



# SERIE MIE

## MAGNETIC INCREMENTAL ENCODER

- Non-contacting measuring system
- Easy assembly
- 5...30 VDC Push-Pull not differential
- High protection class IP67
- Compact dimensions
- For applications under possible adverse ambient conditions (vibrations, humidity, dust, etc.)



Magnetic Encoder



Incremental Encoder



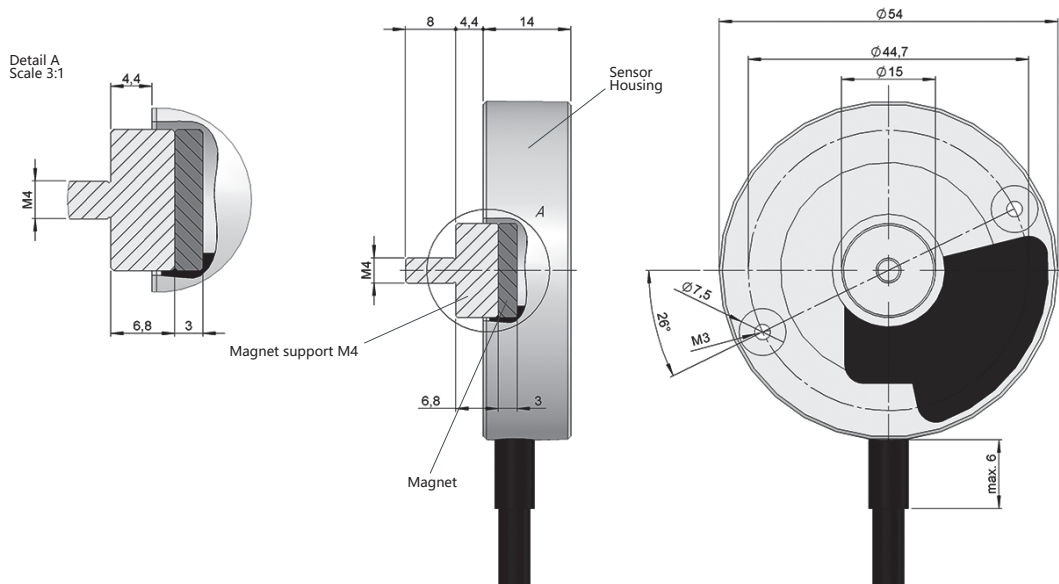
Vibration and shock resistant



IP 67



Express Delivery



Drawing mechanical option type 01, connection type 01

### REFERENCE

Reference example: MIE-0102-001

Serie	Mechanical option	Connection	Resolution	Special Customer
MIE -	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> -	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	01. Ø 15 x 6.8 mm	01. Radial cable (2 meters) 02. 150 cm cable + connector M8 3p		

Order your reference  
Step file 3D

[info@encoderrhohner.com](mailto:info@encoderrhohner.com)

service available in 24 h



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## MAGNETIC INCREMENTAL ENCODER

### MECHANICAL SPECIFICATIONS

Materials	Housing: Aluminium Shaft: PET (Polyethylene Terephthalate)
Maximum number of revolutions permitted mechanically	12000 rpm
Shaft diameter (support of magnet)	15 mm
Shaft fixing	M4
Housing fixing	2 screws M3
Permitted misalignment	±0.5 mm axial, ±1 mm radial
Protection against dust and splashes according to DIN EN 60529	IP67
Weight aprox.	0.3 Kg
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)
Radial connection	2 meters cable (other cable lengths available or connector mounted at the end of the cable, upon request)

### ELECTRICAL SPECIFICATIONS

Measuring range	0...360°
Resolution	1 ppr
Power supply	5...30 VDC
Consumption	< 20 mA (without load)
Reverse polarity protection of power supply	Yes
Magnet	Ferrite
Sensor	Hall

### OUTPUT SIGNALS

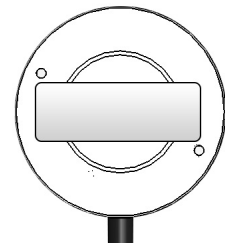
Electronic Output voltage	Push-Pull not differential
“High” signal level (VOH)	> VCC -3 VDC
“Low” signal level	< 2.5 VDC
Frequency	≤ 20 kHz
Duty cycle signal	180° ± 18°
Length of cable allowed	50 m
Max. load capability / channel	30 mA
Output channels	A
Short circuit protection	No

### CONNECTION



	Cable	Connector
	5x0.14 95.0008051	M8 3p
GND	White (WH)	3
+UB	Brown (BN)	1
A	Green (GN)	4

### LABEL

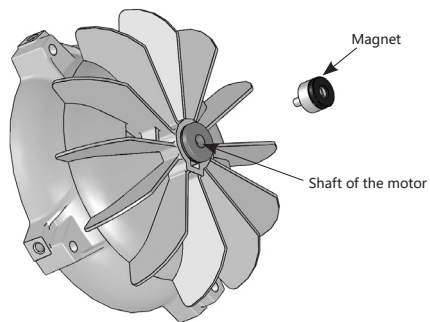


Label dimensions: 45 x 15 mm

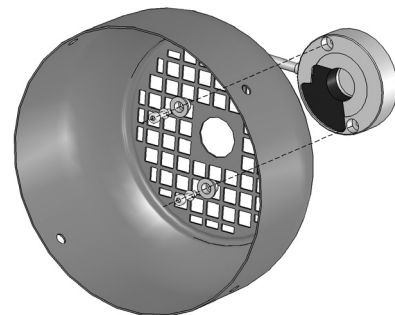
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## MAGNETIC INCREMENTAL ENCODER

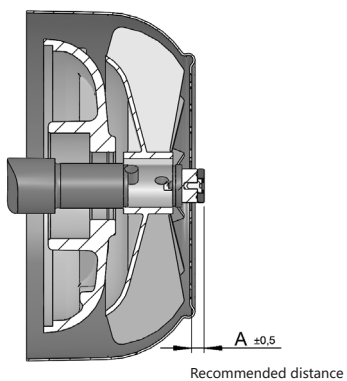
### ASSEMBLY INSTRUCTIONS



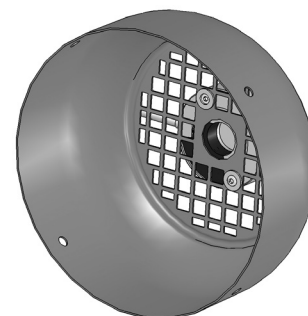
- 1) Required hole at the center of the shaft (M4 x 10 mm).
- 2) Assembly the magnet on the shaft of the motor (max. 0,3 Nm). Use retainer threads, with a flat screwdriver according to ISO 2380 (M3 Screw).



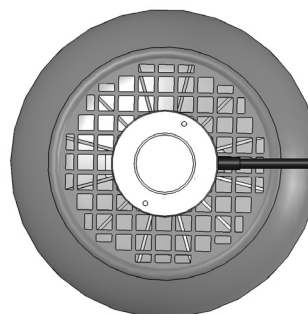
- 4) Extract cover of the motor.
- 5) Assembly the screws + washer and ferrule for the inner side of the cover.



- 3) Put the cover on the motor and check the distance between magnet and end of the cover.



- 6) Thread screws to the sensor (max. 0.9 Nm).



- 7) Check that the turn is free of contact between parts.