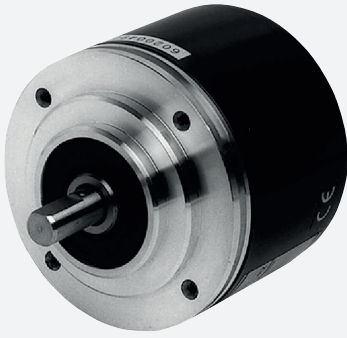


Incremental rotary encoder

RVI84



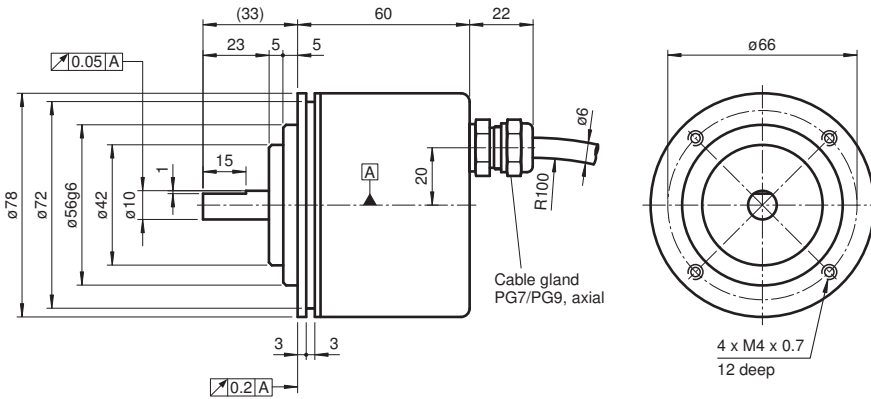
- Up to 25 ppr
- ATEX approval
- Intrinsically safe
- NAMUR interface in accordance with DIN EN 60947-5-6



Function

Up to two intrinsically safe 2-wire NAMUR sensors are integrated in the incremental encoders of the series RVI84. These devices are intrinsically safe in accordance with II 2 G Ex ia II T6. One special feature of this incremental rotary encoder is the mechanical versatility of the flange. The rotary encoder has a centering shoulder with a diameter of 42 mm and one with a diameter of 56 mm. In addition to the four M4 holes, the encoder has a servo infeed on the circumference. This allows you to make a slight adjustment to the reference point of the incremental rotary encoder by turning the housing. The clamping element that grips into the servo infeed ensures that the incremental rotary encoder stays firmly in place without slipping out of adjustment.

Dimensions



Technical Data

General specifications

Pulse count max. 25

Electrical specifications

Operating voltage U_B 8 V DC

Output

Output type NAMUR (SJ2-N)

Load current max. per channel 3 mA, short-circuit protected

Output frequency max. 5 kHz

Connection

Release date: 2020-04-23 Date of issue: 2020-04-23 Filename: t2440_eng.pdf

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

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PEPPERL+FUCHS

Technical Data

Cable	Ø6 mm, 4 x 0.38 mm ²
Standard conformity	
Degree of protection	DIN EN 60529, IP65
Shock resistance	DIN EN 60068-2-27, 100 g, 3 ms
Vibration resistance	DIN EN 60068-2-6, 10 g, 10 ... 2000 Hz
Standards	EN 60947-5-2:2007 EN 60947-5-6:2000
Ambient conditions	
Operating temperature	
Plastic disk	-20 ... 60 °C (-4 ... 140 °F)
Storage temperature	
Plastic disk	-25 ... 85 °C (-13 ... 185 °F)
Mechanical specifications	
Material	
Housing	Aluminum
Flange	3.1645 aluminum
Shaft	Stainless steel 1.4305 / AISI 303
Mass	approx. 630 g
Rotational speed	max. 3000 min ⁻¹
Moment of inertia	100 gcm ²
Starting torque	< 5 Ncm
Shaft load	
Axial	50 N
Radial	100 N
Data for application in connection with hazardous areas	
Certificate	PF13CERT2948 X
Directive conformity	
Directive 2014/34/EU	EN ISO 80079-36:2016+AC:2019 , EN ISO 80079-37:2016 , EN 60079-0:2012 +A11:2013, EN 60079-11:2012
Group, category, type of protection	⊕ II 2G Ex h ia IIC T6...T4 Gb

Connection

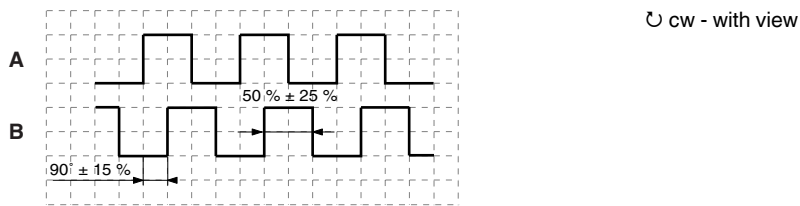
Electrical connection

Signal	Cable Ø6 mm, 4-core
A _{NAMUR+}	Brown
A _{NAMUR-}	Blue
B _{NAMUR+}	White
B _{NAMUR-}	Black

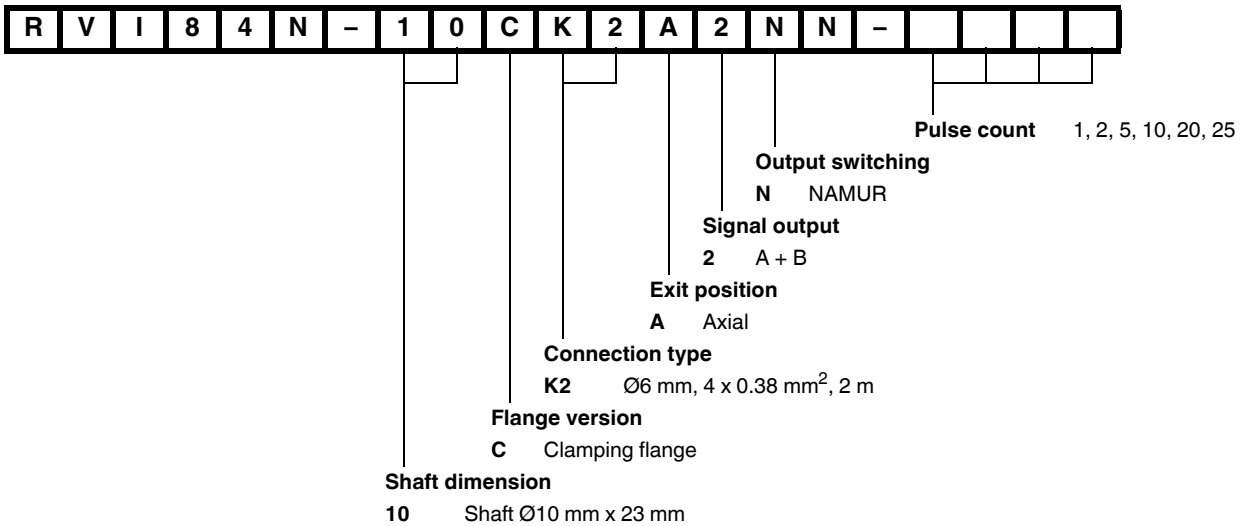
The circuits A and B are not connected and not grounded.

Operation

Signal outputs



Type Code



Release date: 2020-04-23 Date of issue: 2020-04-23 Filename: t2440_eng.pdf