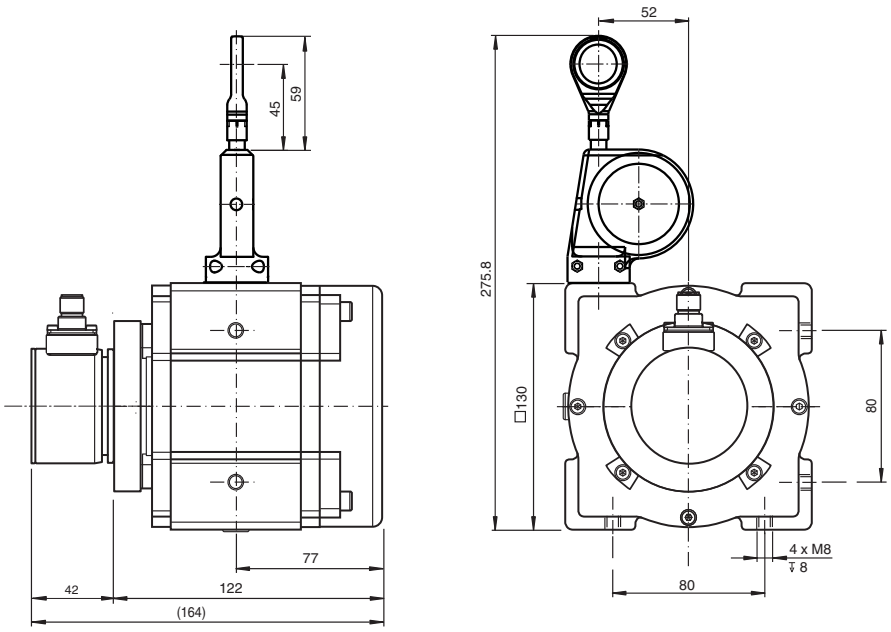
Cable pull rotary encoder
ECI30PL-05A4A-UD1BE:02

- Robust aluminum drum housing
- Guide pulley for guide
- Rust and acid-resistant measuring cable
- 1024 pulses, incremental

Cable pull rotary encoder with incremental output signals (1024 pulses)

CE

Dimensions



Technical Data

General specifications		
Detection type		photoelectric sampling
Device type		Performance Line
Measuring range		5000 mm
Construction type		130 mm
Resolution		Cable pull: Design 130 mm: 0.32 mm Encoder: 1024 pulses per revolution
Electrical specifications		
Operating voltage	U_B	4.75 ... 30 V DC
No-load supply current	I_0	max. 50 mA
Output		
Output type		push-pull or RS422 (universal output driver, output level depending on input voltage)
Output frequency		max. 400 kHz

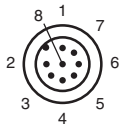
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Technical Data

Rise time		300 ns
Phase position A to B		
Pulse counts < 3600		90 ° ± 9 ° electrical
Pulse counts ≥ 3600		90 ° ± 15 ° electrical
Duty cycle		1/2 ± 10 %
Connection		
Connector		M12 connector, 8-pin
Standard conformity		
Degree of protection		acc. DIN EN 60529
Connection side		Encoder: IP65 Cable pull: IP64
Climatic testing		DIN EN 60068-2-3, no moisture condensation
Emitted interference		EN 61000-6-4:2007
Noise immunity		EN 61000-6-2:2005
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		334.1 mm
Retraction speed		4 m/s
Spring retraction force		15 ... 21 N
Material		
Housing		aluminum, coated
Cable pull		anodized aluminum
Flange		anodized aluminum
Rope		Stainless steel 1.4401/316
Mass		2888 g
Life span		up to 10^6 Cycles

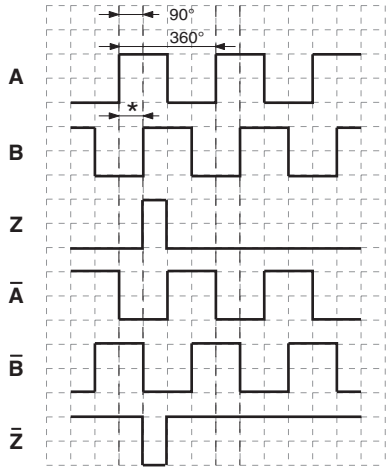
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Connection

Signal	Connector M12 x 1, 8-pin
GND	1
U_b	2
A	3
B	5
$\overline{A}$	4
$\overline{B}$	6
Z	7
$\overline{Z}$	8
NC	-
NC	-
NC	-
NC	-
Shielding	Housing
	

Operation

Signal outputs



↻ cw - with view onto the shaft
phase relationsships electrical
* 1 Measuring step is 90° electrical

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