



# **LINARIX Linear Sensor**

# LU0-C901B-1213-3D00-PRM





### **General Data**

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Supply Voltage	9 – 30 VDC
Power Consumption	≤ 1.2 W
Turn On Time	<500 ms
Operating Temperature	-40 °C (-40 °F) - +80 °C (+176 °F)
Weight	605 g (1.33 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	3.00 m (9.84')
Length per Revolution	200 mm
Wire Material	Plastic Coated Stainless Steel
Wire Diameter	0.87 mm
Encoder Housing Material	Steel
Draw Wire Housing Material	Zinc Die-cast
Max. Speed of Wire Displacement	0.8 m / s
Max. Wire Acceleration	1.0 g
Max. Extension Force	3.0 N

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Min. Retraction Force	2.5 N
Actuation Lifetime	Not Available
Wire Mounting	M6 Thread
Max. Wire Exit Angle	±0°

#### **Sensor Data**

Technology	Magnetic (≤ 0.09°)
Accuracy	±0.012 % FSO
Repeatability	±0.005 % FSO
Resolution [Encoder - Singleturn]	13 bit
Resolution [Encoder - Multiturn]	12 bit
Approx. Linear Resolution	24.4 μm
Output Code	Binary

#### Interface

Communication Interface	SAE J1939
Profile	J1939 specific
Programming Functions	Resolution, preset, direction, node ID, baud rate
Manual Functions	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
MTTF	240 years @ 40 °C

# **Electrical Connection**

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

# **Product Life Cycle**

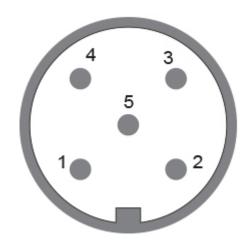
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Product Life Cycle

New



#### **Connection Plan**

CICNAL	DIN NUMBER
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!

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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.