

SERIE MIE

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 ² (10Hz...2000Hz)
Shock according to DIN EN 60068-2-27	1000 m/s ² (6ms)
Radial connection	2 meters cable (other cable lengths available or connector mounted at the end of the cable, upon request) Female connector not included

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

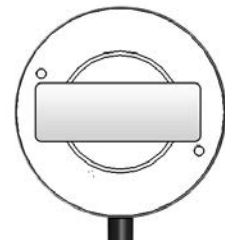
Electronic Output voltage	Push-Pull not differential
"High" signal level (VOH)	> VCC -3 VDC
"Low" signal level	< 2.5 VDC
Frequency	≤ 20 kHz
Duty cycle signal	180° ± 18°
Length of cable allowed	50 m
Max. load capability / channel	30 mA
Output channels	A
Short circuit protection	No

CONNECTION



	Cable	Connector
	5x0,14 95.0008051	M8 3p
GND	White	3
VCC	Brown	1
A	Green	4

LABEL

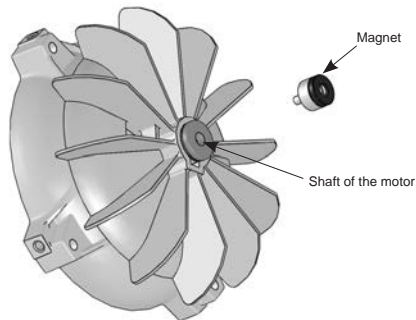


Label dimensions: 45 x 15 mm

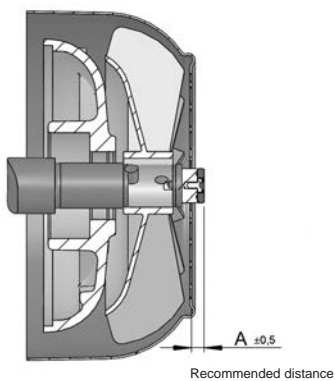
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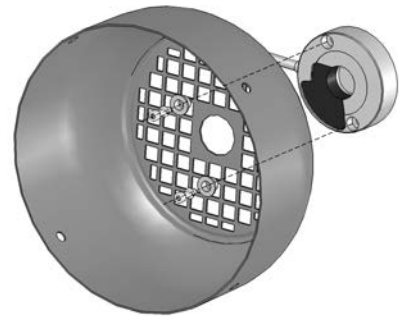
ASSEMBLY INSTRUCTIONS



- 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).



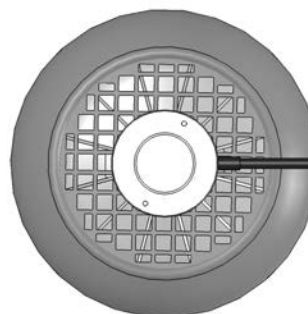
- 3) Put the cover on the motor and check the distance between magnet and end of the cover.



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



- 6) Thread screws to the sensor (max. 0,9 Nm).



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

