

EL 50 F / G / K

INCREMENTAL ENCODER
MOTOR SERIES





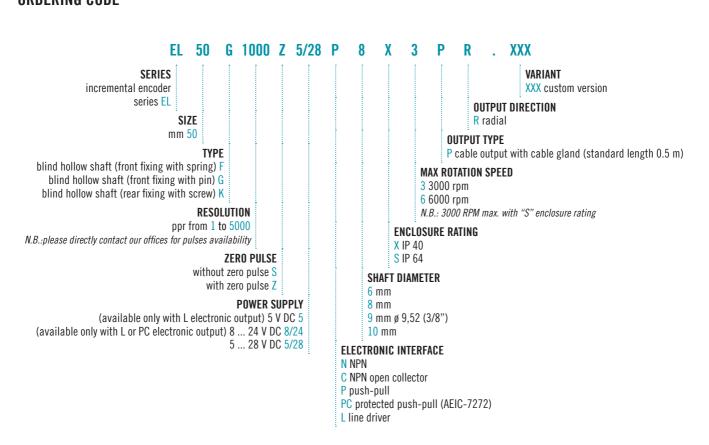
MAIN FEATURES

ø 50 encoder series recommended as motor feedback.

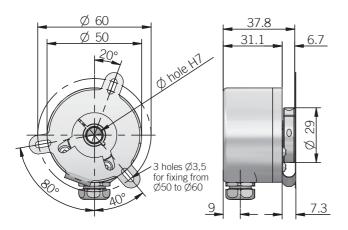
- · Several ways to fix it
- · Easy mechanical mounting
- · Small dimensions
- · Up to 5000 ppr with zero signal
- · Several output types available
- · Up to 150 kHz output frequency
- · Up to 6000 RPM rotation speed



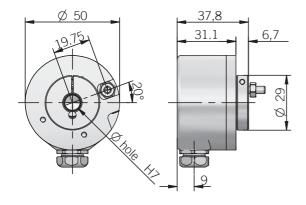
ORDERING CODE



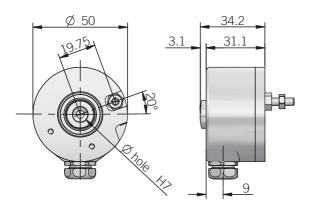
EL 50 F



EL 50 G



EL 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).

Electrical	specifi	icati	ons
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Electrical specifications				
Resolution	from 1 to 5000 ppr			
Power supply	5 V DC \pm 10% 5 28 V DC \pm 5% 8 24 V DC \pm 5% (reverse polarity protection)			
Current consumption without load	100 mA max			
Max load current	30 mA for channel 20 mA for channel (line driver)			
Output type	NPN / NPN open collector / push-pull / line driver			
Max output frequency	150 kHz			
Counting direction	A leads B clockwise (shaft view)			
Electromagnetic compatibility	IEC 61000-6-1 IEC 61000-6-3			

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° revolutions
Body material EN-AW 2011 aluminum
Shaft material 1.4305 / AISI 303 stainless steel
Housing material painted aluminum
Operating -10° +60 °C temperature -10° +85 °C on request
Storage temperature -25° +70 °C
Weight 150 g

Connections and standard colours

Function	Push pull / Npn / Npn open collector	Line driver
+V DC	red	red
0 V	black	black
Ch. A	green	green
Ch. A-	/	brown
Ch. B	yellow	yellow
Ch. B-	/	orange
Ch. Z	blue	blue
Ch. Z-	/	white
÷	shield	shield

