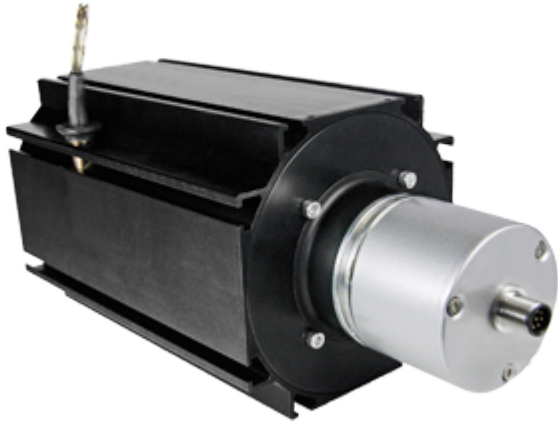




LINARIX Linear Sensor

LD0-S101B-1213-FR00-PAQ

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General Data

General Data

Supply Voltage	4.5 - 30 VDC
Power Consumption	≤ 1.5 W
Turn On Time	< 1 s
Operating Temperature	-20 °C (-4 °F) - +80 °C (+176 °F)
Weight	3770 g (8.31 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	15.00 m (49.21')
Length per Revolution	315 mm
Wire Material	Coated Polyamide Stainless Steel
Wire Diameter	1.00 mm
Encoder Housing Material	Steel
Draw Wire Housing Material	Aluminum
Max. Speed of Wire Displacement	2.0 m / s
Max. Wire Acceleration	3.0 g
Max. Extension Force	25.0 N

Data Sheet

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Min. Retraction Force	8.0 N
Actuation Lifetime	0.5 mio Cycles
Wire Mounting	Eyelet

Sensor Data

Technology	Optical ($\leq 0.02^\circ$)
Accuracy	± 0.01 % FSO
Repeatability	± 0.001 % FSO
Resolution [Encoder - Singleturn]	13 bit
Resolution [Encoder - Multiturn]	12 bit
Approx. Linear Resolution	38.5 μm
Output Code	Binary

Interface

Communication Interface	SSI with Preset
Manual Functions	Preset + complement via cable or connector
Cycle Time Interface	≥ 25 μs

Outputs

Output Driver	RS422
Clock Input	RS 422, via Optocoupler
Clock frequency	100 kHz - 2 MHz
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes
MTTF	16.2 years @ 40 °C

Electrical Connection

Connection Orientation	Axial
Connection Orientation (w.r.t Draw Wire)	Radial 0 / Axial
Connector	M12, Male, 8 pin, a coded

Product Life Cycle

Product Life Cycle	Established
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Connection Plan

SIGNAL	PIN NUMBER
Power Supply	2
GND	1
Data+	5
Data-	6
Clock+	3
Clock-	4
Preset	7
DIR	8
Shielding	Connector Housing

Connector-View on Encoder
Rotation Clockwise (seen on shaft)

Dimensional Drawing

[2D Drawing](#)

Accessories

Connectors & Cables

- 5m PUR Cable, 8pin, A-Coded, f
- 10m PUR Cable, 8pin, A-Coded, f
- 2m PUR Cable, 8pin, A-Coded, f
- 10m PUR Cable, 8pin, A-Coded, f
- M12, 8pin A-Coded, Female
- More

Data Sheet

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Displays

AP21-00 SSI Display

AP21-DA SSI Display (4 dig. + analog o/p)

DiMod-P SSI Display

Configuration/Programming Tools

SSI2USB Adapter DB15 (VA01)

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.