

EF 50 F / G / K

INCREMENTAL ENCODER
MOTOR SERIES





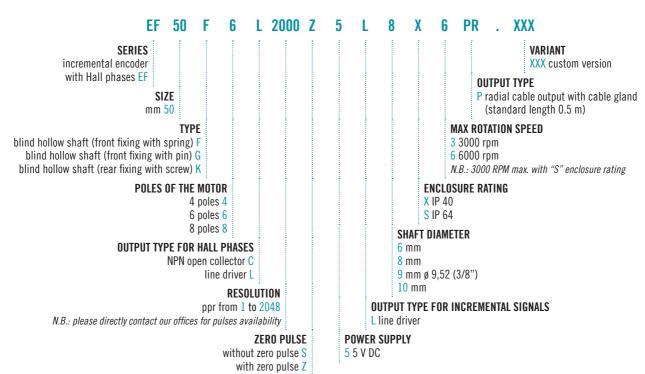
MAIN FEATURES

ø 50 encoder series recommended as motor feedback.

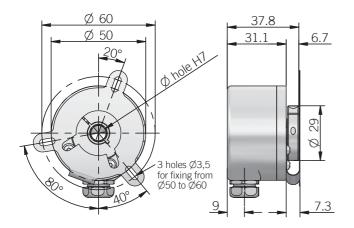
- · Several ways to fix it
- · Easy mechanical mounting
- · Small dimensions
- · Up to 2048 ppr with zero signal
- Several output types available
- · Up to 205 kHz output frequency
- Up to 6000 RPM rotation speed



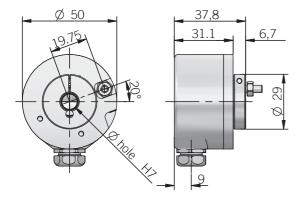
ORDERING CODE



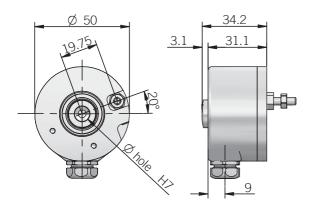
EF 50 F



EF 50 G



EF 50 K



HOW TO MOUNT IT

- Fix the anti-rotation pin (A).
 Insert encoder on the motor shaft with misalignment recovery system just next to the pin (A).
- · Insert the washer (B) on the back and block it using the encoder screw on the motor axle.

- Turn for phasing.
 Fix encoder shaft by metal ring.
 Close the encoder with the plug (C).

Flectrical specifications

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Resolution	from 1 to 2048 ppr	
Power supply	5 V DC ± 10%	
Current consumption without load	150 mA max	
Max load current	15 mA for channel (line driver) 30 mA for channel	
Output type for incremental signals	line driver	
Output type for Hall phases	NPN open collector / line driver	
Max output frequency	205 kHz	
Counting direction	A leads B clockwise (shaft view)	
Electromagnetic compatibility	IEC 61000-6-1 IEC 61000-6-3	

Machanical specification

mechanical specifications		
Shaft diameter	6 / 8 / 9,52 (3/8") / 10 mm	
Enclosure rating	IP 40 (IEC 60529) IP 64 (IEC 60529)	
Max rotation speed	3000 rpm 6000 rpm	
Shock	50 G, 11 ms (IEC 60068-2-27)	
Vibration	5 G, 10 500 Hz (IEC 60068-2-6)	
Bearings	2 ball bearings	
Bearings life	10 ⁹ revolutions	
Body material	EN-AW 2011 aluminum	
Shaft material	1.4305 / AISI 303 stainless steel	
Housing material	EN-AW 2011 aluminum	
Operating temperature	-10° +70 °C -10° +85 °C on request	
Storage temperature	-25° +70 °C	
Weight	150 g	

Connections and standard colours

Function	14 core wire
+V DC	red
0 V	black
Ch. A	green
Ch. B	yellow
Ch. Z	blue
Ch. A-	brown
Ch. B-	orange
Ch. Z-	white
Ch. U	gray
Ch. V	violet
Ch. W	gray-pink
Ch. U-	red-blue
Ch. V-	white-green
Ch. W-	brown-green
_	shield

