

Incremental rotary encoder

RVI58N-032YYA31N-Y0200:02

- Industrial standard housing Ø58 mm
- 200 ppr
- Servo flange
- 10 V ... 30 V with short-circuit proof push-pull output
- Fault indication output*
- SAP No. 1013458



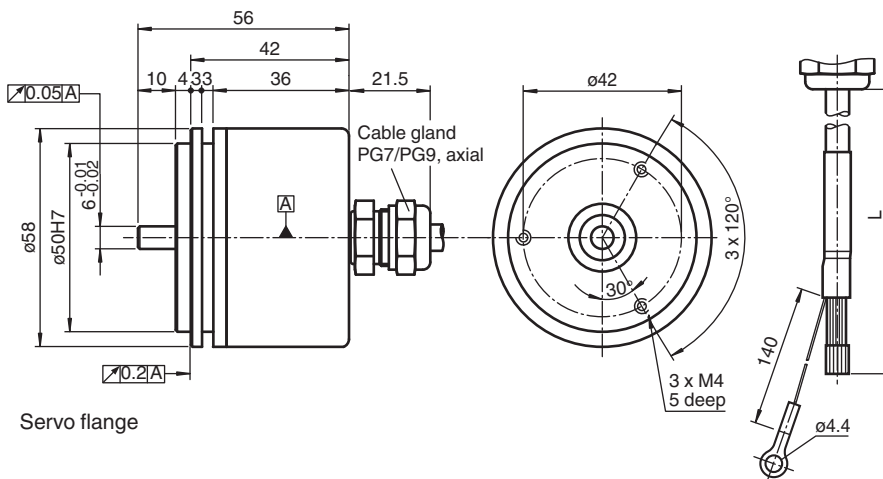
Function

Compatibility says it all for this incremental rotary encoder. Three output channels are fitted for this incremental rotary encoder. It can thus be used universally in many different applications. The pulse disk is designed in glass.

This incremental rotary encoder is available in servo flange design with a shaft 6 mm in diameter x 10 mm.

* Error signal at light beam failure, break of leads or overloading of the output driver.

Dimensions



Technical Data

General specifications

Pulse count	200
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Functional safety related parameters

MTTF _d	140 a
Mission Time (T _M)	20 a
L ₁₀	70 E+9 at 6000 rpm
Diagnostic Coverage (DC)	0 %

Output

Output type	push-pull, incremental
Voltage drop	U _d < 3 V
Operating voltage	10 ... 30 V DC
No-load supply current	max. 60 mA
Load current	max. per channel 40 mA , short-circuit prtected (not with U _b), reverse polarity protected
Output frequency	max. 200 kHz

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

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Technical Data

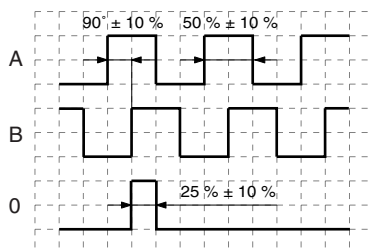
Rise time	400 ns
Fault indication output	
Interference condition	low level
Output type	open collector with pull-up resistor (5.6 k Ω against +U _b)
Load current	-40 mA
Connection	
Cable	Ø5 mm, 6 x 0,14 mm ² , L = 1,3 m with Harting pins (Nr.09150006307)
Standard conformity	
Degree of protection	DIN EN 60529, IP65
Climatic testing	DIN EN 60068-2-3, no moisture condensation
Emitted interference	EN 61000-6-4:2007/A1:2011
Noise immunity	EN 61000-6-2:2005
Shock resistance	DIN EN 60068-2-27, 100 g, 3 ms
Vibration resistance	DIN EN 60068-2-6, 10 g, 10 ... 2000 Hz
Ambient conditions	
Operating temperature	-5 ... 80 °C (23 ... 176 °F) , movable cable -20 ... 80 °C (-4 ... 176 °F), fixed cable
Storage temperature	-40 ... 100 °C (-40 ... 212 °F)
Mechanical specifications	
Material	
Housing	powder coated aluminum
Flange	3.1645 aluminum
Shaft	Stainless steel 1.4305 / AISI 303
Mass	approx. 350 g
Rotational speed	max. 12000 min ⁻¹
Moment of inertia	≤ 25 gcm ²
Starting torque	≤ 1.5 Ncm
Shaft load	
Axial	40 N at max. 6000 min ⁻¹ 10 N at max. 12000 min ⁻¹
Radial	60 N at max. 6000 min ⁻¹ 20 N at max. 12000 min ⁻¹

Connection

Signal	Cable Ø5 mm, 6-core
GND	Grey
U_b	Brown
A	White
B	Green
0	Yellow
Error	Pink

Operation

Signal outputs



↺ cw - in view of the shaft