



Incremental rotary encoder 20-2951

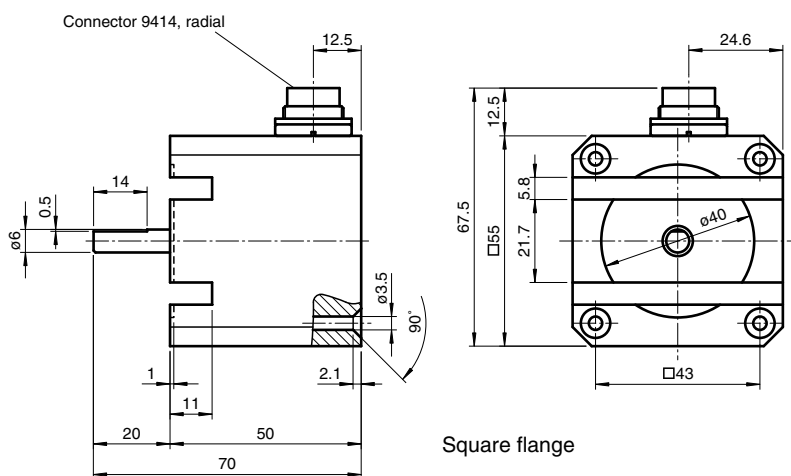
- Sturdy and compact design
- Up to 2500 ppr
- Rectangular design
- 10 V ... 30 V with short-circuit proof push-pull output



Function

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 diecast 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.

Dimensions



Technical Data

General specifications

Pulse count	max. 2500
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Electrical specifications

Operating voltage	U_B	10 ... 30 V DC
No-load supply current	I_0	max. 80 mA

Output

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. 160 kHz
Rise time		250 ns
De-energized delay	t_{off}	250 ns

Technical Data

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

Accessories

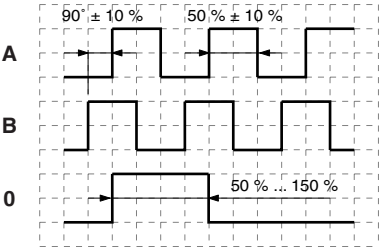
	9414A	Female cordset
	9414B	Female cordset

Connection

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

Characteristic Curve

Signal outputs



↻ cw - with view onto the shaft

Type Code

2	0	-	2	9	5		-			
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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

Release date: 2022-12-12 Date of issue: 2022-12-12 Filename: t20476_eng.pdf