

Incremental encoders

Resolution 1...4,096 pulses



FNC 24E Series



Features

- Industry 24 mm standard size, end hollow shaft
- Robust mechanical and electrical construction
- Protection up to IP67
- Up to 4,096 ppr max.
- <300 kHz frequency

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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	≤30 mA (24 VDC)
Resolution (steps/turn)	1...4,096 ppr
Reference signal	Zero pulse, width 90° 180°, 360° optional
Optoelectronic life time	100.000 (min)
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

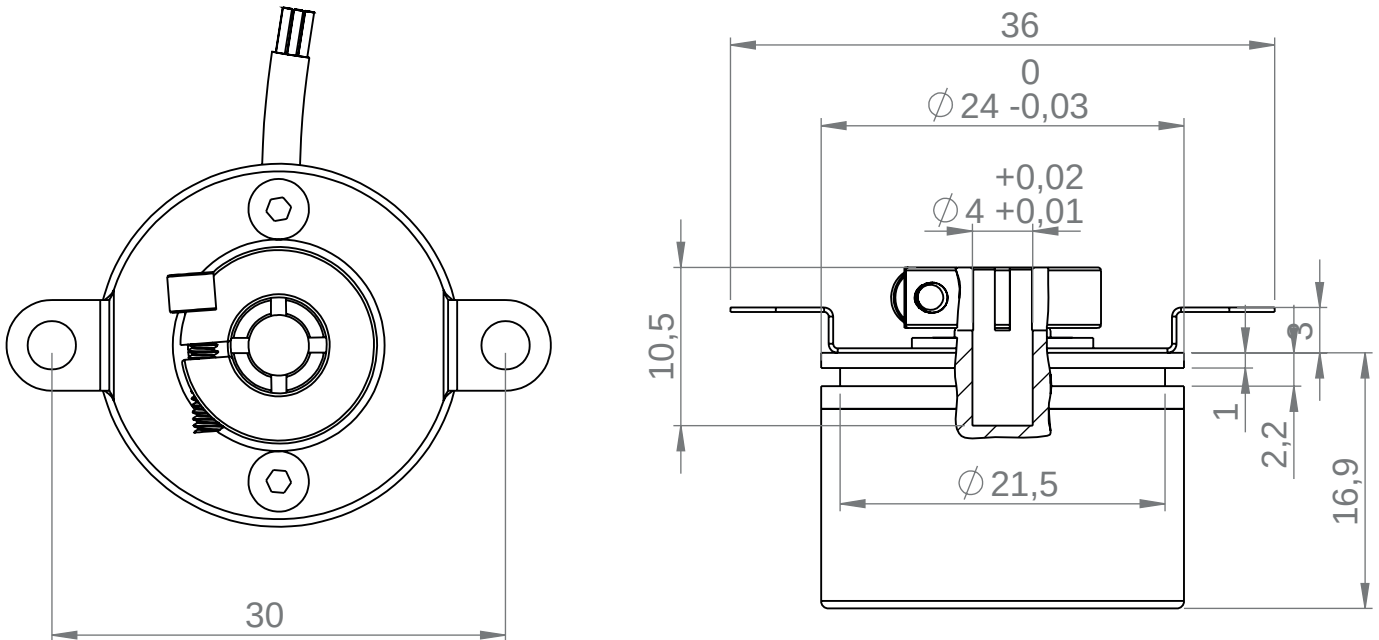
Technical data-mechanical ratings

Dimensions (flange)	Ø24 mm
Shaft loading	≤20 N axial ≤30 N radial
Protection DIN EN 60529	IP54, IP65
Operating speed	≤10,000 rpm
Starting torque	≤0.01 Nm (IP67)
Materials	Housing: aluminum Flange: aluminum Shaft: stainless steel
Shaft diameter	4, 5 mm (other diameters on request)
Bearings lifetime	2x10 ⁹ rev. at 100% of full rated shaft load (minimum)
Operating temperature	-20...+85°C
Storage temperature	-30°C up to +90°C
Weight approx.	130 g

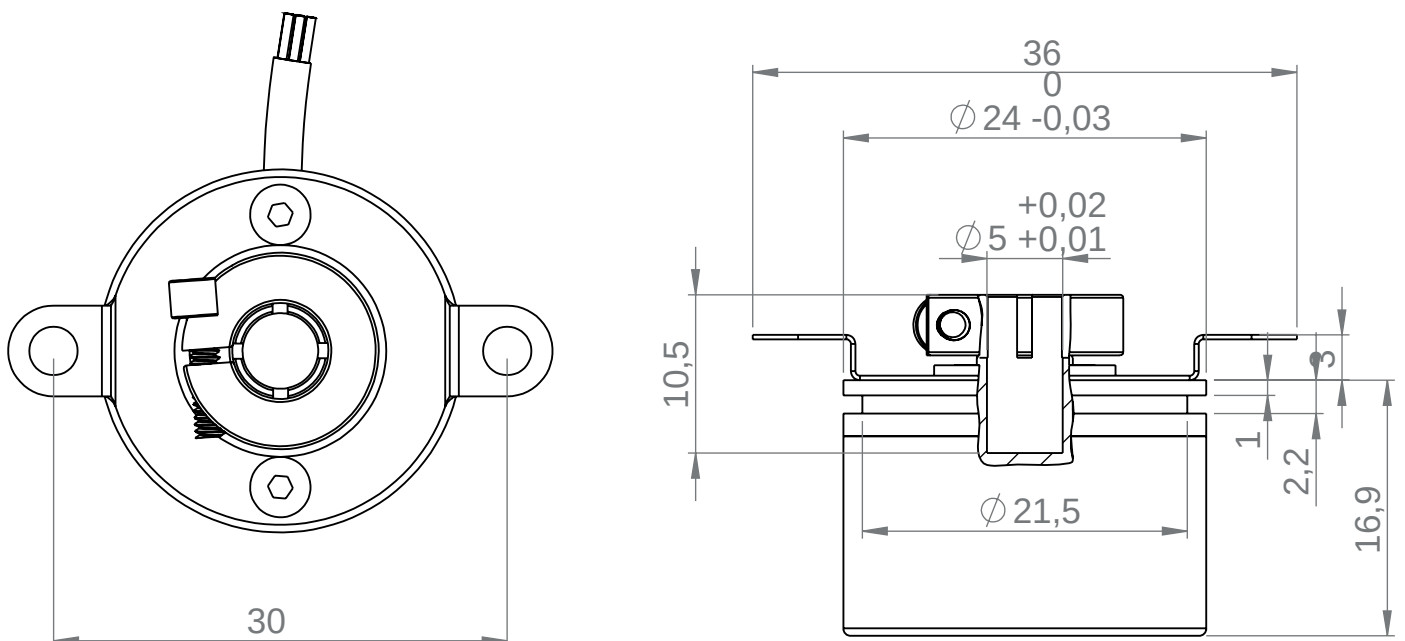
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Mechanical Dimensions

4 mm shaft diameter



5 mm shaft diameter



Incremental encoders

Cable / Connector Wiring, Part Number

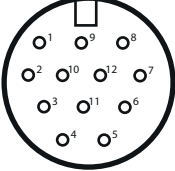
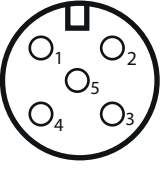
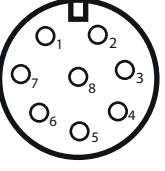
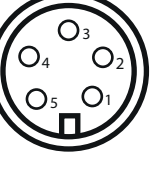
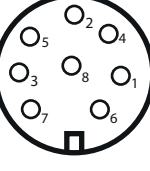
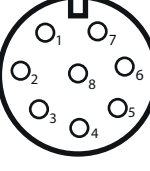


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Cable Connection

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

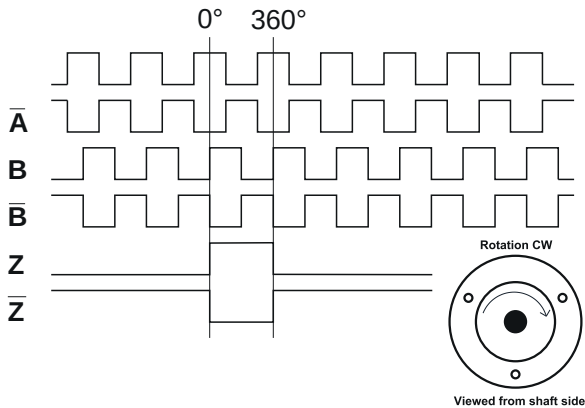
Connector Connection

Function	R2312R	R1205	R1208	R1505	R1508	R1608
+VB	pin 2-12	pin 1	pin 1	pin 1	pin 1	pin 1
GND	pin 10-11	pin 2	pin 2	pin 2	pin 2	pin 2
A	pin 5	pin 3	pin 3	pin 3	pin 3	pin 3
A'	pin 6		pin 4		pin 4	pin 4
B	pin 8	pin 4	pin 5	pin 4	pin 5	pin 5
B'	pin 1		pin 6		pin 6	pin 6
Z	pin 3	pin 5	pin 7	pin 5	pin 7	pin 7
Z'	pin 4		pin 8		pin 8	pin 8
Connector						
Pin Design						

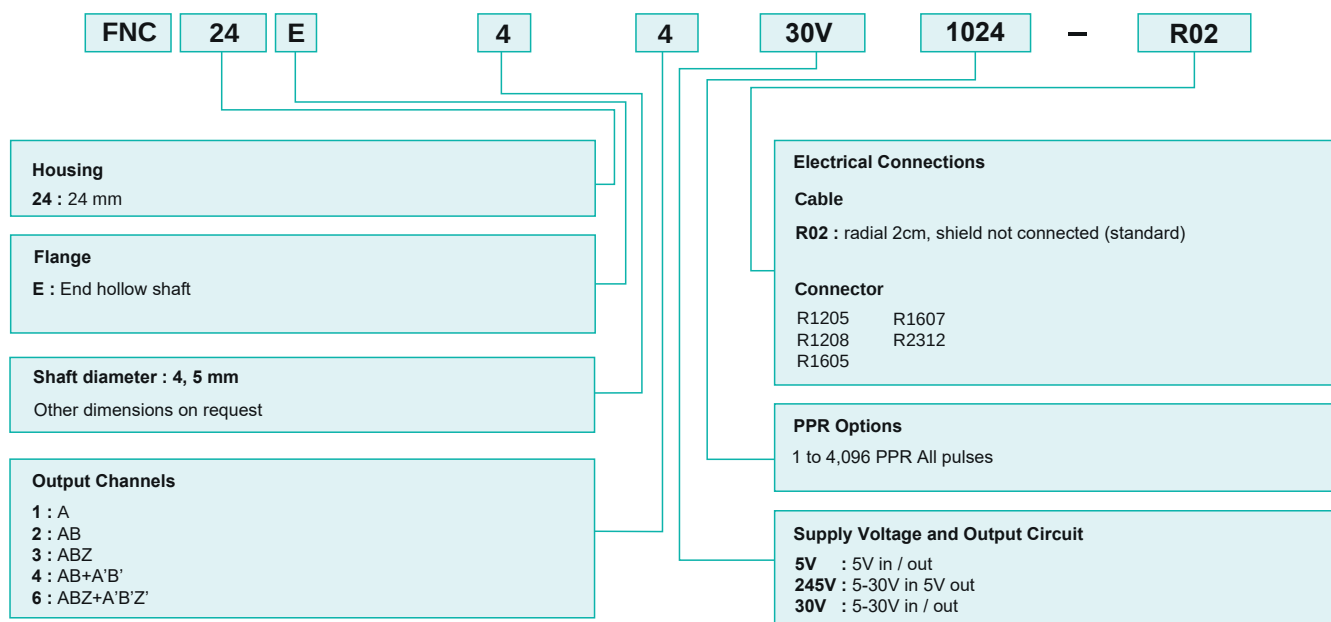
** for other connector options visit www.fenac.com.tr

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Pulse Diagram



Encoder Part Number



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