

# Incremental rotary encoder

60-69\*1

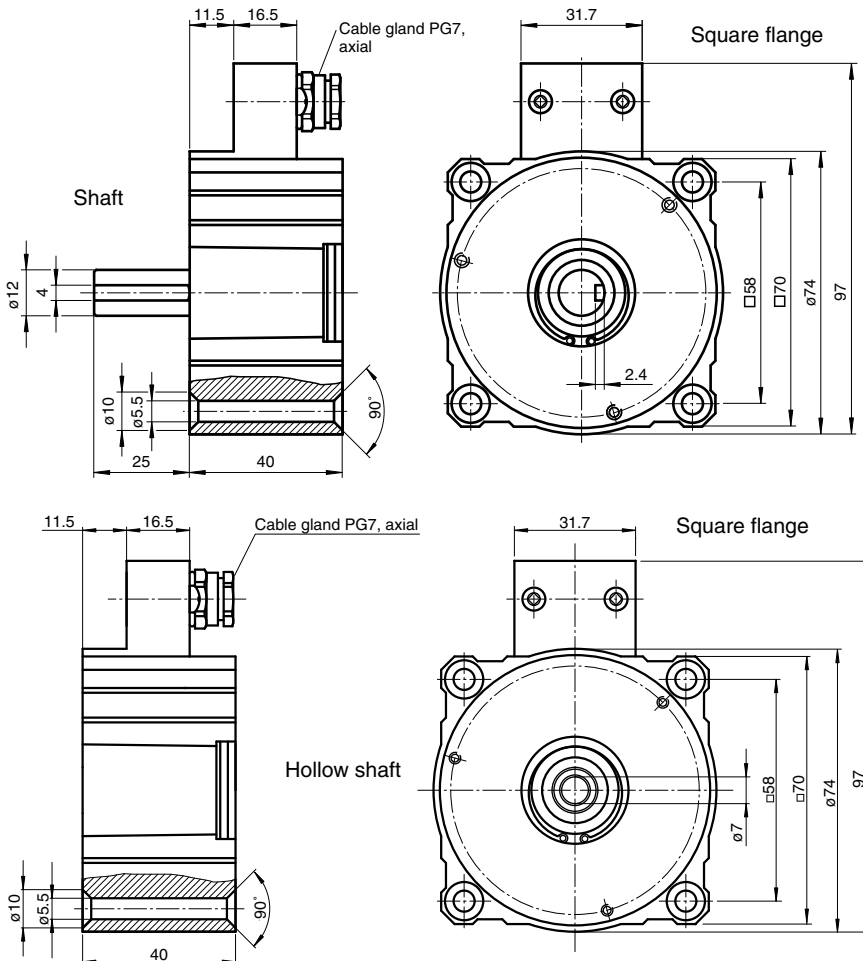
- Up to 1250 ppr
- Rectangular design
- 10 V ... 30 V with short-circuit proof push-pull output



## Function

The series 60 incremental rotary encoders are compact and ideal for simple applications. The rectangular design of the flange and the four mounting holes allow simple installations of the encoder. The housing is made of a synthetic material. The pulse disk is plastic. The encoder can be obtained either in a hollow shaft design or with a solid shaft. The solid shaft design has a feather key groove for attaching a belt pulley or similar device. The permissible radial force is 60 N, while the permissible axial force is 40 N.

## Dimensions



Release date: 2022-12-12 Date of issue: 2022-12-12 Filename: t2369\_eng.pdf

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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## Technical Data

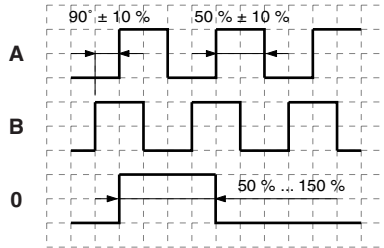
<b>General specifications</b>		
Pulse count		max. 1250
<b>Electrical specifications</b>		
Operating voltage	$U_B$	10 ... 30 V DC
No-load supply current	$I_0$	max. 80 mA
<b>Output</b>		
Output type		push-pull, incremental
Voltage drop	$U_d$	< 4 V
Load current		max. per channel 40 mA , short-circuit protected, reverse polarity protected
Output frequency		max. 50 kHz
Rise time		250 ns
De-energized delay	$t_{off}$	250 ns
<b>Connection</b>		
Terminal compartment		with cable gland PG7
<b>Standard conformity</b>		
Degree of protection		DIN EN 60529, IP50
Emitted interference		EN 61000-6-4:2007/A1:2011
Noise immunity		EN 61000-6-2:2005
<b>Ambient conditions</b>		
Operating temperature		
Plastic disk		-20 ... 60 °C (-4 ... 140 °F)
Storage temperature		
Plastic disk		-40 ... 60 °C (-40 ... 140 °F)
<b>Mechanical specifications</b>		
Material		
Housing		nickel-plated plastic
Flange		Diecast zinc
Shaft		Stainless steel 1.4305 / AISI 303
Mass		approx. 400 g
Rotational speed		max. 6000 min <sup>-1</sup>
Moment of inertia		≤ 36 gcm <sup>2</sup>
Starting torque		≤ 1 Ncm
Shaft load		
Axial		40 N
Radial		60 N

**Connection**

Signal	Terminal compartment
GND	1
+U <sub>b</sub>	2
A	3
B	4
0	5

**Characteristic Curve**

**Signal outputs**



↺ cw - with view onto the shaft

**Type Code**

6	0	-	6	9		1	-			
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- Pulse count** 50, 100, 360, 500, 1000, 1250
- Shaft dimension**
  - 0 Shaft Ø12 mm x 25 mm
  - 2 Hollow shaft Ø7 mm

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