LINARIX Linear Sensor

LU0-EC00B-1213-3D00-PRM

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) - +80 °C (+176 °F)
Weight	695 g (1.53 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	3.00 m (9.84')
Length per Revolution	200 mm
Wire Material	Plastic Coated Stainless Steel
Wire Diameter	0.87 mm
Encoder Housing Material	Steel
Draw Wire Housing Material	Zinc Die-cast
Max. Speed of Wire Displacement	0.8 m / s
Max. Wire Acceleration	1.0 g
Max. Extension Force	3.0 N

Min. Retraction Force	2.5 N
Actuation Lifetime	Not Available
Wire Mounting	M6 Thread
Max. Wire Exit Angle	±0°

Sensor Data

Technology	Magnetic (≤ 0.09°)
Accuracy	±0.012 % FSO
Repeatability	±0.005 % FSO
Resolution [Encoder - Singleturn]	13 bit
Resolution [Encoder - Multiturn]	12 bit
Approx. Linear Resolution	24.4 µm
Output Code	Binary

Interface

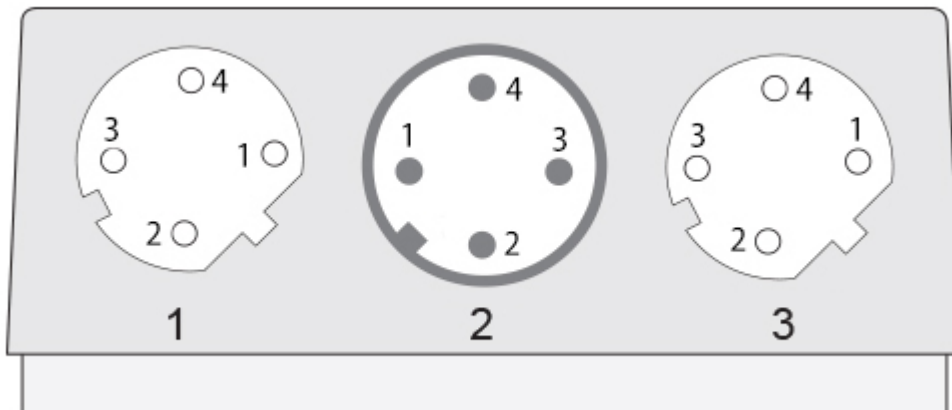| Communication Interface	Ethercat
Profile	CoE (CANopen over EtherCAT, DS-301+DS-406)
Programming Functions	Resolution, preset, counting direction
Transmission Rate	10 / 100 Mbit
Cycle Time Interface	≥ 80 µs

Outputs

Output Driver	Ethernet
Current Consumption	≤ 230 mA @ 10 V DC, ≤ 100 mA @ 24 V DC
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes
Electrical Lifetime	>10^5 h

Electrical Connection

Connection Orientation	Radial
Connection Orientation (w.r.t Draw Wire)	Radial 0 / Axial
Connector 1	M12, Female, 4 pin, d coded
Connector 2	M12, Male, 4 pin, a coded
Connector 3	M12, Female, 4 pin, d coded

Product Life Cycle

Product Life Cycle	Established

Data Sheet
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Connection Plan

SIGNAL	CONNECTOR	PIN NUMBER
Tx+	Connector 1	1
Rx+	Connector 1	2
Tx-	Connector 1	3
Rx-	Connector 1	4
Power Supply	Connector 2	1
Not Connected	Connector 2	2
GND	Connector 2	3
Not Connected	Connector 2	4
Tx+	Connector 3	1
Rx+	Connector 3	2
Tx-	Connector 3	3
Rx-	Connector 3	4

Connector-View on Encoder
Dimensional Drawing

[2D Drawing](#)

Accessories

Connectors & Cables
2m PUR Cable, 4pin, D-Coded, m
M12, 4pin A-Coded, Female
10m PUR Cable, 4pin, D-Coded, m
10m PVC Cable, 4pin, D-Coded, m
2m PVC Cable, 4pin, D-Coded, m
5m PVC Cable, 4pin, D-Coded, m
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, 4pin D-Coded, Male
M12, 5pin A-Coded, Female
5m PUR Cable, 4pin, D-Coded, m
More

Got questions? Need an individual solution? We are here to help!

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