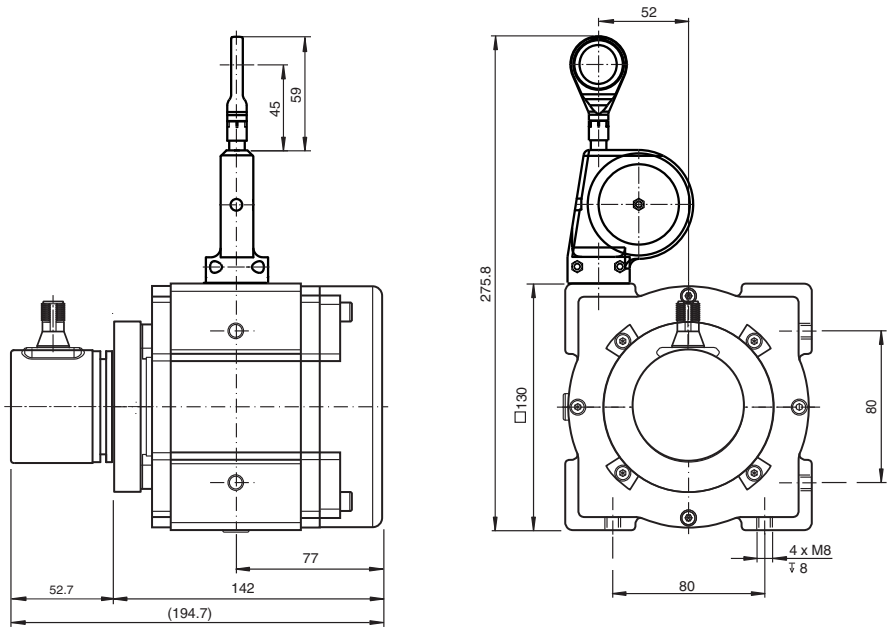
Cable pull rotary encoder
ECA30PL-05A4A-Y16BD:NN:01

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

Cable pull rotary encoder with CANopen interface

Dimensions



Technical Data

General specifications		
Detection type		magnetic sampling
Device type		Performance Line
Measuring range		5000 mm
Construction type		130 mm
Resolution		Cable pull: Design 130 mm: 0.04 mm Encoder: 25 Bit (13 Bit/revolution)
Electrical specifications		
Operating voltage	U_B	9 ... 30 V DC
No-load supply current	I_0	≥ 350 mA
Interface		
Interface type		CANopen
Resolution		
Single turn		13 Bit

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Technical Data

Multiturn	12 Bit
Overall resolution	25 Bit
Transfer rate	max. 1 MBit/s
Standard conformity	communication profile: DS 301 Device profiles: DS 406 and DS 417 , programmable according to class 2
Connection	
Connector	M12 connector, 5 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	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
Factory settings	
Default setting	see section "Customer-Specific Information"

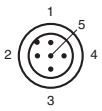
Customer-Specific Information

Default Setting CANopen Parameter

Object	Description	Value
3000h	Node-ID	1 (decimal)
3001h	Baud Rate	05h (500 kBit/s)
3002h	Terminator	01h (activated)
3003h Subindex 1h	Auto Baud Detection	0h (disabled)

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Connection

Signal	5-pin, M12 x 1 connector
CAN GND	1
$+V_S$	2
GND	3
CAN-High	4
CAN-Low	5
Shielding	Housing
Pinout	

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