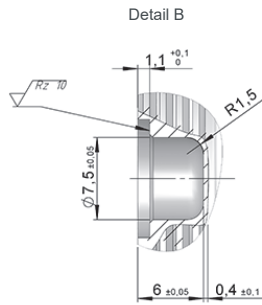
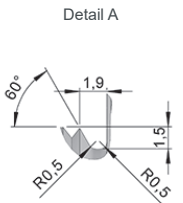
IP65



Express Delivery



(\*) To mount the encoder with the machine



### REFERENCE Reference example: MIE48-1221-512

Serie	Magnet	Output signals	Connection	Power Supply / Electronic output	Resolution	Special customer
MIE48 -	□	□	□	□ -	□ □ □ □	. □ □ □ □

1. Ø 3 x 5 mm      2. A+B      2. Axial connection M12 4p      1. 5...30 VDC / Push-Pull      32, 64, 128, 256, 512, 1024

**Order your reference Step file 3D**

[info@encoderhohner.com](mailto:info@encoderhohner.com)  
service available in 24 h

# SERIE MIE48

## MAGNETIC INCREMENTAL ENCODER

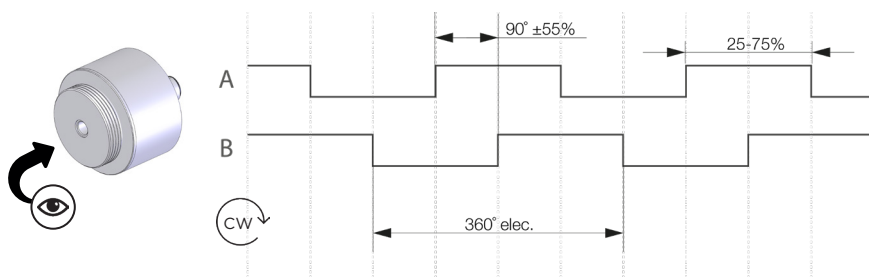
### MECHANICAL SPECIFICATIONS

Materials	Cover: AISI 304 Housing: AISI 304. Option 16MnCr5 or AISI 316 (1.4401) or Aluminium EN-AW 6082
Maximum number of revolutions permitted mechanically	5000 rpm
Shaft diameter (support of magnet)	∅ 6 mm
Housing fixing	M36 x 1,5
Lateral displacement	±0.2 mm Max.
Radial displacement	±3°
Magnet	∅ 3 (±0,03) x 5 (±0,05) mm (Neodymium)
Magnet diameter	3 to 6 mm
Protection against dust and splashes according to DIN EN 60529	IP65
Operating temperature range	-20°C to +85°C
Vibration according to DIN EN 60068-2-6	100 m/s <sup>2</sup> (10Hz...2000Hz)
Shock according to DIN EN 60068-2-27	1000 m/s <sup>2</sup> (6ms)
Connection	Axial connection M12 4p (Male thread)

### ELECTRICAL SPECIFICATIONS

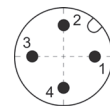
Number of pulses per turn	32, 64, 128, 256, 512, 1024 ppr
Angular resolution	0,1°
Power supply	5..30VDC
Electronic Output voltage	Push-Pull
Output channels	A, B
Sensor	Hall
Short circuit protection	Yes
Reverse polarity protection of power supply	Yes
CE requirements	according to EN61000-6-1, EN61000-6-3, EN61000-4-8

### PULSE DIAGRAM



Channel A leads (90° electric) channel B, view from the shaft, shaft rotating clockwise

### CONNECTION



	Connector M12 4p CCW
GND	3
VCC	1
A	2
B	4