

Cable pull rotary encoder

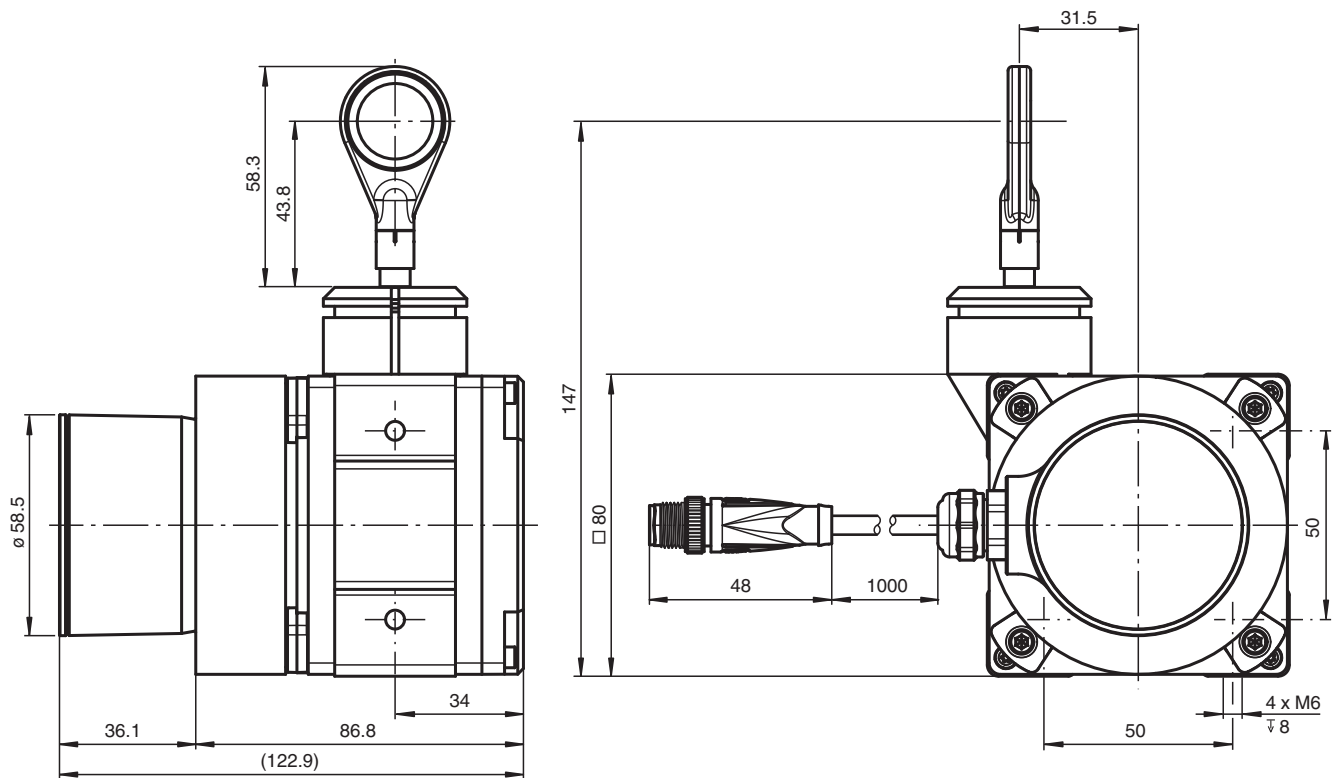
ECI30PL-01A1A-UD1BY:YY

- Robust aluminum drum housing
- Rust and acid-resistant measuring cable
- Bellows with steel tip
- Universal output driver
- 50 ppr

Cable pull rotary encoder with incremental output signals (50 pulses)



Dimensions



Technical Data

General specifications

Detection type	photoelectric sampling
Device type	Premium Line
Measuring length	1000 mm
Construction type	80 mm
Resolution	Cable pull: Design 80 mm: 4 mm Encoder: 50 pulses per revolution

Electrical specifications

Operating voltage	U_B	4.75 ... 30 V DC , Reverse polarity protection
No-load supply current	I_0	max. 50 mA

Output

Release date: 2026-04-15 Date of issue: 2026-04-15 Filename: 70202687_eng.pdf

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

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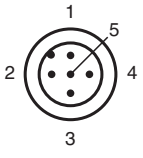
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Technical Data

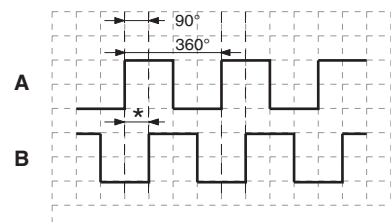
Output type	push-pull or RS422 (universal output driver, output level depending on input voltage)
Output frequency	max. 400 kHz
Rise time	300 ns
Phase position A to B	90 ° ± 9 ° electrical
Duty cycle	1/2 ± 10 %
Connection	
Fixed cable with plug	Cable with M12 x 1 connector , 5-pin , L = 1 m
Standard conformity	
Degree of protection	according DIN EN 60529
Connection side	Encoder: IP65 Cable pull: IP64
Climatic testing	DIN EN 60068-2-78 , no moisture condensation
Emitted interference	EN IEC 61000-6-4:2019
Noise immunity	EN IEC 61000-6-2:2019
Ambient conditions	
Ambient temperature	-30 ... 70 °C (-22 ... 158 °F)
Storage temperature	-30 ... 70 °C (-22 ... 158 °F)
Relative humidity	98 % , no moisture condensation
Mechanical specifications	
Rope diameter	1.35 mm
Drum perimeter	200.1 mm
Retraction speed	4 m/s
Spring retraction force	5 ... 15 N
Material	
Cable pull	anodized aluminum
Rotary encoder	powder coated aluminum
Flange	aluminum, blank
Rope	Stainless steel 1.4401/316
Mass	1900 g
Life span	up to 10 ⁶ Cycles

Connection

Signal	Connector M12 x 1, 5-pin
GND	3
U _b	1
A	2
B	4
Z	-
Shielding	Housing
	

Operation

Signal outputs



↺ ccw - with view onto the shaft
phase relationships electrical
* 1 Measuring step is 90° electrical