Incremental encoders

Optical and Magnetic Programming Options

Programmable Resolution 1...100.000 pulses

EIP 58S Series Programmable



Features

- **Industry 58 mm standart size,**
- **Servo flange version**
- **Robust mechanical and electrical construction**
- **Protection up to IP67**
- **Up to 65.536 PPR max.**
- **≤2 MHz frequency**
- **Programming vi FNC PT - PC Programming tool**
- **FNC PT - PS easy programming software**

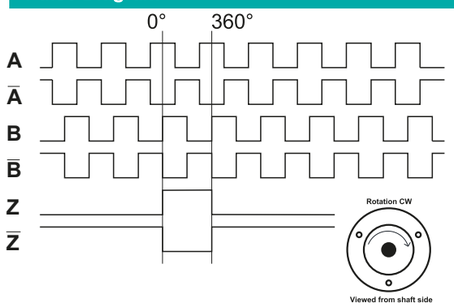
PPR Options :

1 to 65.536 ppr for magnetic version
1 to 100.000 ppr for optical verison
up to 2.000.000 on request

Technical data - electrical ratings

Voltage supply	4.75VDC to 30VDC 4.75VDC to 5.5VDC
Protection	Output short circuit protection. Reverse polarity protection Over voltage protection (except 5V version)
Consumption w/o load	≤60 mA (5 VDC) ≤35 mA (12 VDC) ≤26 mA (24 VDC) ≤27 mA (30 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

Pulse Diagram



echnical 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 (IP 67)
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

Cable Wiring

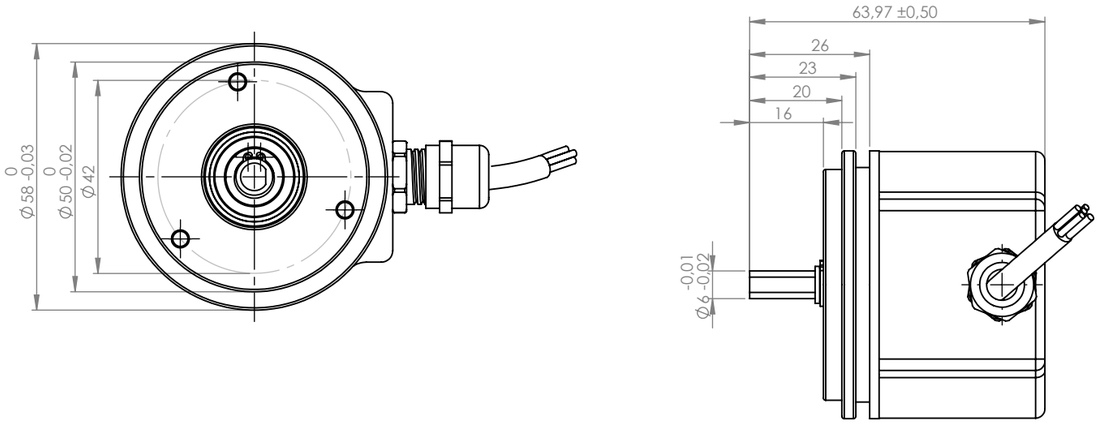
Function	Color	Renk	Explanation
+VB	Brown-Green	Kahve-Yeşil	Vcc
GND	White-Green	Beyaz-Yeşil	GND
A	Green	Yeşil	A
A'	Green-Black	Yeşil-Siyah	A Inverse
B	Yellow	Sarı	B
B'	Yellow-Black	Sarı- Siyah	B Inverse
Z	Gray	Gri	Z
Z'	Gray-Black	Gri-Siyah	Z Inverse
C	Blue	Mavi	Clock
D	Orange	Turuncu	Data
Shield	Black	Siyah	Shield

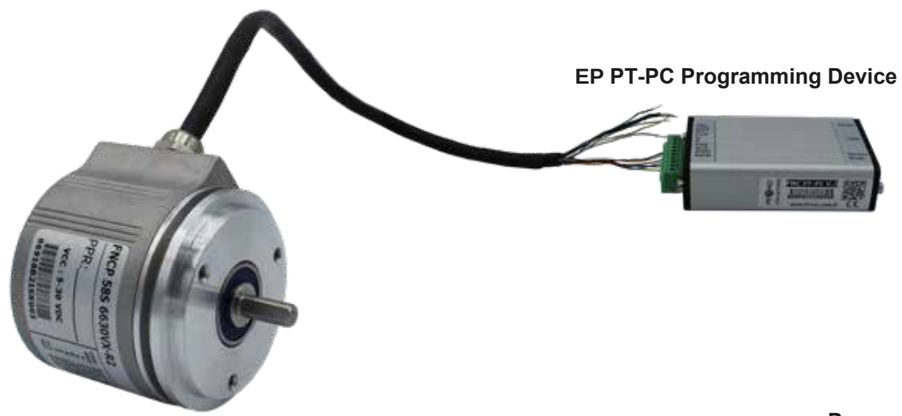
Incremental encoders

Mechanical Dimensions
Cable/Connector Wiring, Part Number

EIP 58S Series Programmable

Mechanical Dimensions





EIP 58SO 10630VX-R2

EP PT-PC Programming Device



Programming Device - PC Cable

Encoder Part Number

EIP	58	S	O	10	6	30V	X	–	R2

Housing:
58 : 58mm

Flange Type
S : Servo flange

O : Optical programmable **M :** Magnetic programmable

Shaft diameter : 4, 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)

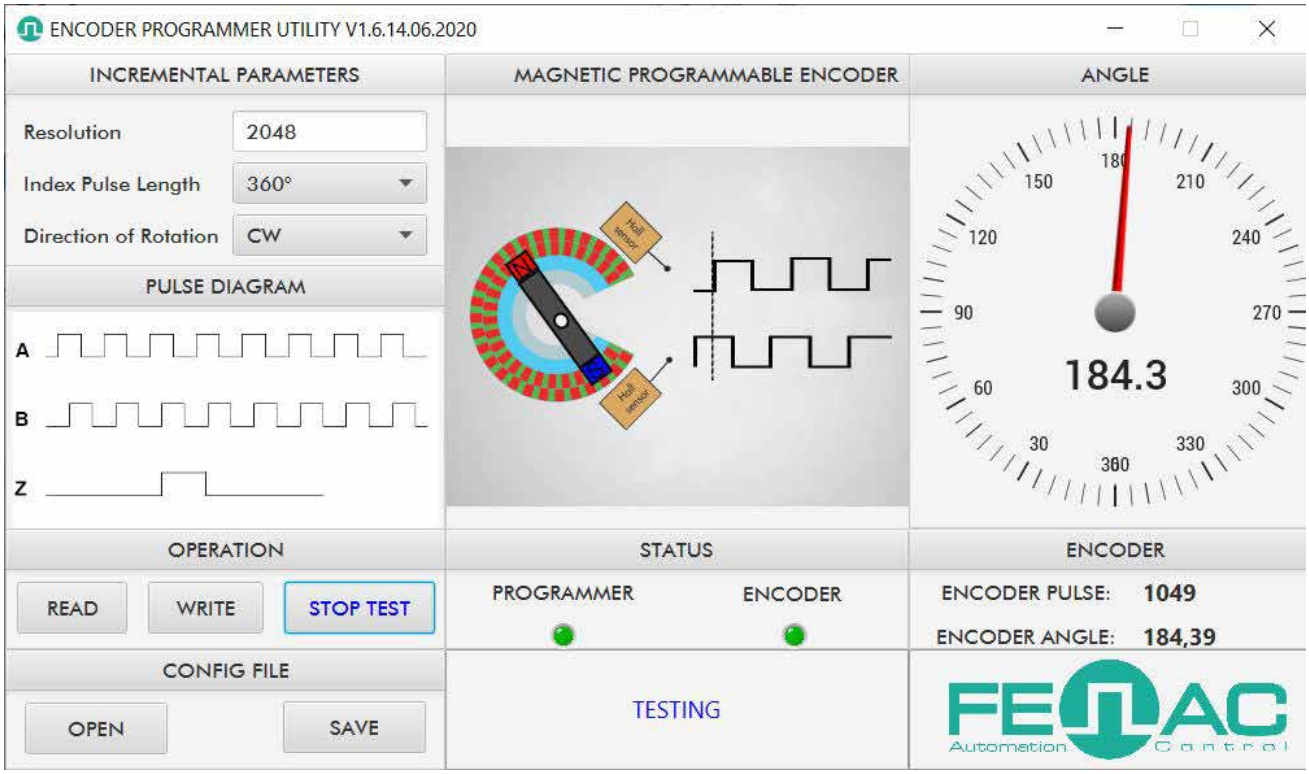
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Supply Voltage and output circuit :
5V : 5V in / out
245V : 5-30V in 5V out
30V : 5-30V in / out

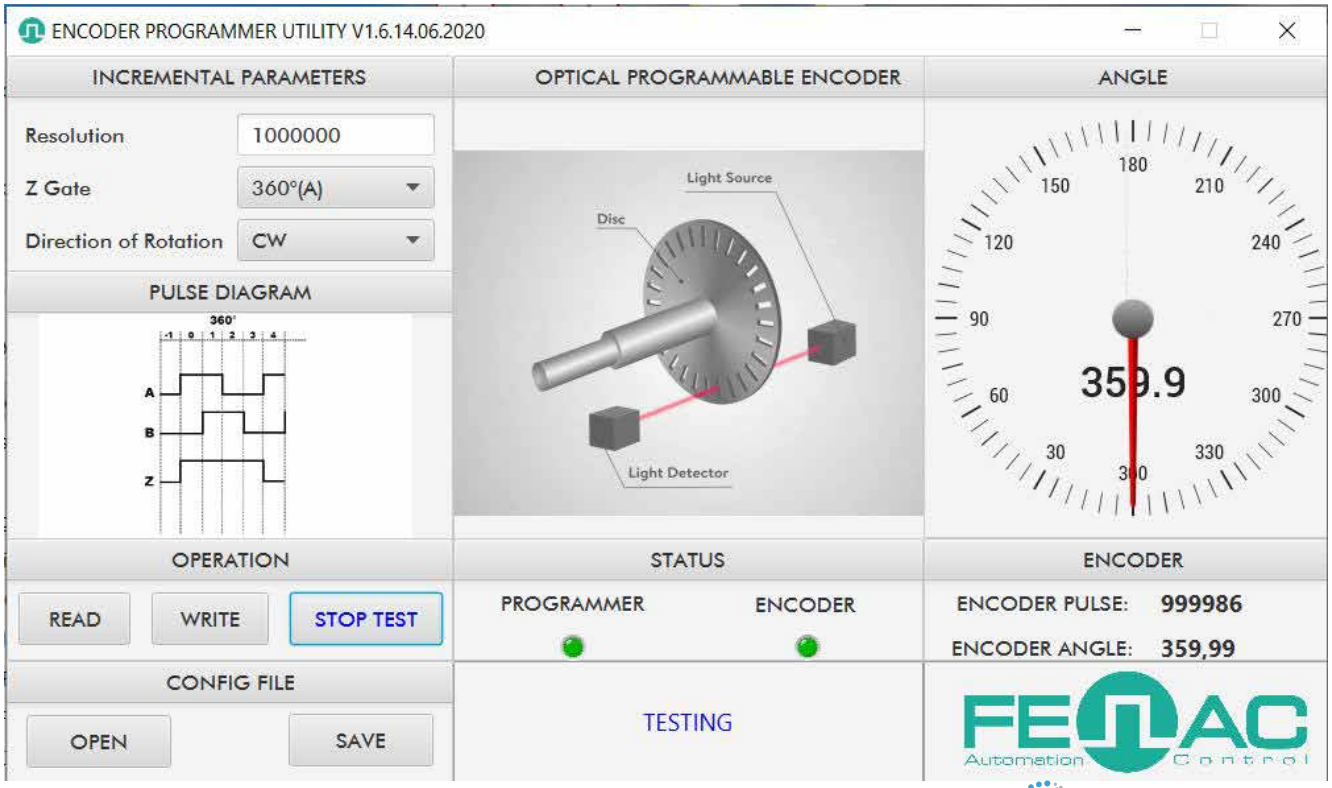
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EP PT-PC Programming Device

Magnetic Programming PC view



Optical Programming PC view



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