



IXARC Incremental Encoder

OCD-INH00-XXXXX-T100-PRL



The picture is for presentation purposes only. Please refer to the detailed technical drawing at the end of the page.

Interface

Interface	Incremental
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Outputs

Output Driver	Push-Pull (HTL)
Output Incremental	A, /A, B, /B, Z, /Z
Output Voltage Low Level Push-Pull (HTL)	< 2.5 V

Electrical Data

Supply Voltage	5 - 30 VDC
Current Consumption	Typical 70 mA, Max. 150 mA
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes

Sensor

Technology	Optical
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Pulses per Revolution	1, 2, 4, 5, 6, 10, 20, 25, 29, 30, 32, 40, 50, 60, 64, 70, 72, 80, 85, 90, 100, 112, 120, 125, 128, 132, 150, 157, 158, 180, 200, 226, 250, 256, 300, 360, 375, 400, 420, 450, 480, 500, 512, 600, 667, 700, 720, 800, 1000, 1024, 1500, 1800, 2000, 2048, 2500
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Environmental Specifications

Protection Class (Shaft)	IP65
Protection Class (Housing)	IP65
Operating Temperature	-40 °C (-40 °F) - +80 °C (+176 °F)
Humidity	98% RH, no condensation

Mechanical Data

Connection Cap Material	None
Housing Material	Aluminum
Housing Coating	No Coating
Flange Type	Through Hollow Shaft , ø 58 mm
Flange Material	Aluminum
Shaft Type	Through
Shaft Diameter	ø 10 mm (0.39")
Shaft Material	Stainless Steel V2A (1.4305, 303)
Max. Shaft Load	Axial 40 N, Radial 60 N
Rotor Inertia	≤ 30 gcm ² [≤ 0.17 oz-in ²]
Friction Torque	≤ 2 Ncm @ 20 °C (2.8 oz-in @ 68 °F)
Max. Permissible Mechanical Speed	≤ 6000 1/min
Shock Resistance	≤ 100 g (half sine 6 ms, EN 60068-2-27)
Vibration Resistance	≤ 10 g (10 Hz - 2000 Hz, EN 60068-2-6)
Length	49,1 mm (1.93")
Weight	1000 g (2.20 lb)
Maximum Axial / Radial Misalignment	± 0.5 mm / ± 0.3 mm

Electrical Connection

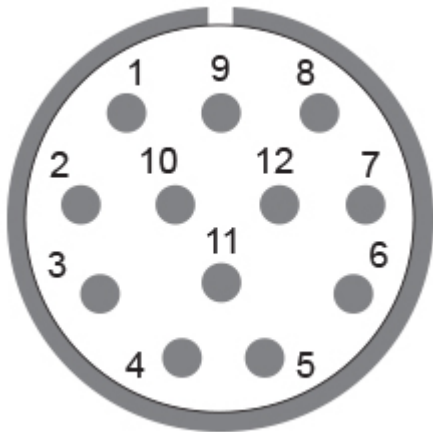
Connection Orientation	Radial
Connection Type	Cable / Connector
Connector	M23, Male, 12 pin, CCW / left

Certification



Product Life Cycle

Product Life Cycle	New
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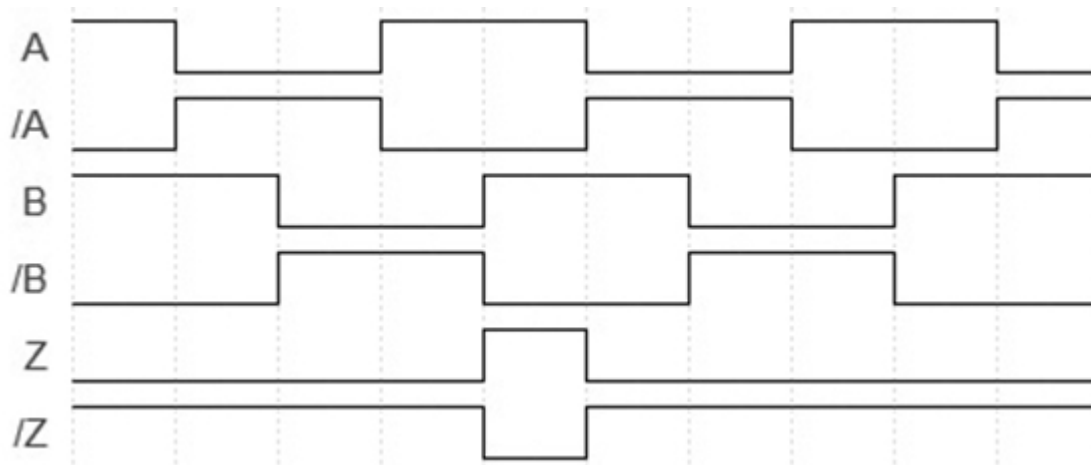


Connection Plan

SIGNAL	PIN NUMBER
Power Supply	12
GND	10
A	5
/A	6
B	8
/B	1
Z	3
/Z	4
Shielding	Connector housing

Connector-View on Encoder

Pulse Diagram



Rotation Clockwise (seen on shaft)

Dimensional Drawing

[2D Drawing](#)

Accessories

Connectors & Cables

10m PVC Cable, 12pin, Clockwise, f
 15m PVC Cable, 12pin, Clockwise, f
 1m PVC Cable, 12pin, Clockwise, f
 20m PVC Cable, 12pin, Clockwise, f
 5m PVC Cable, 12pin, Clockwise, f
 2m PVC Cable, 12pin, Clockwise, f
 M23, 12pin Clockwise, Female

More

Displays

AP20-00 Counter
 AP20-D0 Counter (4 dig. o/p)
 AP20-0A Counter (analog o/p)
 AP20-DA Counter (4 dig. + analog o/p)
 DiMod Counter (Relay o/p)

More

Torque Support

Anti-Rotation Pin (OCD-IN)
 Stator Coupling 1014 (OCD-IN)
 Tether 1018 (OCD-IN)
 Tether 1024 (OCD-IN)

Data Sheet

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Stator Coupling 1075 (OCD-IN)

Stator Coupling 1095 (OCD-IN)

More

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



Contact Us

The picture and drawing are for general presentation purposes only. Please refer to the "Download" section for detailed technical drawings.
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Specifications are subject to change without notice.