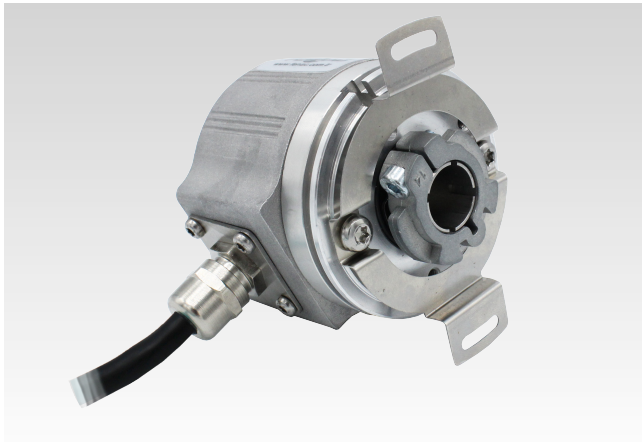


Incremental encoders

Programmable Resolution 1...65.536 pulses



FNCPW 58H Series Programmable



Features

- Industry 58 mm standard size,
- Hollow shaft version
- Robust mechanical and electrical construction
- Protection up to IP67
- Up to 65.536 PPR max.
- ≤2 MHz frequency
- Programming vi FNC PT - PC OW Programming tool

PPR Options :

1 to 65.536 ppr for magnetic version
1 to 65.536 ppr for optical version
up to 2.000.000 on request

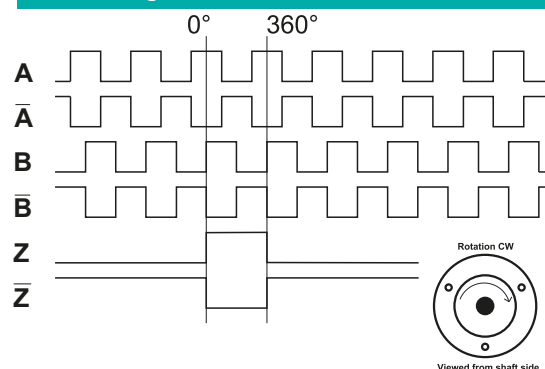
Technical data - electrical ratings

Voltage supply	5VDC to 30VDC
Protection	Output short circuit protection. Reverse polarity protection Over voltage protection (except 5V version)
Consumption w/o load	≤60 mA (5 VDC)
Reference signal	Programmable length, 90° 180°, 270°, 360°
Output frequency	≤2 MHz
Output signals	90° shifted A and B, Z + all channels can be set indepently inverted
Output circuit	Linedriver/RS422 Push-pull short-circuit proof
Interference immunity	DIN EN 61000-6-2
Emitted interference	DIN EN 61000-6-4
Approval	CE

Technical data - mechanical design

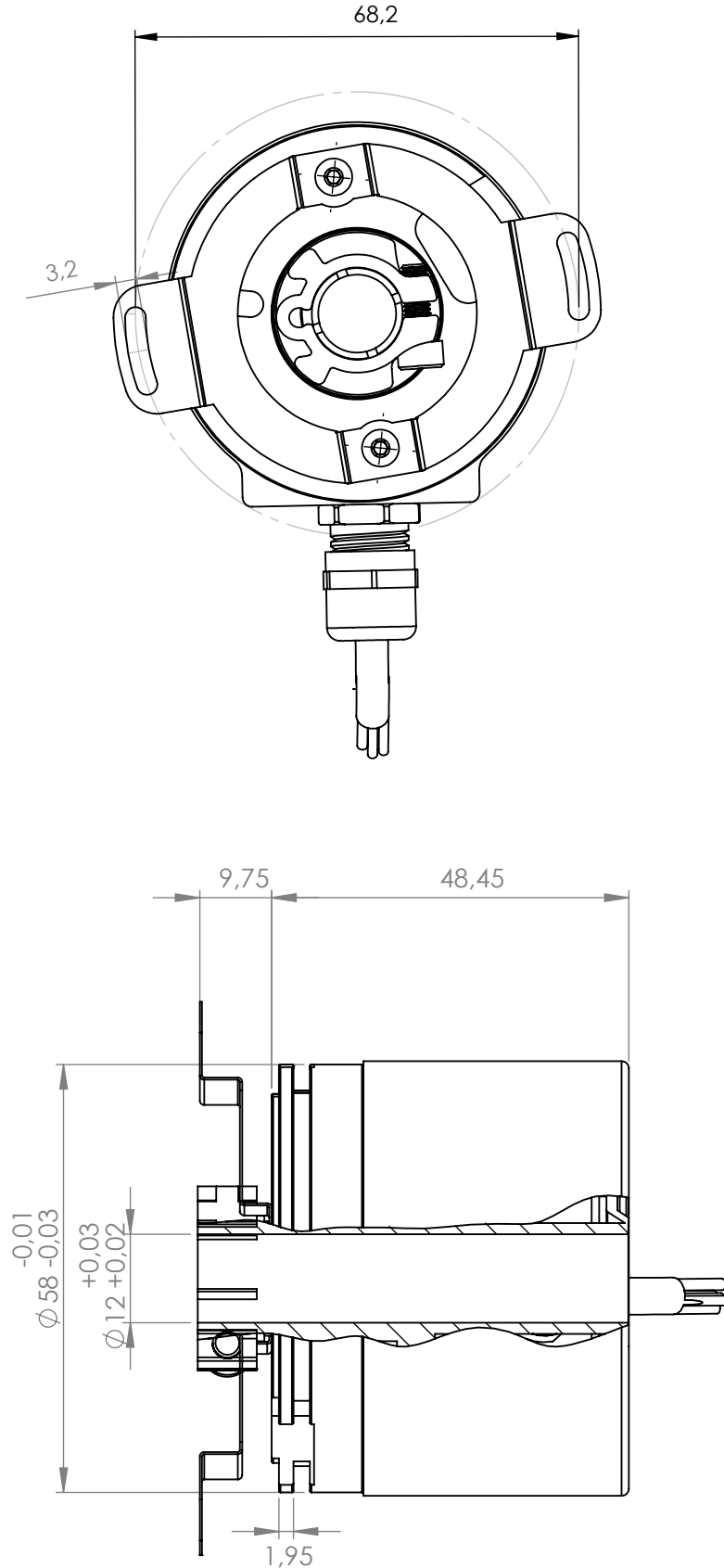
Dimensions (flange)	ø58 mm
Shaft loading	≤140 N axial ≤240 N radial
Protection DIN EN 60529	IP54, IP65
Operating speed	≤12000 rpm
Starting torque	≤0.025 Nm (IP65)
Materials	Housing: Aluminum Flange: Aluminum Shaft : Stainless steel
Shaft diameter	6, 8, 10, 12 mm (other diameters on request)
Bearings 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

Pulse Diagram



FNCPW 58H Series Programmable

Mechanical Dimensions



Incremental encoders

Optical and Magnetic Programming Options

FNCPW 58H Series Programmable

Cable Wiring

Function	Color	Renk	Farbe	Цвет	颜色	M2312 Connector
+VB	Brown	Kahve	Braun	Коричневый	棕色的	pin 2
GND	White	Beyaz	Weiß	Белый	白色的	pin 10
A	Green	Yeşil	Grün	Зеленый	绿	pin 5
A'	Green-Black	Yeşil-Siyah	Grün-Schwarz	Зелено-черный	绿-蓝色的	pin 6
B	Yellow	Sarı	Gelb	Желтый	黄色的	pin 8
B'	Yellow-Black	Sarı-Siyah	Gelb-Schwarz	Желто-черный	黄色的-蓝色的	pin 1
Z	Gray	Gri	Grau	Серый	灰色的	pin 3
Z'	Gray-Black	Gri-Siyah	Grau-Schwarz	Серо-черный	灰色的-蓝色的	pin 4
PR	Orange	Turuncu	Orange	Оранжевый	橙	pin 11

Programming Wire

FNC PT-PCOW Programming Device

No need for additional PC



Programming Device Cable -
Connected to Adaptor

FNCPW 58HO 10630VX-R2

Encoder Part Number

FNCPW 58 H O 10 6 30V X - R2

Housing:
58 : 58mm

Flange Type
H : Hollow Shaft

O : Optical programmable
M : Magnetic programmable

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

Output Channels

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)

PPR Options :

1 to 65.536 ppr for magnetic version
1 to 65.536 ppr for optical version
up to 2.000.000 on request

Supply Voltage and output circuit :

5V : 5V in / out
30V : 5-30V in/out