


LINARIX Linear Sensor
LU0-AV1P2-PPPP-2S00-PRM

General Data
General Data

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	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
Min. Retraction Force	1.0 N

Data Sheet

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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]	Programmable max. 13 bit, pre-programmed 13 bit
Resolution [Encoder - Multiturn]	Programmable max. 16 bit, pre-programmed 4 bit
Approx. Linear Resolution	0.1 mm/pulse (Default)
Output Code	Programmable Analog Voltage 0-10 V or 0.5-9.5 V, preprogrammed 0-10V
Resolution of Output	Max. 13 bits over entire measuring range (Fractional Turns - Resolution decreases less than 13 bits when measurements range is less than 90 degrees)
Multiturn Range	16 turn (default setting). User can use the UBIFAST Tool to measure up to 65536 turns.
Interface	
Communication Interface	Programmable Analog Voltage (Preset + Dir)
Programming Functions	Measurement Range, Preset Value, Output Direction, Code
Manual Functions	Preset + complement via cable or connector
Configuration Tool	UBIFAST Configuration Tool (Version ≥ 1.6.10) + Ubifast Adap
Outputs	
Outputs	
Electrical Data	
Current Consumption	Typical 15 mA @24V (no load)
Min. Load Resistance	5 kΩ
Analog Accuracy	@ 10 V = ±10 mV (with an ideal power supply)
Settling Time	32 ms (from min value to max value jump)



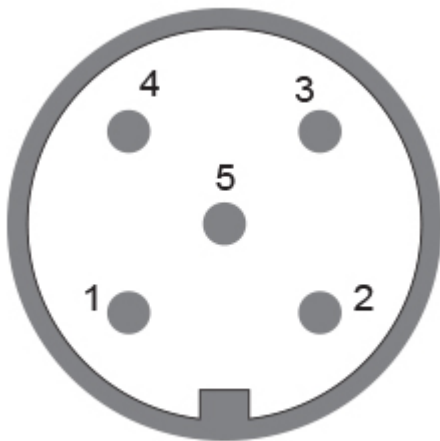
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes
MTTF	240.8 years @ 40 °C

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

Product Life Cycle	New
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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
 POS M12 5pin-A Female+5m PUR Cable

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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
Displays
AP22-D0 Analog Display (4 dig. o/p)
DiMod-A Analog Display
Configuration/Programming Tools
UBIFAST Configuration Tool
Ubifast Adapter Cable - UCD-Ax-PxM

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.