



## LINARIX Linear Sensor

LU0-EC00B-1213-2S00-PRM



#### **General Data**

10 - 30 VDC
≤ 2.5 W
< 1 s
-20 °C (-4 °F) - +80 °C (+176 °F)
545 g (1.20 lb)
IP64 / IP65
DIN EN 61000-6-4
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	
Communication Interface	Ethercat
Profile	CoE (CANopen over EtherCAT, DS-301+DS-406)
Programming Functions	Resolution, preset, counting direction
Transmission Rate	10 / 100 Mbit
Cycle Time Interface	≥ 80 µs
Outputs	
Output Driver	Ethernet
Current Consumption	≤ 230 mA @ 10 V DC, ≤ 100 mA @ 24 V DC
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes
Electrical Lifetime	>10 <sup>5</sup> h
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

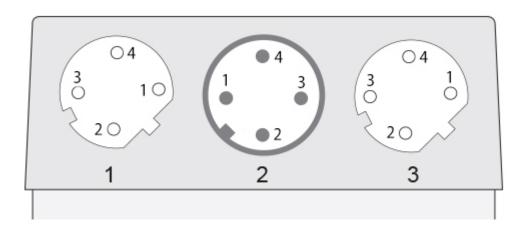
## **Product Life Cycle**





#### Product Life Cycle

New



#### **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 5m PVC Cable, 4pin, D-Coded, m POS M12 5pin-A Female+5m PUR Cable Data Sheet

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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!

Sold & Serviced By: Canadian and International Sales ELECTROMATE 877-737-8698 sales@electromate.com www.electromate.com

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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