

IXARC Absolute Rotary Encoder

UCD-LK00B-1516-HASS-PRM



Interface

Interface	IO-Link Specification V1.1
Profile	Smart Sensor Profile 2nd Edition
Diagnostics	Device Status, Internal Temperature, Operating Hours Counter, Movement Hours Counter, Power Cycles Counter
Features	Position and Velocity Output, 5x SW CAM, Connector Pin 2 as Preset, Reset or HW CAM
Transmission Rate	COM3 230,4 kBaud
Interface Cycle Time	2.3 ms
Programming Functions	Singleturn and Total Resolution, Velocity Filter, Preset Value, HW and SW CAM, Counting Direction, Pin 2 I/O-Configuration

Electrical Data

Supply Voltage	18 - 32 VDC
Start-Up Time	< 1 s
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	283 years @40 °C

Sensor

Data Sheet

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Technology	Magnetic
Resolution Singleturn	16 bit
Resolution Multiturn	15 bit
Multiturn Technology	Self powered magnetic pulse counter (no battery, no gear)
Accuracy (INL)	$\pm 0.0878^\circ$ (≤ 12 bit)
Sense Signal (Default)	Clockwise shaft movement (front view on shaft)
Code	Binary

Environmental Specifications

Protection Class (Shaft)	IP66/IP67
Protection Class (Housing)	IP66/IP67
Operating Temperature	-40 °C (-40 °F) - +85 °C (+185 °F)
Humidity	98% RH, no condensation

Mechanical Data

Housing Material	Steel
Housing Coating	Wet coating (RAL 9006 White Aluminium) + Cathodic corrosion protection (>720 h salt spray resistance)
Flange Type	Blind Hollow, \varnothing 58 mm (H)
Flange Material	Aluminum
Shaft Type	Blind Hollow, Depth = 28 mm
Shaft Diameter	\varnothing 10 mm (0.39")
Shaft Material	Stainless Steel V2A (1.4305, 303)
Rotor Inertia	≤ 30 gcm ² [≤ 0.17 oz-in ²]
Friction Torque	≤ 5 Ncm @ 20 °C, (7.1 oz-in @ 68 °F)
Max. Permissible Mechanical Speed	≤ 3000 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	71,2 mm (2.80")
Weight	360 g (0.79 lb)
Maximum Axial / Radial Misalignment	Static ± 0.3 mm / ± 0.5 mm; Dynamic ± 0.1 mm / ± 0.2 mm

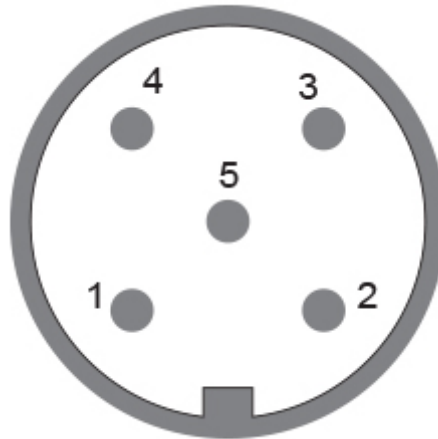
Electrical Connection

Connection Orientation	Radial
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Connector M12, Male, 5 pin, a coded

Product Life Cycle

Product Life Cycle New
 Approval CE + cULus



Connection Plan

SIGNAL	CONNECTOR	PIN NUMBER
Power Supply	Connector 1	1
GND	Connector 1	3
Digital Input / Output	Connector 1	2
IO-Link C/Q	Connector 1	4
Not Connected	Connector 1	5

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

Clamping Rings

Clamping Ring Hollow Shaft T120

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Displays

AP21-00 SSI Display

AP21-DA SSI Display (4 dig. + analog o/p)

DiMod-P SSI Display

Configuration/Programming Tools

SSI2USB Adapter DB15 (VA01)

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

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