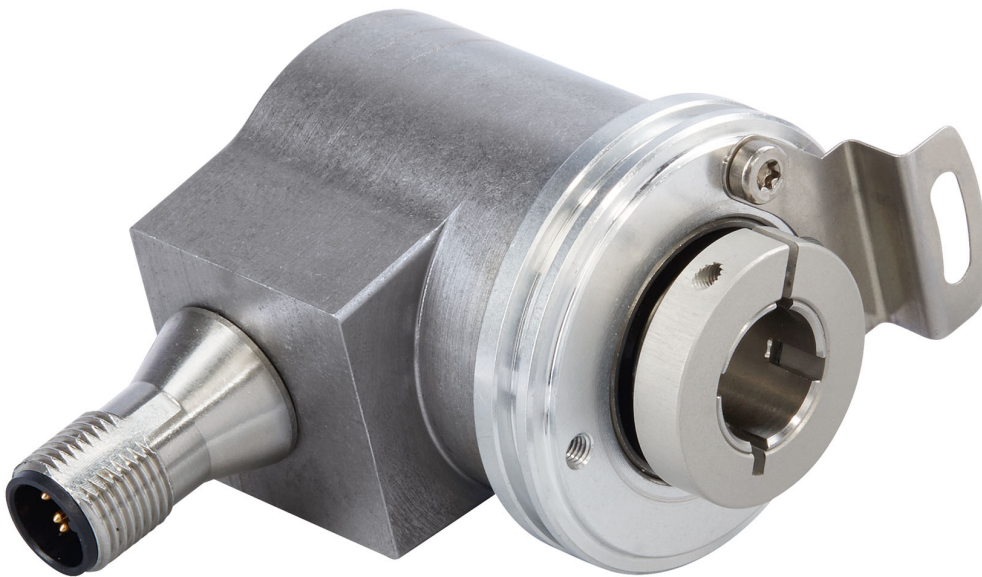


IXARC Absolute Rotary Encoder

UCD-C901B-0013-V6S0-PRV



Interface

| | |
|-----------------------|---|
| Interface | SAE J1939 |
| Profile | J1939 specific |
| Manual Functions | Programmable |
| Features | Round Axis |
| Transmission Rate | min. 20 kBaud, max. 1 MBaud |
| Interface Cycle Time | ≥ 1 ms |
| Programming Functions | Resolution, preset, direction, node ID, baud rate |

Outputs

Data Sheet

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| | |
|---------------|---|
| Output Driver | Transceiver (ISO 11898), Galvanically Isolated by Opto-Couplers |
|---------------|---|

Electrical Data

| | |
|-----------------------------|-------------------|
| Supply Voltage | 9 - 30 VDC |
| Power Consumption | ≤ 1.2 W |
| Start-Up Time | <500 ms |
| Reverse Polarity Protection | Yes |
| Short Circuit Protection | Yes |
| EMC: Emitted Interference | DIN EN 61000-6-4 |
| EMC: Noise Immunity | DIN EN 61000-6-2 |
| MTTF | 240 years @ 40 °C |

Sensor

| | |
|-----------------------|---------------------|
| Technology | Magnetic |
| Resolution Singleturn | 13 bit |
| Accuracy (INL) | ±0.0878° (≤ 12 bit) |
| Code | Binary |

Environmental Specifications

| | |
|----------------------------|------------------------------------|
| Protection Class (Shaft) | IP65 |
| Protection Class (Housing) | IP65 |
| Operating Temperature | -40 °C (-40 °F) - +85 °C (+185 °F) |
| Storage Temperature | -40 °C (-40 °F) - +85 °C (+185 °F) |
| Humidity | 98% RH, no condensation |

Mechanical Data

| | |
|-------------------------|--|
| Connection Cap Material | None |
| Housing Material | Steel |
| Housing Coating | Cathodic corrosion protection (>720 hrs salt spray resistance) |
| Flange Type | Blind Hollow, ø 36 mm / ø 42 mm |
| Flange Material | Aluminum |
| Shaft Type | Blind Hollow, Depth = 18 mm |
| Shaft Diameter | ø 6 mm (0.24") |
| Shaft Material | Stainless Steel V2A (1.4305, 303) |
| Friction Torque | ≤ 3 Ncm @ 20 °C (4.2 oz-in @ 68 °F) |

| | |
|-------------------------------------|---|
| Max. Permissible Mechanical Speed | ≤ 12000 1/min |
| Shock Resistance | ≤ 100 g (half sine 6 ms, EN 60068-2-27) |
| Permanent Shock Resistance | ≤ 10 g (half sine 16 ms, EN 60068-2-29) |
| Vibration Resistance | ≤ 10 g (10 Hz - 1000 Hz, EN 60068-2-6) |
| Length | 50,2 mm (1.98") |
| Weight | 190 g (0.42 lb) |
| Maximum Axial / Radial Misalignment | Static ± 0.3 mm /± 0.5 mm; Dynamic ± 0.1 mm /± 0.2 mm |

Electrical Connection

| | |
|------------------------|-------------------------------------|
| Connection Orientation | Radial |
| Connection Type | Cable / Connector |
| Connector | M12, Male, 5 pin, a coded, with LED |

Product Life Cycle

| | |
|--------------------|------------|
| Product Life Cycle | New |
| Approval | CE + cULus |

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

M12, 5pin A-Coded, Female

Data Sheet

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More

Clamping Rings

Clamping Ring V06

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

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Canadian and International Sales

ELECTROMATE

877-737-8698

sales@electromate.com

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sales@servo2go.com

www.servo2go.com

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