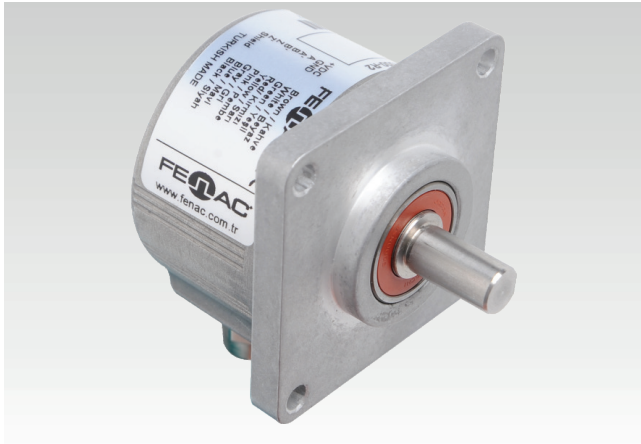


Incremental encoders

Resolution 1...65,536 pulses



FNC 63K-63D Series, Square Flange



Features

- Industry 63 mm special size, square flange
- Robust mechanical and electrical construction
- Protection up to IP67
- Up to 65.536 ppr max.
- <300 kHz frequency
- Optical and magnetic sensing

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)	1024...10.000 ppr
Reference signal	Zero pulse, width 90° 180°, 360° optional
Optoelectronic life time	100.000 (min)
Output frequency	<300 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

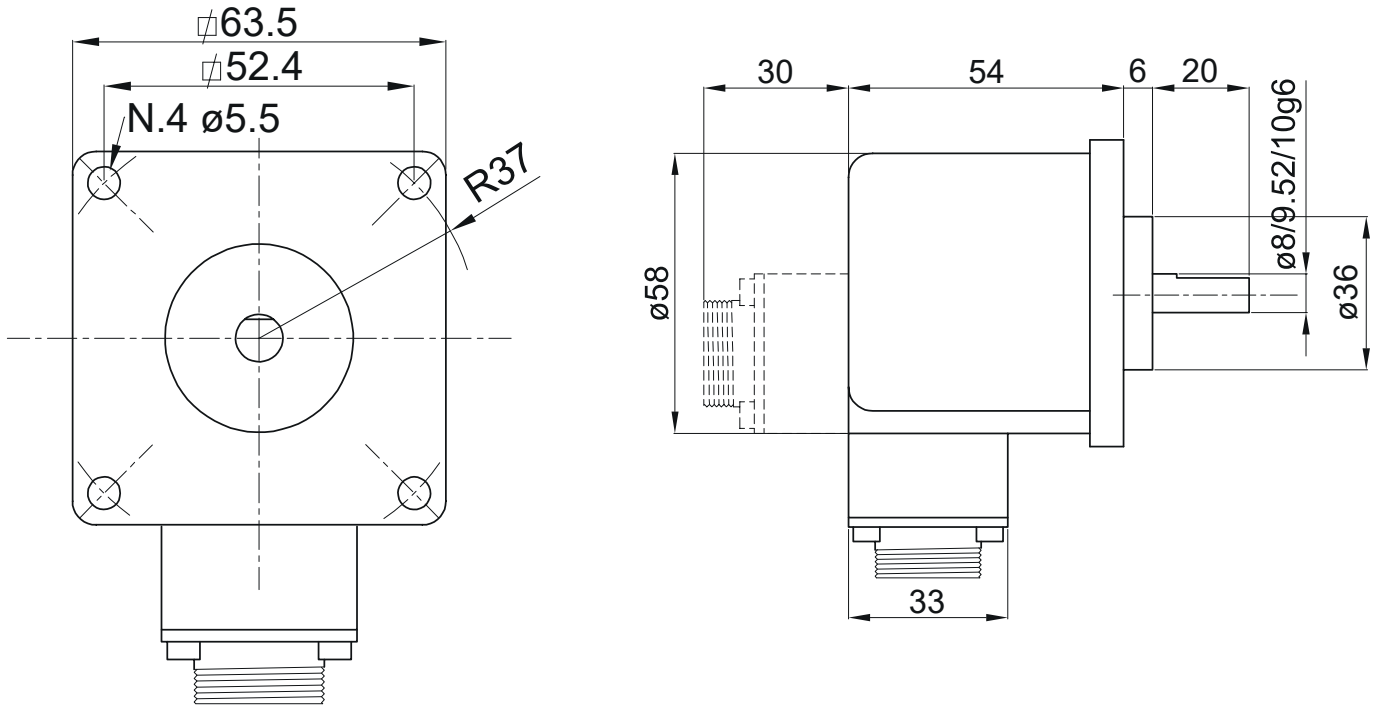
Technical data-mechanical ratings

Dimensions (flange)	Ø63 mm
Shaft loading	≤140 N axial ≤240 N radial
Protection DIN EN 60529	IP54, IP65
Operating speed	≤10.000 rpm
Starting torque	≤0.025 Nm (IP67)
Materials	Housing: aluminum Flange: aluminum Shaft: stainless steel
Shaft diameter	6, 8, 10, 12, 14 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.	250 g

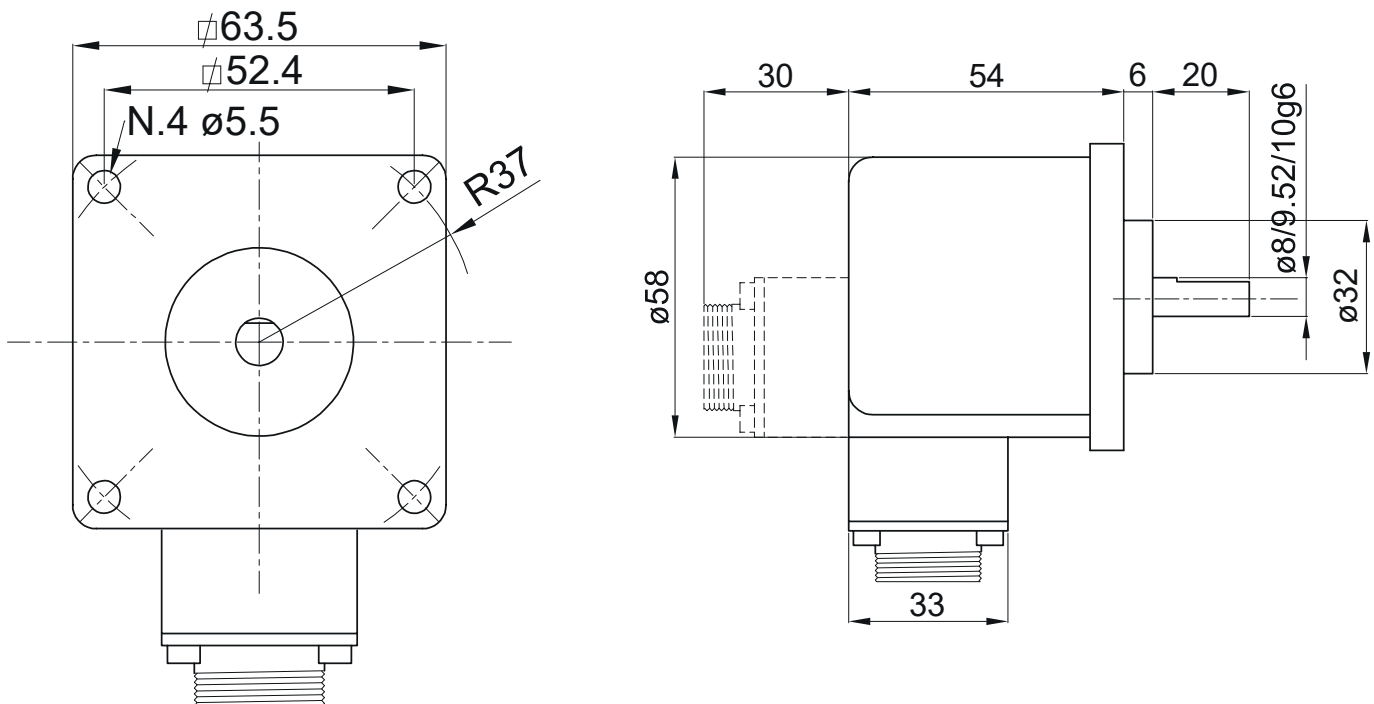
FNC 63K-63D Series, Square Flange

Mechanical Dimensions

63K Version



63D Version

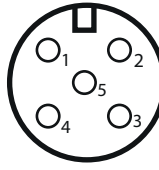
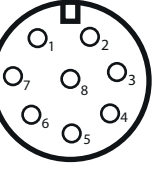
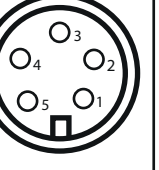
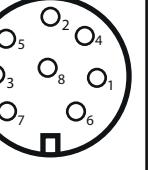
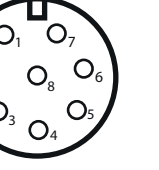


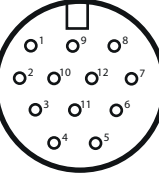
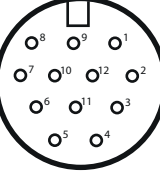
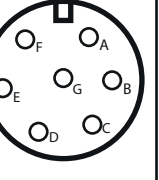
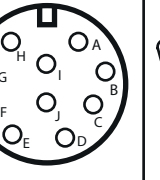
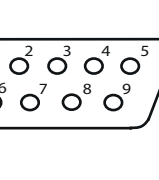
Incremental encoders

Connector Wiring

FNC 63K-63D Series, Square Flange

Connector Connection

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

Function	R2312R	R2312L	R2507	R2810	DSUB 9 Pin
+VB	pin 2-12	pin 2-12	pin G	pin J	pin 8
GND	pin 10-11	pin 10-11	pin F	pin I	pin 9
A	pin 5	pin 5	pin A	pin A	pin 1
A'	pin 6	pin 6		pin B	pin 2
B	pin 8	pin 8	pin C	pin C	pin 3
B'	pin 1	pin 1		pin D	pin 4
Z	pin 3	pin 3	pin E	pin E	pin 5
Z'	pin 4	pin 4		pin F	pin 6
Connector					
Pin Design					

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

Incremental encoders

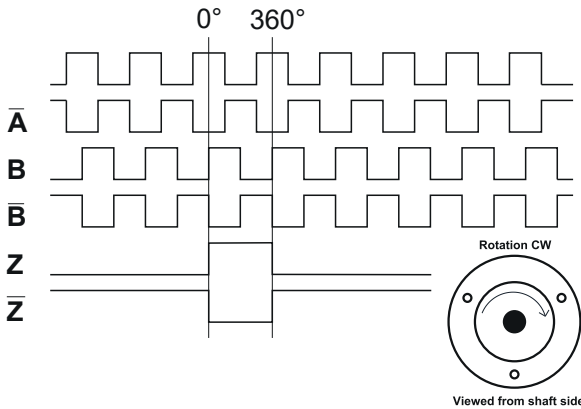
Cable Wiring, Pulse Diagram,
Part Number

FNC 63K-63D Series, Square Flange

Cable Connection

Function		Color	Renk	Farbe	Цвет	颜色
+VB		Brown	Kahve	Braun	Коричневый	棕色的
GND		White	Beyaz	Weiß	Белый	白色的
A		Green	Yeşil	Grün	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

Pulse Diagram



Encoder Part Number

