

Incremental encoders

Resolution 1...65.536 pulses



FNC 58B Series



Features	• Industry 58 mm standart size, clamping flange • Robust mechanical and electrical construction • Protection up to IP67 • Up to 65.536 PPR max. • <300 kHz frequency
PPR Options :	1 to 65.536 - 25 - 50 - 100 - 200 - 250 - 300 - 360 - 400 - 500 - 512 - 600 - 720 - 800 - 900 - 1000 - 1024 - 1250 - 1440 - 2000 - 2048 - 2500 - 3000 - 3600 - 4000 - 4096 - 5000 - 6000 - 8192 - 10000 - 12500 - 16384 - 20000 - 25000
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...25.000 up to 65536
Reference signal	Zero pulse, width 90° 180°, 360° optional
Optoelectronic life time	100.000 (hour)
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 design	
Dimensions (flange)	ø58 mm
Shaft loading	≤120 N axial ≤160 N radial
Protection DIN EN 60529	IP54, IP65
Operating speed	≤10000 rpm
Starting torque	≤0.025 Nm (IP 67)
Materials	Housing: Aluminium Flange: Aluminium Shaft : Stainless steel
Shaft diameter:	4, 6, 8, 10, 12, 14, 15 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

کانون ابزار
تلفن:
۰۲۱ ۶۶ ۳۹ ۳۹ ۰۰
۰۹۱۲ ۱۴۷ ۳۰۲۳
ali5.ir

Incremental encoders

Mechanical Dimensions
Cable/Connector Wiring, Part Number

FNC 58B Series



Mechanical Dimensions

Pulse Diagram

Cable Wiring

Function	Color	Renk	Explanation
+VB	Brown	Kahve	Supply Voltage
GND	White	Beyaz	Ground
A	Green	Yeşil	A Channel
A'	Red	Kırmızı	A Inverted Channel
B	Yellow	Sarı	B Channel
B'	Pink	Pembe	B Inverted Channel
Z	Gray	Gri	Z Channel
Z'	Blue	Mavi	Z Inverted Channel
Shield	Black	Siyah	Shield

Encoder Part Number

FNC

58

B

8

6

30V

1024

-

R2

Housing:
58 : 58mm

Flange Type:
B : Clamp Diameter 36 mm
D : Clamp Diameter 32 mm

Shaft diameter : 4, 6, 8, 10, 12, 14, 15
Other dimensions on request

Output Channels
1 : A
2 : AB
3 : ABZ
4 : AB+A' B'
6 : ABZ+A' B' Z'

Electrical Connections:
Cable
R2 : radial 2m, shield not connected (standart)
A2 : axial 2m, shield not connected (standart)
Connector:
R1204 R1607
R1205 R1614
R1208 R2312R
R1212 R2312L

PPR Options :
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Supply Voltage and output circuit :
5V : 5V in / out
245V : 5-30V in 5V out
30V : 5-30V in / out