



LINARIX Linear Sensor

LU0-AV002-0413-2P00-PRM



General Data

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Supply Voltage	8 - 32 VDC
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	1.90 m (6.23')
Length per Revolution	150 mm
Wire Material	Coated Polyamide Stainless Steel
Wire Diameter	0.45 mm
Encoder Housing Material	Steel
Draw Wire Housing Material	Aluminum
Max. Speed of Wire Displacement	2.0 m / s
Max. Wire Acceleration	12.0 g
Max. Extension Force	5.0 N
Min. Retraction Force	3.5 N

Data Sheet

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Actuation Lifetime	1.0 mio Cycles (Estimated based on ideal conditions)
Wire Mounting	Eyelet
Max. Wire Exit Angle	$\pm 3^\circ$

Sensor Data

Technology	Magnetic ($\leq 0.09^\circ$)
Accuracy	± 0.02 % FSO
Repeatability	± 0.006 % FSO
Resolution [Encoder - Singleturn]	13 bit
Resolution [Encoder - Multiturn]	4 bit
Approx. Linear Resolution	18.3 μm
Output Code	Analog Voltage 0 - 10 V

Interface

Communication Interface	Analog Voltage
Manual Functions	Start and End point via Cable or Connector

Outputs

Outputs

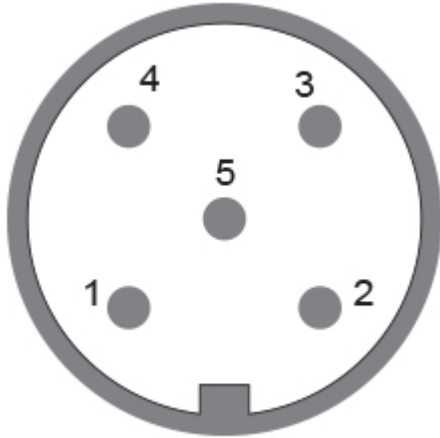
Electrical Data

Current Consumption	Typical 15 mA @24V (no load)
Min. Load Resistance	5 k Ω
Analog Accuracy	@ 10 V = ± 10 mV (with an ideal power supply)
Settling Time	32 ms (from min value to max value jump)
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes
MTTF	257.6 years @ 40 °C

Electrical Connection

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

Product Life Cycle



Connection Plan

SIGNAL	CONNECTOR	PIN NUMBER
Power Supply	Connector 1	2
GND	Connector 1	3
Analog Output	Connector 1	1
Set1/Direction	Connector 1	5
Set2/Zero Set	Connector 1	4

Connector-View on Encoder Dimensional Drawing

[2D Drawing](#)

Accessories

Connectors & Cables

- 10m PUR Cable, 5pin, A-Coded, f
- 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, 5pin A-Coded, Female

More

Displays

- AP22-D0 Analog Display (4 dig. o/p)
- DiMod-A Analog Display



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.