LINARIX Linear Sensor

LU0-CA01B-1213-2P00-PRM

General Data

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Supply Voltage	9 – 30 VDC
Power Consumption	≤ 1.2 W
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	±3°

Sensor Data

Technology	Magnetic (≤ 0.09°)
Accuracy	±0.02 % FSO
Repeatability	±0.006 % FSO
Resolution [Encoder - Singleturn]	13 bit
Resolution [Encoder - Multiturn]	12 bit
Approx. Linear Resolution	18.3 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
Transmission Rate	min. 20 kBaud, max. 1 MBaud
Cycle Time Interface	≥ 1 ms

Outputs

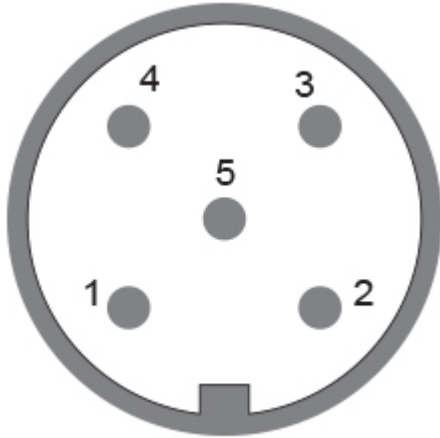| Output Driver	Transceiver (ISO 11898), Galvanically Isolated by Opto-Coupl
Current Consumption	≤ 70 mA @ 10 V DC, ≤ 50 mA @ 24 V DC
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes
MTTF	240 years @ 40 °C

Electrical Connection

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

Product Life Cycle

Connection Plan

SIGNAL	PIN NUMBER
Power Supply	2
GND	3
CAN High	4
CAN Low	5
CAN GND	1

Connector-View on Encoder
Dimensional Drawing

[2D Drawing](#)

Accessories

Connectors & Cables
POS M12 5pin-A Female+5m PUR Cable
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

POSITAL

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