



## IXARC Incremental Encoder

**OCD-INH00-XXXXX-T120-2RW**



### 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
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

### Environmental Specifications

Data Sheet

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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 12 mm (0.47")
Shaft Material	Stainless Steel V2A (1.4305, 303)
Max. Shaft Load	Axial 40 N, Radial 60 N
Rotor Inertia	≤ 30 gcm <sup>2</sup> [≤ 0.17 oz-in <sup>2</sup> ]
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	Cable 2 m

### Certification

### Product Life Cycle

Product Life Cycle	New
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### Connection Plan

SIGNAL	CABLE COLOR
A	Yellow

Data Sheet

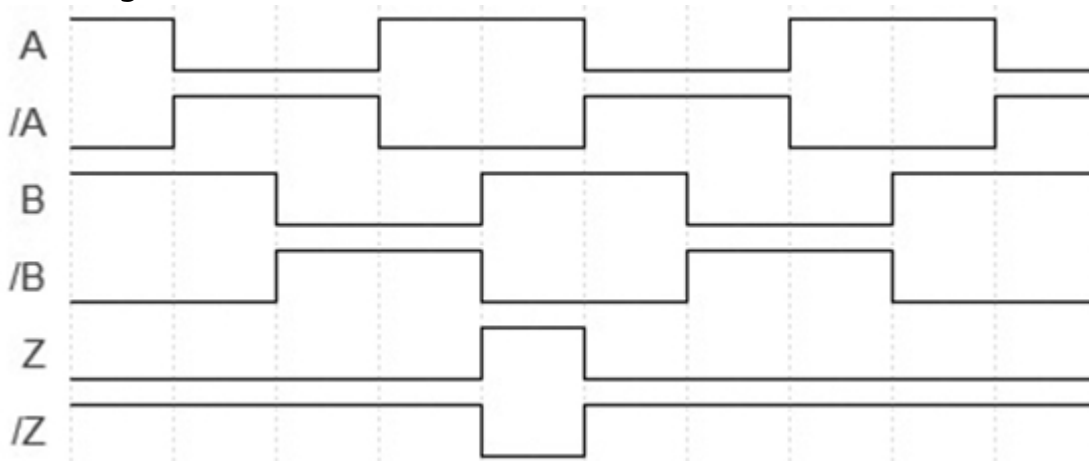
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/A	Brown
B	Green
/B	Blue
Z	
/Z	Orange
Power Supply	Red
GND	Black
Shielding	Shield

Connector-View on Encoder

### Pulse Diagram



Rotation Clockwise (seen on shaft)

### Dimensional Drawing

#### Accessories

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)

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Tether 1024 (OCD-IN)  
Stator Coupling 1075 (OCD-IN)  
Stator Coupling 1095 (OCD-IN)  
More

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



Contact Us

If the drawings are not available please refer to the "Download" section. The picture and drawing are for general presentation purposes only. 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.