



LINARIX Linear Sensor

LD0-EEA1B-1213-7W00-PRM



General Data

General Data	
Supply Voltage	10 - 30 VDC
Power Consumption	≤ 2.5 W
Turn On Time	< 1 s
Operating Temperature	-20 °C (-4 °F) - +80 °C (+176 °F)
Weight	1125 g (2.48 lb)
Protection Class (Encoder)	IP64 / IP65
EMC: Emitted Interference	DIN EN 61000-6-4
EMC: Noise Immunity	DIN EN 61000-6-2

Mechanical Data

Max. Measurement Length	7.50 m (24.61')	
Length per Revolution	333.3 mm	
Wire Material	Coated Polyamide Stainless Steel	
Wire Diameter	0.45 mm	
Encoder Housing Material	Steel	
Draw Wire Housing Material	Plastic	
Max. Wire Acceleration	1.5 g	
Max. Extension Force	13.0 N	
Min. Retraction Force	7.0 N	

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Actuation Lifetime	0.5 mio Cycles (Estimated based on ideal conditions)	
Wire Mounting	Wireclip	
Max. Wire Exit Angle	±3°	
Sensor Data		
Technology	Optical ($\leq 0.02^{\circ}$)	
Accuracy	±0.05 % FSO	
Repeatability	±0.01 % FSO	
Resolution [Encoder - Singleturn]	13 bit	
Resolution [Encoder - Multiturn]	12 bit	
Approx. Linear Resolution	40.7 μm	
Output Code	Binary	
Interface		
Communication Interface	EtherNet/IP	
Profile	CIP (Common Industrial Protocol)	
Diagnostics	Memory	
Programming Functions	Resolution, time base and filter for velocity, preset, counting direction, IP-Address	
Transmission Rate	10 / 100 Mbit	
Cycle Time Interface	≥ 1 ms	
Outputs		
Output Driver	Ethernet	
Current Consumption	≤ 230 mA @ 10 V DC, ≤ 100 mA @ 24 V DC	
Reverse Polarity Protection	Yes	
Short Circuit Protection	Yes	
MTTF	65 years @ 40 °C	
Electrical Connection		
Connection Orientation	Radial	
Connection Orientation (w.r.t Draw Wire)	Radial 0 / Axial	
Connector 1	M12, Female, 4 pin, d coded	
Connector 2	M12, Male, 4 pin, a coded	
Connector 3	M12, Female, 4 pin, d coded	

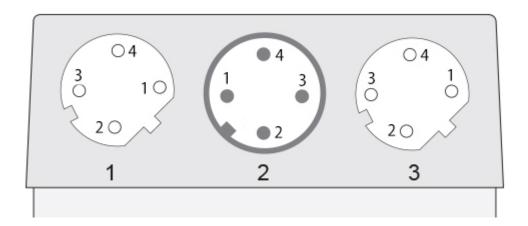




Product Life Cycle

Product Life Cycle

Established



Connection Plan

SIGNAL	CONNECTOR	PIN NUMBER	
Tx+	Connector 1	1	
Rx+	Connector 1	2	
Tx-	Connector 1	3	
Rx-	Connector 1	4	
Power Supply	Connector 2	1	
Not Connected	Connector 2	2	
GND	Connector 2	3	
Not Connected	Connector 2	4	
Tx+	Connector 3	1	
Rx+	Connector 3	2	
Tx-	Connector 3	3	
Rx-	Connector 3	4	

Connector-View on Encoder **Dimensional Drawing**

2D Drawing

Accessories

Connectors & Cables 2m PUR Cable, 4pin, D-Coded, m M12, 4pin A-Coded, Female 10m PUR Cable, 4pin, D-Coded, m 10m PVC Cable, 4pin, D-Coded, m 2m PVC Cable, 4pin, D-Coded, m

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POS M12 5pin-A Female+5m PUR Cable POS M12 5pin-A Female+2m PUR Cable POS M12 5pin-A Female+10m PUR Cable M12, 4pin D-Coded, Male M12, 5pin A-Coded, Female 5m PUR Cable, 4pin, D-Coded, m More

Got questions? Need an individual solution? We are here to help!



Contact Us

All dimension in [inch] mm. Encoder dimensions may vary depending on electrical interface and connector. This drawing and the information contained is for general presentation purposes only. Please refer to the "Download" section for detailed technical drawings. © FRABA B.V., All rights reserved. We do not assume responsibility for technical inaccuracies or omissions. Specifications are subject to change without notice.

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