

## IXARC Absolute Rotary Encoder

### UCD-CA01B-0013-VAS0-PRM



#### Interface

Interface	CANopen
Profile	DS-406
Features	Round Axis
Transmission Rate	min. 20 kBaud, max. 1 MBaud
Interface Cycle Time	$\geq 1$ ms
Video Manual	<a href="#">▶ Watch a simple installation video</a>
Programming Functions	Resolution, preset, 2 limit switches, 8 CAMS, baud rate, CAN-Identifier, bootloader, transmission modes: polled, cyclic, sync

#### Outputs

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

#### Electrical Data

Supply Voltage	9 - 30 VDC
Current Consumption	$\leq 65$ mA @ 10 V DC, $\leq 60$ mA @ 24 V DC
Power Consumption	$\leq 1.2$ W
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes
EMC: Emitted Interference	DIN EN 61000-6-4
EMC: Noise Immunity	DIN EN 61000-6-2

Data Sheet

Printed at 10-11-2021 21:11

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 10 mm (0.39")
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	180 g (0.40 lb)
Maximum Axial / Radial Misalignment	Static ± 0.3 mm /± 0.5 mm; Dynamic ± 0.1 mm /± 0.2 mm

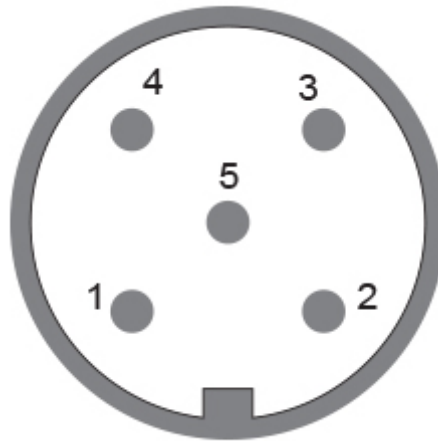
### Electrical Connection

Connection Orientation	Radial
------------------------	--------

Connection Type	Cable / Connector
Connector	M12, Male, 5 pin, a coded

### Product Life Cycle

Product Life Cycle	Established
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

10m PUR Cable, 5pin, A-Coded, f IP69K

Data Sheet

Printed at 10-11-2021 21:11

M12, 5pin A-Coded, Female  
More  
Clamping Rings  
Clamping Ring V12

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

Sold & Serviced By:

The logo for Electromate, consisting of a blue circle with a white arrow pointing clockwise.  
Canadian and International Sales  
**ELECTROMATE**  
877-737-8698  
[sales@electromate.com](mailto:sales@electromate.com)  
[www.electromate.com](http://www.electromate.com)

U.S. Sales  
**SERVO2GO.com**  
877-378-0240  
[sales@servo2go.com](mailto:sales@servo2go.com)  
[www.servo2go.com](http://www.servo2go.com)

The picture and drawing are for general presentation purposes only. Please refer to the "Download" section for detailed technical drawings. All dimension in [inch] mm. © FRABA B.V., All rights reserved. We do not assume responsibility for technical inaccuracies or omissions. Specifications are subject to change without notice.