



LINARIX Linear Sensor

LU0-C901B-1213-2S00-PRM



General Data

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Supply Voltage	9 – 30 VDC	
Power Consumption	≤ 1.2 W	
Turn On Time	<500 ms	
Operating Temperature	-20 °C (-4 °F) - +80 °C (+176 °F)	
Weight	455 g (1.00 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	2.40 m (7.87')	
Length per Revolution	150.8 mm	
Wire Material	Coated Polyamide Stainless Steel	
Wire Diameter	0.45 mm	
Encoder Housing Material	Steel	
Draw Wire Housing Material	Plastic	
Max. Speed of Wire Displacement	1.0 m / s	
Max. Wire Acceleration	5.0 g	
Max. Extension Force	7.0 N	

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Min. Retraction Force	1.0 N	
Actuation Lifetime	1.0 mio Cycles (Estimated based on ideal conditions)	
Wire Mounting	Wireclip	
Max. Wire Exit Angle	±3°	
Sensor Data		
Technology	Magnetic (≤ 0.09°)	
Accuracy	± 0.10 % FSO	
Repeatability	±0.04 % FSO	
Resolution [Encoder - Singleturn]	13 bit	
Resolution [Encoder - Multiturn]	12 bit	
Approx. Linear Resolution	18.4 μm	
Output Code	Binary	
Interface	CAE 11020	
Communication Interface	SAE J1939	
Profile Profile	J1939 specific	
Programming Functions Manual Functions	Resolution, preset, direction, node ID, baud rate	
	Programmable	
Transmission Rate	min. 20 kBaud, max. 1 MBaud	
Cycle Time Interface	≥ 1 ms	
Outputs		
Output Driver	Transceiver (ISO 11898), Galvanically Isolated by Opto-Coupl	
Current Consumption	≤ 70 mA @ 10 V DC, ≤ 50 mA @ 24 V DC	
Reverse Polarity Protection	Yes	
Short Circuit Protection	Yes	

Electrical Connection

MTTF

Connection Orientation	Radial
Connection Orientation (w.r.t Draw Wire)	Radial 0 / Axial
Connection Type	Cable / Connector
Connector	M12, Male, 5 pin, a coded

240 years @ 40 °C

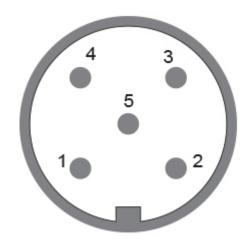
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Product Life Cycle

Product Life Cycle	New	
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Connection Plan

SIGNAL	PIN NUMBER
Power Supply	2
GND	3
CAN High	4
CAN Low	5
CAN GND	1

Connector-View on Encoder

Dimensional Drawing

2D Drawing

Accessories

Connectors & Cables
POS M12 5pin-A Female+5m PUR Cable
POS M12 5pin-A Female+2m PUR Cable
POS M12 5pin-A Female+10m PUR Cable
10m PUR Cable, 5pin, A-Coded, f IP69K
M12, 5pin A-Coded, Female
More

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

Sold & Serviced By:



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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.