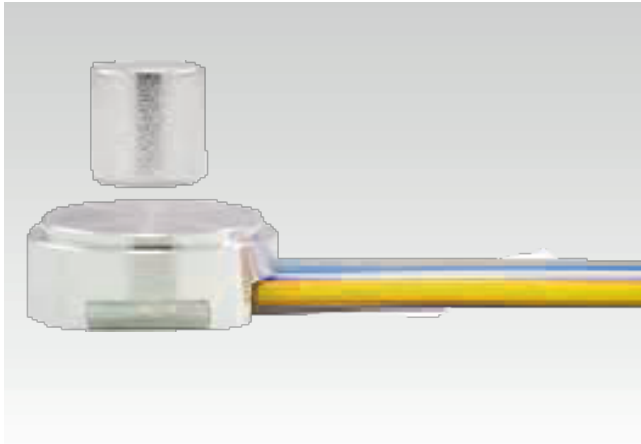


Super small non-contact rotary encoder

Resolution up to 4096 ppr



F08 Series



Features

- Miniature encoder, 8 mm diameter body
- Non-contact, bearingless design
- 3.3 or 5V power supply voltage
- High speed operation up to 200,000 rpm
- Industry standard incremental

Technical data-electrical ratings

Power supply	$V_{dd} = 3.3V \text{ or } 5V \pm 5\%$
Current consumption	Typ. 25 mA
Output signals	A, B, Z (single ended)
Resolution	32, 64, 128, 256, 512, 1024 2048, 4096 cpr
Max. speed	200,000 rpm
Accuracy	$\pm 0.3^\circ$
Hysteresis	0.17°
Temperature	$-40^\circ C \text{ to } +85^\circ C$

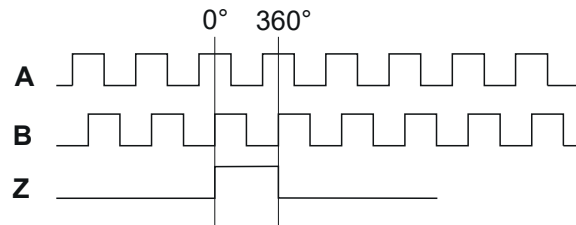
Technical data-mechanical ratings

Dimensions	8 mm
Encoder mass	<5 g (with 500 mm long wires)
Encoder housing material	Aluminum
Wire thickness	AWG28
Magnet material	NdFeB
Magnet mass	0.4 g
Storage temperature	$-65^\circ C \text{ up to } +150^\circ C$
Operating temperature	$-40...+125^\circ C$

Cable Connection

Function	Color	Renk
V_{dd}	Red	Kırmızı
GND	Blue	Mavi
A	Gray	Gri
B	Green	Yeşil
Z	White	Beyaz

Pulse Diagram



Super small non-contact rotary encoder

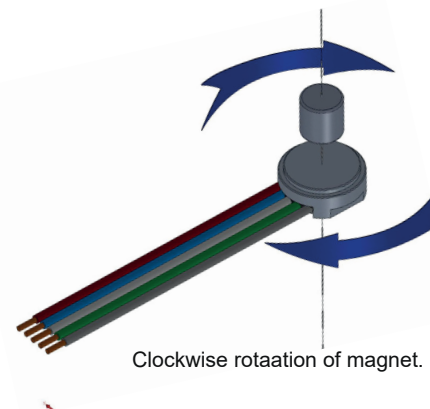
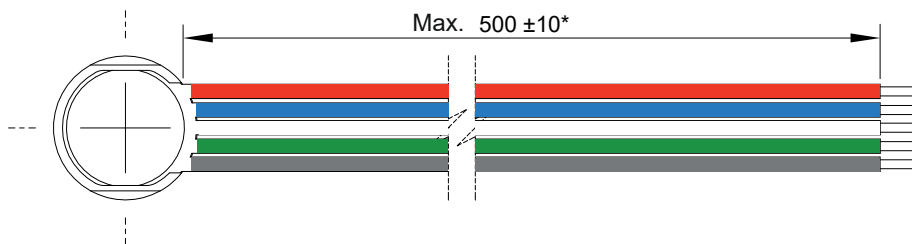
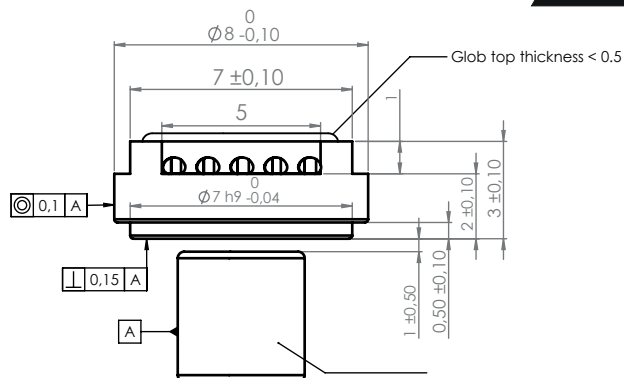
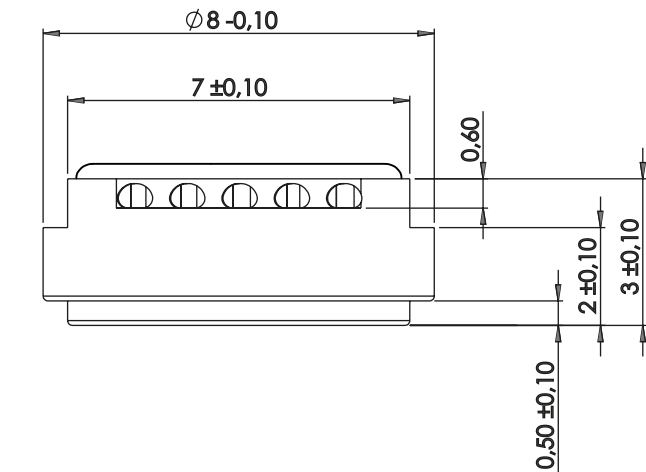
Mechanical Dimensions
Order Part Number

F08 Series

Mechanical Dimensions

Dimensions and tolerance in mm.

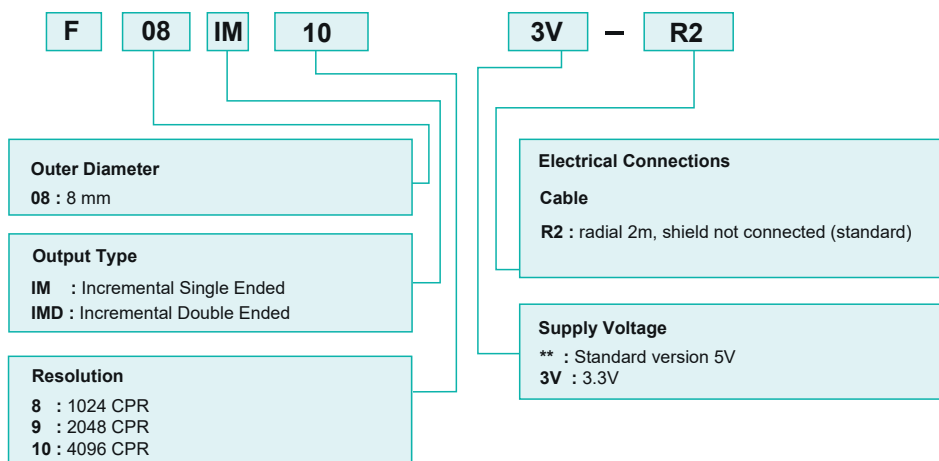
Mounting instructions



* For cable lengths above 0.5 m

** The wiring sequence is different in the 3.3V version.

Encoder Part Number



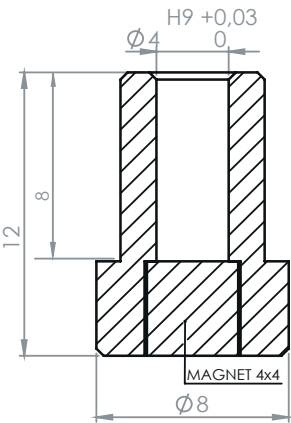
Super small non-contact rotary encoder

Magnet Options

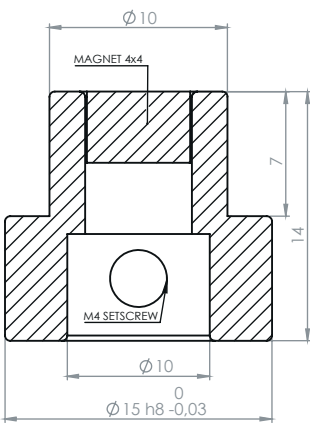


F08 Series

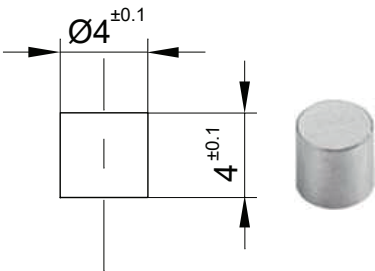
MHM 04



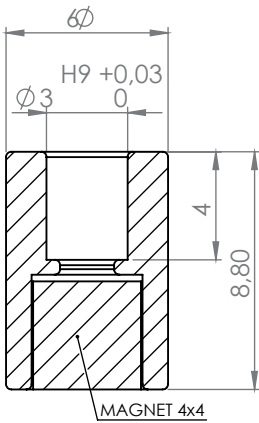
MHB 10



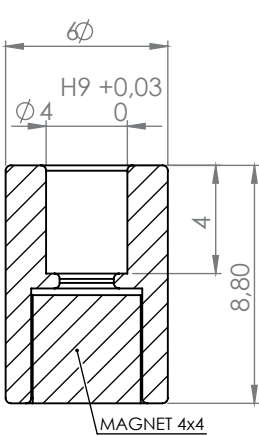
MGN44



F22M4403

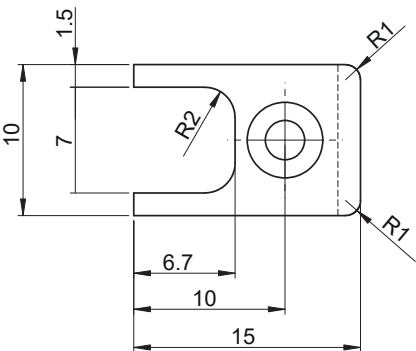


F22M4404

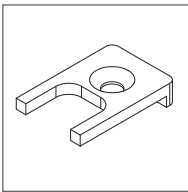


Mounting Bracket Dimensions

Dimensions and tolerance in mm.



Accessories Part Number



Mounting bracket
MKF08