



LINARIX Linear Sensor

LU0-EC00B-1213-2S00-PRM



General Data

| 10 - 30 VDC |
|-----------------------------------|
| ≤ 2.5 W |
| < 1 s |
| -20 °C (-4 °F) - +80 °C (+176 °F) |
| 545 g (1.20 lb) |
| IP64 / IP65 |
| DIN EN 61000-6-4 |
| 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 |
| | Data Chast |

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| Min. Retraction Force | 1.0 N |
|--|--|
| 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] | 13 bit |
| Resolution [Encoder - Multiturn] | 12 bit |
| Approx. Linear Resolution | 18.4 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 |

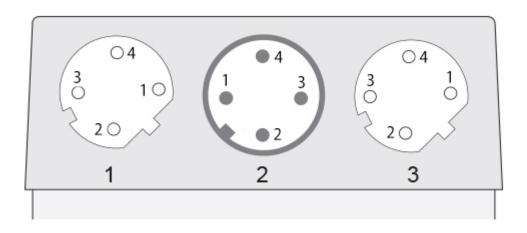
Product Life Cycle





Product Life Cycle

New



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 Data Sheet

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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!

Sold & Serviced By: Canadian and International Sales ELECTROMATE 877-737-8698 sales@electromate.com www.electromate.com

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.

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