

Cable pull rotary encoder

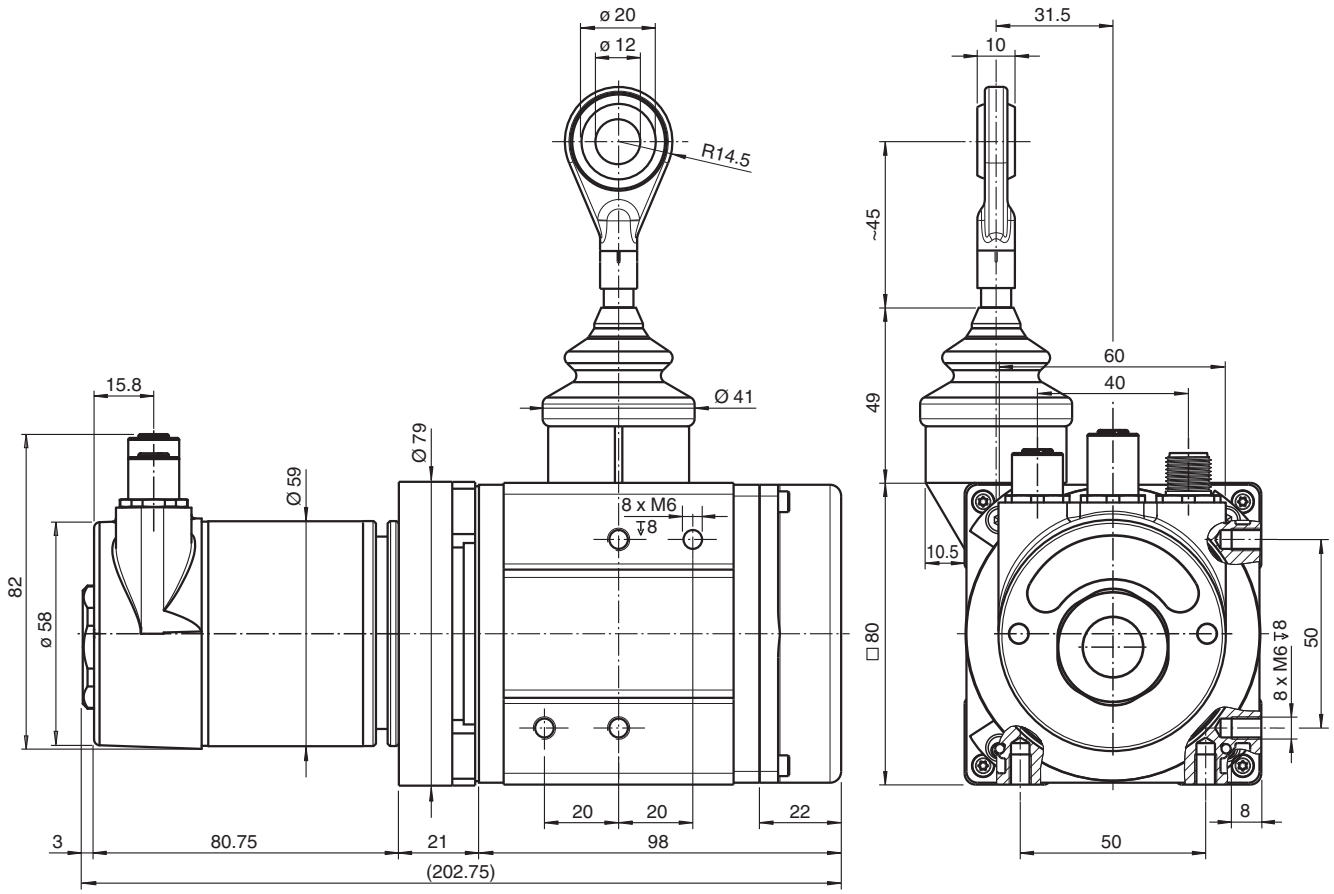
ECA30PL-03C1A-B25AY:OE:01

- Rust and acid-resistant measuring cable
- Robust aluminum drum housing
- Resolution: 13 singleturn, 12 bit multiturn

Cable pull rotary encoder with EtherNet/IP interface

CE EtherNet/IP™

Dimensions



Technical Data

General specifications	
Detection type	photoelectric sampling
Device type	Performance Line

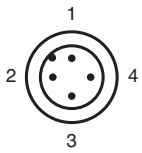
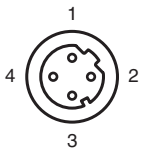
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Technical Data

Measuring range		3000 mm
Construction type		80 mm
Electrical specifications		
Operating voltage	U_B	10 ... 30 V DC
No-load supply current	I_0	≥ 350 mA
Interface		
Interface type		EtherNet/IP
Resolution		
Single turn		13 Bit
Multiturn		12 Bit
Overall resolution		25 Bit
Transfer rate		100 MBit/s
Connection		
Connector		Ethernet: 2 sockets M12 x 1, 4-pin, D-coded Supply: 1 plug M12 x 1, 4-pin, A-coded
Standard conformity		
Degree of protection		according 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		200 mm
Retraction speed		8 m/s
Spring retraction force		7 ... 11 N
Material		
Housing		aluminum, coated
Cable pull		anodized aluminum
Flange		anodized aluminum
Rope		Stainless steel 1.4401/316
Mass		1870 g
Life span		up to 10^6 Cycles

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Connection

Pin	Male connector M12 x 1, 4-pin, A-coded	Female connector M12 x 1, 4-pin, D-coded
1	Supply voltage +U_B	Tx +
2	-	Rx +
3	0 V	Tx -
4	-	Rx -
		

Indication

Diagnostic LEDs

LED	Color	Description for LED = ON
Active1	Yellow	Incoming and outgoing data traffic for port 1
Link1*	Green	Connection to other Ethernet devices on port 1
Active2	Yellow	Incoming and outgoing data traffic for port 2
Link2*	Green	Connection to other Ethernet devices on port 2
Stat1	Green	Status 1, details see table below
Stat2	Red	Status 2, details see table below

* flashes with 2 Hz if engineering identification call is activated and link connection is available

Stat1 (green)	Stat2 (red) bus failure	Meaning	Cause
off	off	No power	
on	on	No connection to another deviceCriteria: no data exchange	• bus disconnected • Master not available / switched off
on	flashes [1)]	Parameterization fault, no data exchange Criteria: data exchange correct. However, the slave did not switch to the data exchange mode.	• Slave not configured yet or wrong configuration • Wrong station address assigned (but not outside the permitted range) • Actual configuration of the slave differs from the nominal configuration
on	off	Data exchange. Slave and operation ok.	

1) flashing frequency 0.5 Hz for at least 3 seconds

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