



LINARIX Linear Sensor

LD0-CAA1B-1213-7W90-H3P



General Data

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Supply Voltage	10 - 30 VDC
Power Consumption	≤ 2.5 W
Turn On Time	< 1 s
Operating Temperature	-40 °C (-40 °F) - +85 °C (+185 °F)
Weight	1230 g (2.71 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	7.50 m (24.61')
Length per Revolution	333.3 mm
Wire Material	Coated Polyamide Stainless Steel
Wire Diameter	0.45 mm
Encoder Housing Material	Steel
Draw Wire Housing Material	Plastic
Max. Wire Acceleration	1.5 g
Max. Extension Force	13.0 N
Min. Retraction Force	7.0 N

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Actuation Lifetime	0.5 mio Cycles
Wire Mounting	Wireclip

Sensor Data

Technology	Optical ($\leq 0.02^\circ$)
Accuracy	± 0.05 % FSO
Repeatability	± 0.01 % FSO
Resolution [Encoder - Singleturn]	13 bit
Resolution [Encoder - Multiturn]	12 bit
Approx. Linear Resolution	40.7 μm
Output Code	Binary

Interface

Communication Interface	CANopen
Profile	DS-406
Programming Functions	Resolution, preset, 2 limit switches, 8 CAMS, baud rate, CAN-Identifier, bootloader, transmission modes: polled, cyclic, sync
Manual Functions	Address selector switch 0-99 and terminal resistor (with connection cap)
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	≤ 230 mA @ 10 V DC, ≤ 100 mA @ 24 V DC
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes
MTTF	13.5 years @ 40 °C

Electrical Connection

Connection Orientation	Radial
Connection Orientation (w.r.t Draw Wire)	Radial 9
Connection Type	3 x Cable Gland

Product Life Cycle

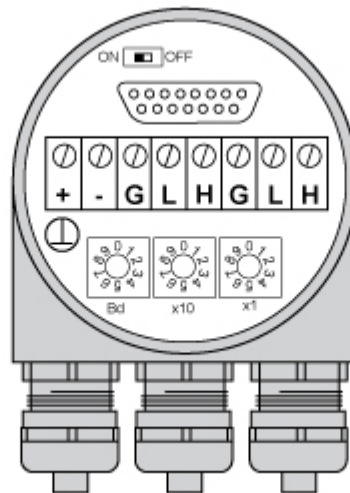
Product Life Cycle	Established
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Connection Plan

SIGNAL	PIN NUMBER
Power Supply	+
GND	-
CAN High	H
CAN Low	L
CAN GND	G
CAN High	H
CAN Low	L
CAN GND	G
GND	⊥

Connector-View on Encoder
Dimensional Drawing

[2D Drawing](#)

Contact



Contact Us

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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.