

Linear & Bearingless encoders

Resolution 1...4096 pulses



FNC MBI36 Series



Features

- On-axis incremental rotary encoder
- Robust mechanical and electrical construction
- Protection up to IP67
- Up to 4096 ppr max.
- <300 kHz frequency
- Magnetic system

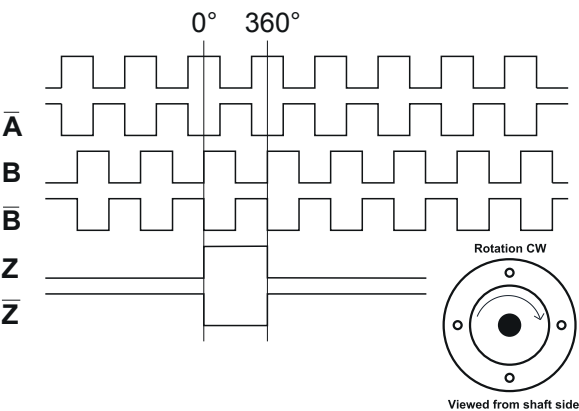
Technical data-electrical ratings

Voltage supply	4.75VDC to 30VDC 4.75VDC to 5.5VDC
Protection	Output short circuit protection. Reverse polarity protection (except 5V version)
Consumption w/o load	≤60 mA (24 VDC)
Resolution (steps/turn)	1...4096 ppr
Reference signal	Zero pulse, width 90° 180°, 360° optional
Output frequency	>200 kHz
Output signals	90° shifted A and B, Z+ inverted
Output circuit	Linedriver / RS422 Push-pull short-circuit proof NPN Open Collector
Interference immunity	DIN EN 61000-6-2
Emitted interference	DIN EN 61000-6-4
Approval	CE

Technical data-mechanical ratings

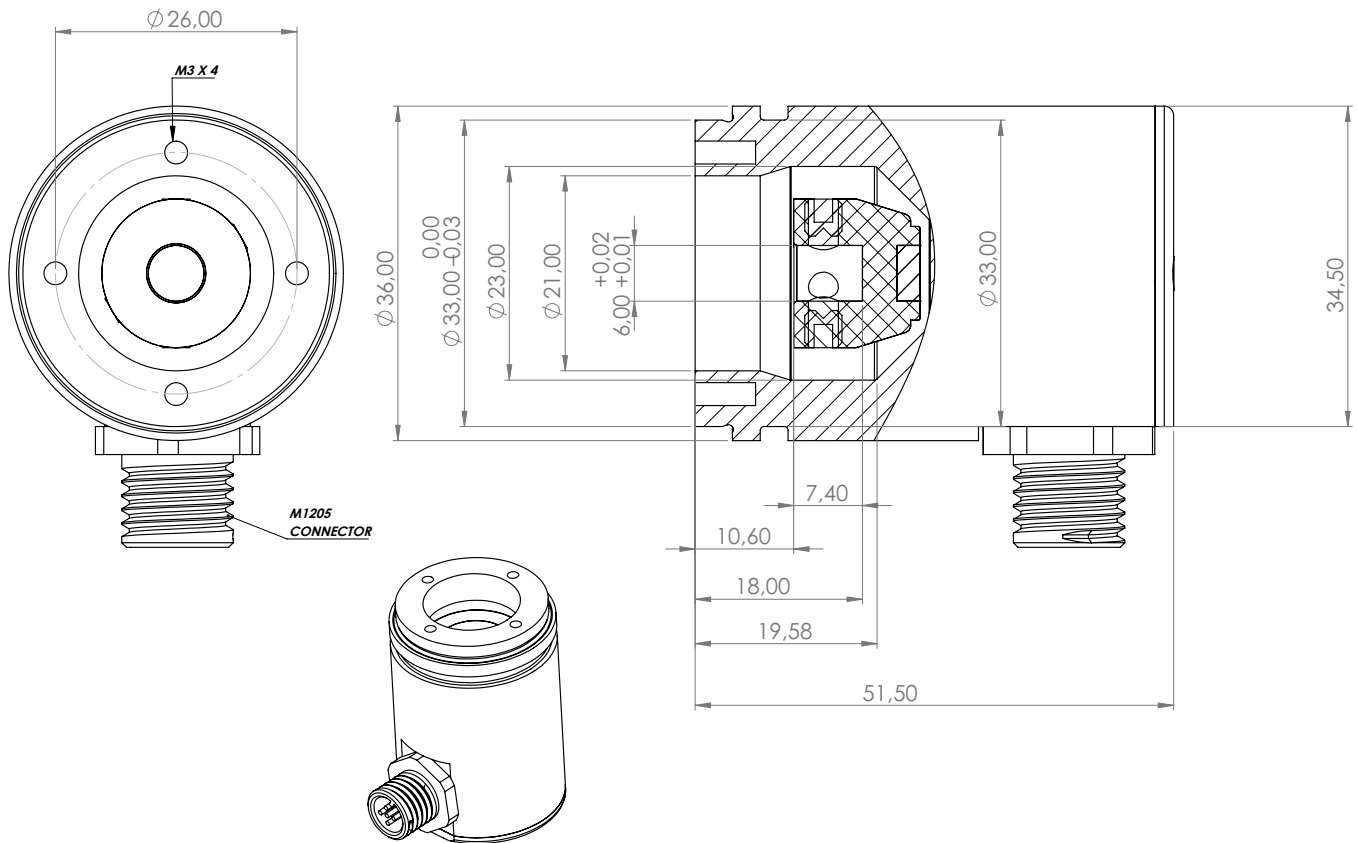
Dimensions (flange)	Ø36 mm
Protection DIN EN 60529	IP54, IP65
Operating speed	≤10.000 rpm
Materials	Housing: aluminum
Operating temperature	-20...+85°C
Storage temperature	-30°C up to +90°C
Weight approx.	350 g

Pulse Diagram

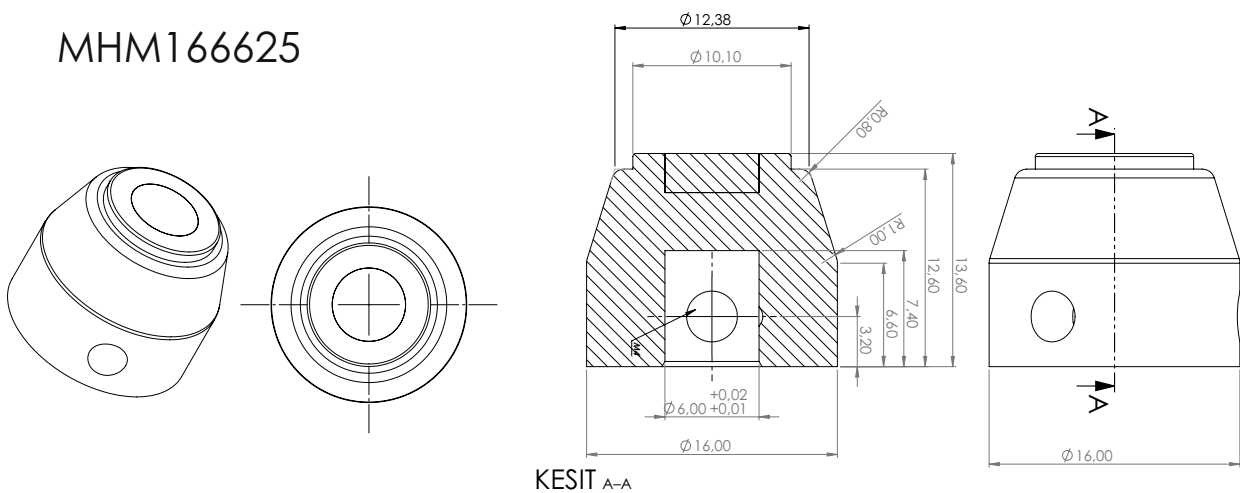


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Mechanical Dimensions



MHM166625



Incremental encoders

Cable Wiring, Part Number



FNC MBI36 Series

Cable Connection

Function		Color	Renk	Farbe	Цвет	颜色
+VB	●	Brown	Kahve	Braun	Коричневый	棕色的
GND	○	White	Beyaz	Wei	Белый	白色的
A	●	Green	Yeil	Grn	Зеленый	绿
A'	●	Red	Kırmızı	Rot	Красный	红色的
B	●	Yellow	Sarı	Gelb	Желтый	黄色的
B'	●	Pink	Pembe	Rosa	Розовый	粉色的
Z	●	Gray	Gri	Grau	Серый	灰色的
Z'	●	Blue	Mavi	Blau	Синий	蓝色的
Shield		Black	Siyah	Schwarz	Чернить	黑色的

Connector Connection

Function	R1205	R1208
+VB	pin 1	pin 1
GND	pin 2	pin 2
A	pin 3	pin 3
A'		pin 4
B	pin 4	pin 5
B'		pin 6
Z	pin 5	pin 7
Z'		pin 8
Connector		
Pin Design		

** for other connector options visit www.fenac.com.tr

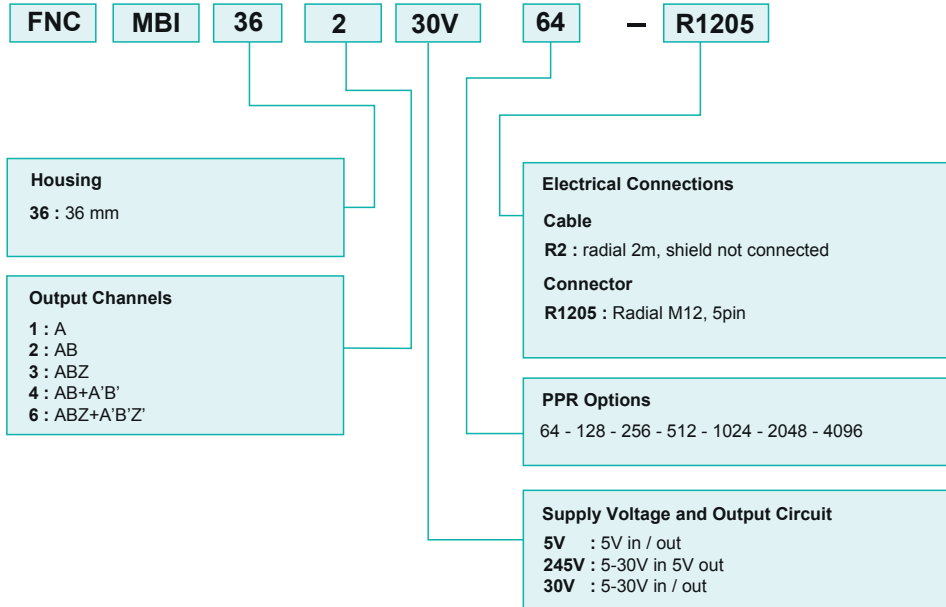
Incremental encoders

Cable Wiring, Part Number



FNC MBI36 Series

Encoder Part Number



Magnet Holder Part Number

MHM166625 : Magnet Holder Big Version