

Encoders without bearing

Combination of sensor / magnet rotor

Resolution max. 720 ppr

MEFK 10 - EcoSpin



MEFK 10

Features

- Magnetic sensor with rotor
- Resolution max. 2880 steps
- Output signals A 90° B
- Output circuit: push-pull
- Non-contact, wear-free sensing system
- Optimal price / performance ratio
- Easy selection, installation and commissioning
- High resistant to dirt, vibrations

Technical data - electrical ratings

Voltage supply	8...28 VDC
Consumption w/o load	≤20 mA
Output frequency	≤2 MHz
Output signals	A 90° B
Output circuit	Push-pull short-circuit proof
Circuit current max.	50 mA
Voltage drop	<2 VDC (I=20 mA)
System accuracy	±0.8 °
Jitter	≤20 %

MEFK 10 - 30.5 mm

Reverse polarity protection	Yes
Resolution (steps/turn)	20...360

MEFK 10 - 56 mm

Reverse polarity protection	Yes, to GND
Resolution (steps/turn)	20...720

Technical data - mechanical design

Dimensions W x H x L	15 x 10 x 40 mm
Protection DIN EN 60529	IP 67
Working distance max.	0.6 mm
Material	Housing: PA6
Operating temperature	-25...+85 °C
Relative humidity	95 %
Resistance	DIN EN 60068-2-6 Vibration 20 g, 10-2000 Hz DIN EN 60068-2-27 Shock 100 g, 6 ms
Connection	Cable 2 m

MEFK 10 - 30.5 mm

Outer diameter magnet rotor	30.5 mm
Weight approx.	120 g

MEFK 10 - 56 mm

Outer diameter magnet rotor	56 mm
Weight approx.	170 g

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Part number

Kit with magnet rotor, 30.5 mm outer diameter

MEFK 10G24/	AXPA	
		Rotor inner diameter
		006 ø6 mm
		008 ø8 mm
		012 ø12 mm
		5Z8 ø5/8 inch
		020 ø20 mm
		022 ø22 mm
See part number (pulses)		

Kit with magnet rotor, 56 mm outer diameter

MEFK 10G24/	AXPB	
		Rotor inner diameter
		006 ø6 mm
		008 ø8 mm
		012 ø12 mm
		5Z8 ø5/8 inch
		020 ø20 mm
		1Z0 ø1 inch
		048 ø47.8 mm
See part number (pulses)		

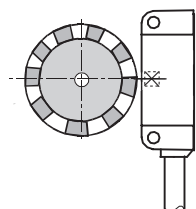
Part number (pulses)

0020 (20)	0100 (100)	0256 (256)
0032 (32)	0128 (128)	0360 (360)
0064 (64)	0200 (200)	

Part number (pulses)

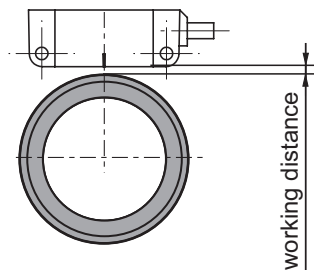
0020 (20)	0128 (128)	0500 (500)
0032 (32)	0200 (200)	0512 (512)
0064 (64)	0256 (256)	0720 (720)
0100 (100)	0360 (360)	

Mounting and direction of travel

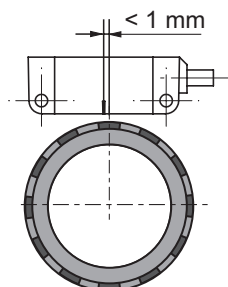


CHA is leading CHB by 90° when rotating CW.

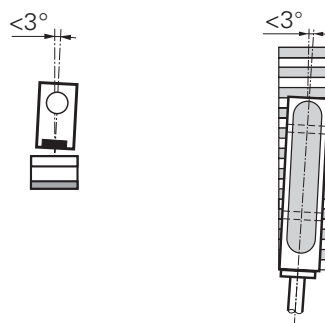
Working distance



Axial misalignment

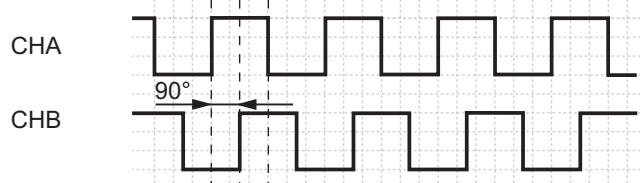


Angular misalignment



Resolution max. 720 ppr

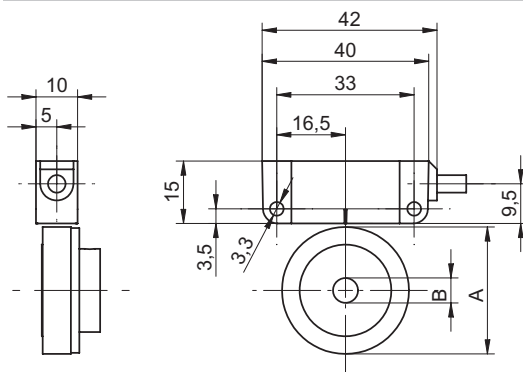
Output signals



A 90° B (2-channel)

cable color		signals
brown	BN	+Vs
blue	BU	0 V
black	BK	CHA
white	WH	CHB
cable data PUR 4 x 0.25 mm ²		

Dimensions



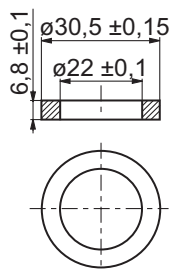
Kit consists of sensor and rotor

Encoders without bearing

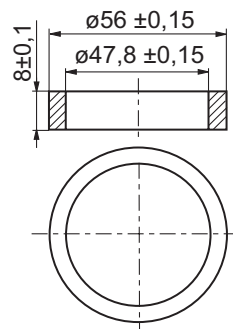
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Ring magnets

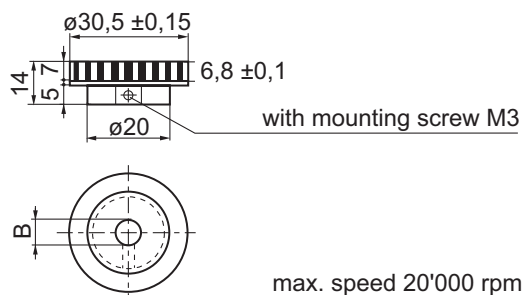


max. speed 20'000 rpm

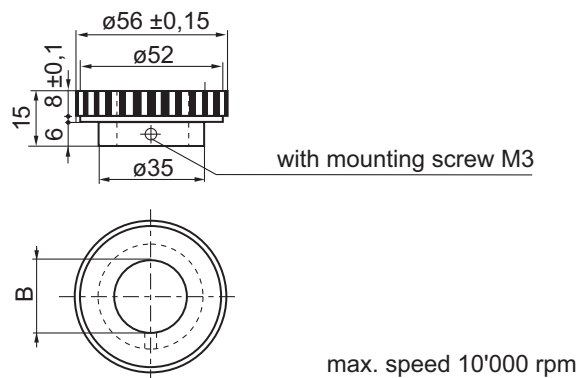


max. speed 10'000 rpm

Magnet rotors without reference magnet



max. speed 20'000 rpm



max. speed 10'000 rpm