

IXARC Absolute Rotary Encoder

UCD-M200B-1516-R060-PRM



Interface

Interface	Modbus RTU
Programming Functions	Resolution, preset, direction, node ID, baud rate

Outputs

Output Driver	Line Driver RS485
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Electrical Data

Supply Voltage	10 - 30 VDC
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	350 years @ 40 °C

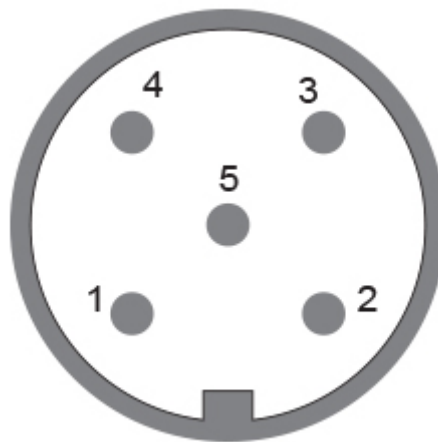
Sensor

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)

Data Sheet

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Code	Binary
Environmental Specifications	
Protection Class (Shaft)	IP65
Protection Class (Housing)	IP65
Operating Temperature	-40 °C (-40 °F) - +85 °C (+185 °F)
Humidity	98% RH, no condensation
Mechanical Data	
Housing Material	Steel
Housing Coating	Cathodic corrosion protection (>720 hrs salt spray resistance)
Flange Type	Synchro, ø 36 mm
Flange Material	Aluminum
Shaft Type	Solid, Length = 11.5 mm
Shaft Diameter	ø 6 mm (0.24")
Shaft Material	Stainless Steel V2A (1.4305, 303)
Max. Shaft Load	Axial 40 N, Radial 110 N
Minimum Mechanical Lifetime (10 ⁸ revolutions with Fa/Fr)	40 (20 N / 40 N), 14 (40 N / 60 N), 10 (40 N / 80 N), 6 (40 N / 110 N)
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	39 mm (1.54")
Weight	180 g (0.40 lb)
Electrical Connection	
Connection Orientation	Radial
Connector	M12, Male, 5 pin, a coded
Product Life Cycle	
Product Life Cycle	New
Approval	CE + cULus


Connection Plan

SIGNAL	CONNECTOR	PIN NUMBER
GND	Connector 1	3
Power Supply	Connector 1	2
Signal GND	Connector 1	1
RS485 A +	Connector 1	4
RS485 B -	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

Couplings

Coupling Bellow Type-06-06
 Coupling Bellow Type-06-10
 Coupling Bellow Type-06-(3/8")
 Coupling Bellow Type-06-(1/4")
 Coupling Jaw Type-06-06
 Coupling Jaw Type-06-10

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Coupling Jaw Type-06-08
Coupling Jaw Type-06-12
Coupling Jaw Type-06-(1/4")
Coupling Jaw Type-06-(3/8")
Coupling Disc Type-06-06
Coupling Disc Type-06-10
More
Adapter Flanges
Spring Loaded Pivot Arm 36mm
Clamping Rings
Clamp Disc w/ Eccentric Hole-4pcs
Clamp Disc w/ Centred Hole-4pcs

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

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