

Model Number

20-2952

Features

- **Sturdy and compact design**
- **Up to 2500 ppr**
- **Rectangular design**
- **5 V with RS-422 interface**

Description

The cuboid housing of this incremental rotary encoder is suitable for easy fastening onto mounting profiles or comparable types of construction. Four through holes and two grooves in the housing allow a wide range of installation possibilities. The die-cast zinc housing gives the incremental rotary encoder the sturdiness it needs.

The pulse disk is designed in plastic up to 600 pulses. Beyond that, glass is used.

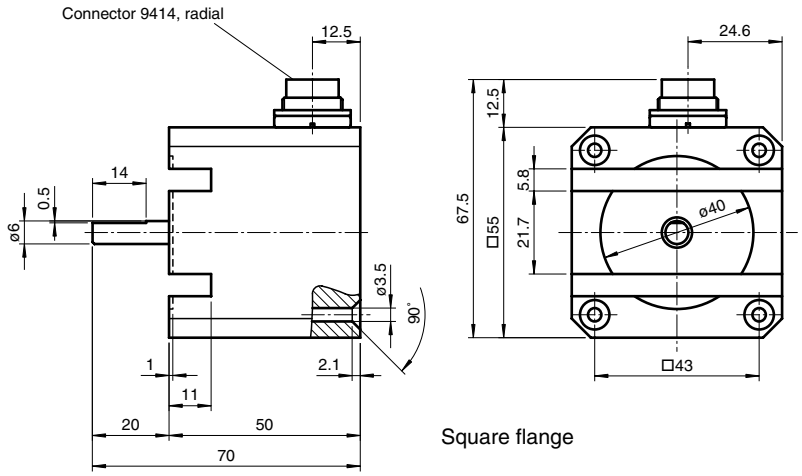
Technical data

General specifications	
Pulse count	max. 2500
Electrical specifications	
Operating voltage U_B	5 V DC ± 5 %
No-load supply current I_0	max. 150 mA
Output	
Output type	RS 422, incremental
Load current	max. per channel 20 mA , conditionally short-circuit proof
Output frequency	max. 160 kHz
Rise time	100 ns
De-energized delay t_{off}	100 ns
Connection	
Connector	type 9414 (M16), 5-pin
Standard conformity	
Degree of protection	DIN EN 60529, IP40
Emitted interference	EN 61000-6-4:2007/A1:2011
Noise immunity	EN 61000-6-2:2005
Ambient conditions	
Operating temperature	
Plastic disk	-20 ... 60 °C (-4 ... 140 °F)
Storage temperature	
Plastic disk	-40 ... 60 °C (-40 ... 140 °F)
Mechanical specifications	
Material	
Housing	powder coated diecast zinc
Flange	powder coated diecast zinc
Shaft	Stainless steel 1.4305 / AISI 303
Mass	approx. 480 g
Rotational speed	max. 3000 min $^{-1}$
Moment of inertia	≤ 5 gcm^2
Starting torque	< 0.5 Ncm
Shaft load	
Axial	10 N
Radial	10 N

Approvals and certificates	
UL approval	cULus Listed, General Purpose, Class 2 Power Source

Release date: 2014-12-12 16:29 Date of issue: 2016-01-26 t2408_eng.xml

Dimensions



Square flange

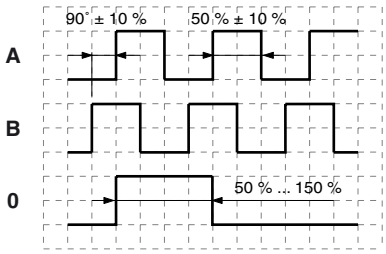
Electrical connection

Signal	Connector 9414, 5-pin
GND	1
$+U_b$	2
A	3
B	4
0	5
	

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Refer to “General Notes Relating to Pepperl+Fuchs Product Information”.
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Signal outputs



↻ cw - with view onto the shaft

Accessories

Accessories	Name/defining feature	Order code
Couplings	D1: Ø6 mm, D2: Ø6 mm	9401
	D1: Ø6 mm, D2: Ø6 mm	9402
	D1: Ø6 mm, D2: Ø6 mm	9404
	D1: Ø6 mm, D2: Ø6 mm	9409
	D1: Ø6 mm, D2: Ø6 mm	KW
Connector	Cable socket	9414

For additional information on the accessories, please see the "Accessories" section.

Order code

2	0	–	2	9	5		–				

Pulse count 30, 60, 90, 100, 180, 200, 250, 300, 314, 360, 400, 500, 600, 720, 900, 1000, 1024, 1200, 1250, 1500, 1800, 2000, 2048, 2400, 2500

Output switching

1 10 V ... 30 V, push-pull

2 5 V, RS 422

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