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LINARIX Linear Sensor

LU0-C901B-1212-6E6A-ARW

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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	1315 g (2.90 lb)
Protection Class (Encoder)	IP54
EMC: Emitted Interference	DIN EN 61000-6-4
EMC: Noise Immunity	DIN EN 61000-6-2

Mechanical Data

Max. Measurement Length	6.00 m (19.69')
Length per Revolution	200 mm
Wire Material	Stainless Steel
Wire Diameter	0.54 mm
Encoder Housing Material	Steel
Draw Wire Housing Material	Aluminum / plastic
Max. Speed of Wire Displacement	3 m/s
Max. Wire Acceleration	2.4 g
Max. Extension Force	8.0 N

Data Sheet

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Min. Retraction Force	3.0 N
Actuation Lifetime	Not Available
Wire Mounting	M4 Thread

Sensor Data

Technology	Magnetic ($\leq 0.09^\circ$)
Accuracy	± 0.006 % FSO
Repeatability	± 0.003 % FSO
Resolution [Encoder - Singleturn]	12 bit
Resolution [Encoder - Multiturn]	12 bit
Approx. Linear Resolution	48.8 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 6
Connection Type	Cable / Connector
Cable Length	10 m [394"]
Wire Cross Section	0.14 mm ² / AWG 26
Material / Type	PVC
Cable Diameter	6 mm (0.24 in)



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Minimum Bend Radius	46 mm (1.81") fixed, 61 mm (2.4") flexing
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Product Life Cycle

Product Life Cycle	New
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Connection Plan

SIGNAL	CABLE COLOR
Power Supply	Red
GND	Yellow
CAN High	White
CAN Low	Brown
CAN GND	Green

Connector-View on Encoder
Dimensional Drawing

[2D Drawing](#)

Contact



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.