

Incremental encoders
Optical and Magnetic Programming Options
Programmable Resolution 1...100.000 pulses

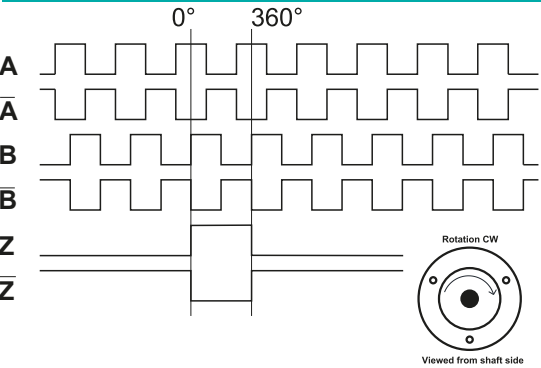


EIP 58H Series Programmable



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



Features	
• Industry 58 mm standart size, • Hollow shaft version • Robust mechanical and electrical construction • Protection up to IP67 • Up to 100.000 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	
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

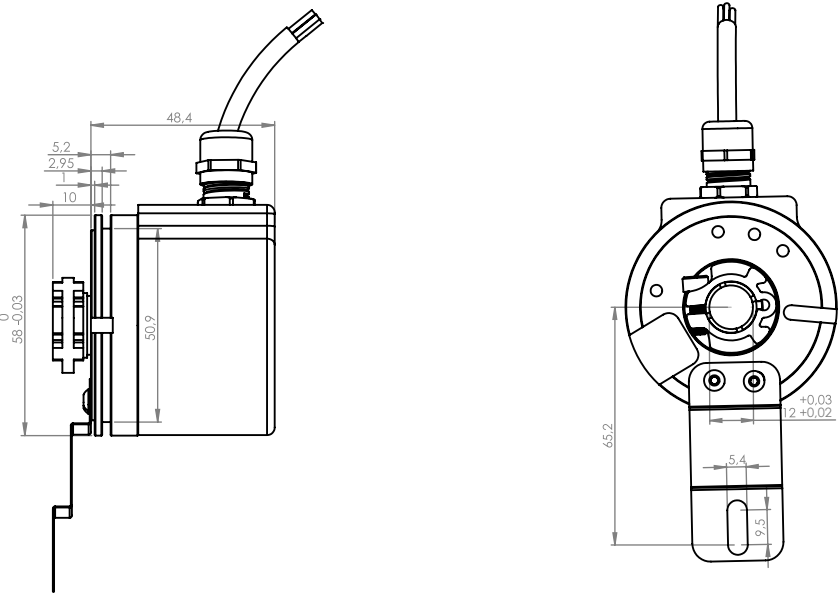
Cable Wiring			
Function	Color	Renk	Explanation
+VB	Brown-Green	Kahve-Yeşil	Vcc
GND	White-Green	Beyaz-Yeşil	GND
A	Green	Yeşil	A
A'	Green-Black	Yeşil-Siyah	A Inverse
B	Yellow	Sarı	B
B'	Yellow-Black	Sarı- Siyah	B Inverse
Z	Gray	Gri	Z
Z'	Gray-Black	Gri-Siyah	Z Inverse
C	Blue	Mavi	Clock
D	Orange	Turuncu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



Incremental encoders
Mechanical Dimensions
Cable/Connector Wiring, Part Number

EIP 58H Series Programmable

Mechanical Dimensions



Encoder Part Number									
EIP	58	H	O	10	6	30V	X	-	R2
Housing: 58 : 58mm					Electrical Connections: Cable R2 : radial 2m, shield not connected (standart) A2 : axial 2m, shield not connected (standart)				
Flange Type H : Hollow Shaft					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				
O : Optical programmable M : Magnetic programmable					Supply Voltage and output circuit : 5V : 5V in / out 245V : 5-30V in 5V out 30V : 5-30V in / out				
Shaft diameter : 4, 6, 8, 10, 12 Other dimensions on request									
Output Channels 3 : ABZ 4 : AB+A' B' 6 : ABZ+A' B' Z'									

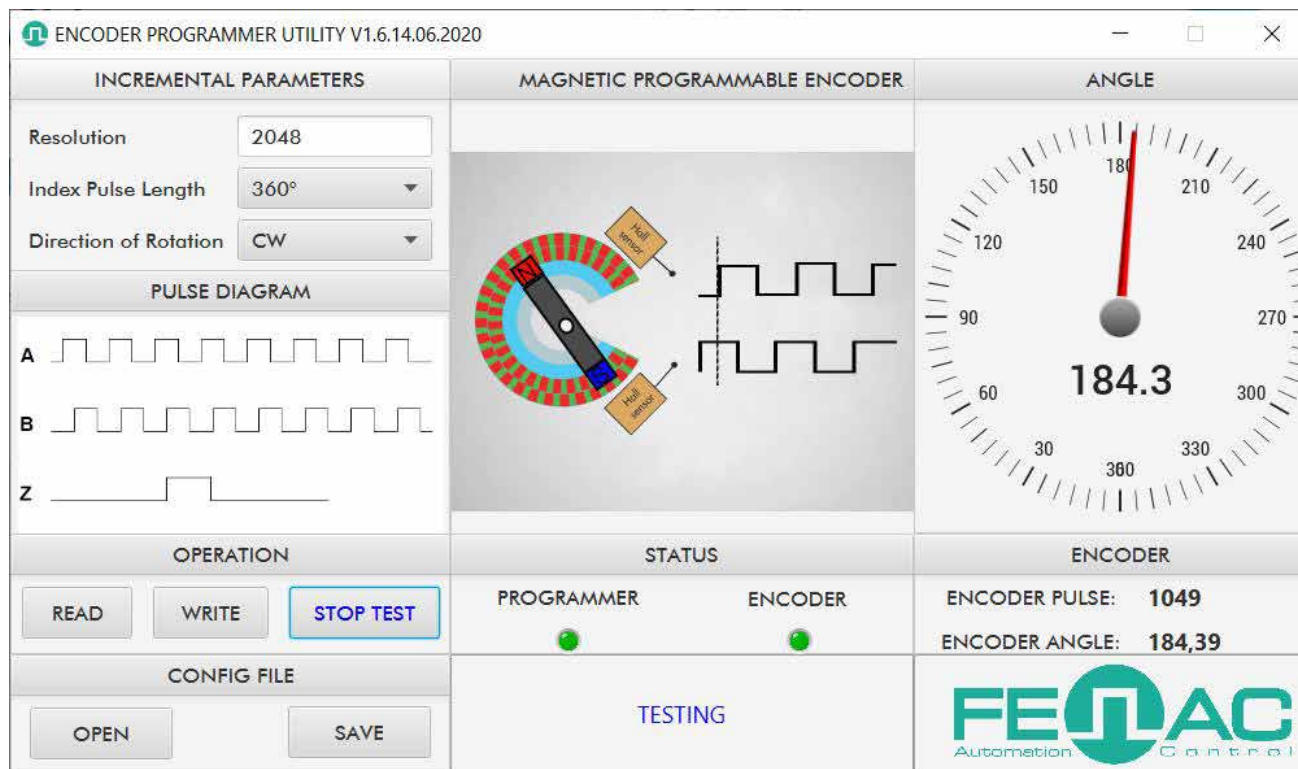
Incremental encoders

Optical and Magnetic Programming Options



EP PT-PC Programming Device

Magnetic Programming PC view



Optical Programming PC view

