



IXARC Incremental Encoder

OCD-INH00-XXXXX-T420-5RW



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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Environmental Specifications

Protection Class (Shaft)	IP65
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Data Sheet

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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 100 mm
Flange Material	Aluminum
Shaft Type	Through
Shaft Diameter	ø 42 mm (1.65")
Shaft Material	Stainless Steel V2A (1.4305, 303)
Max. Shaft Load	Axial 100 N, Radial 200 N
Rotor Inertia	≤ 1800 gcm ² [≤ 9.8 oz-in ²]
Friction Torque	≤ 4 Ncm @ 20 °C (5.7 oz-in @ 68 °F)
Max. Permissible Mechanical Speed	≤ 3500 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	52,5 mm (2.07")
Weight	1400 g (3.09 lb)
Maximum Axial / Radial Misalignment	± 0.5 mm /± 0.3 mm

Electrical Connection

Connection Orientation	Radial
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Certification

Product Life Cycle

Product Life Cycle	New
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Connection Plan

SIGNAL	CABLE COLOR
A	Yellow
/A	Brown
B	Green
/B	Blue

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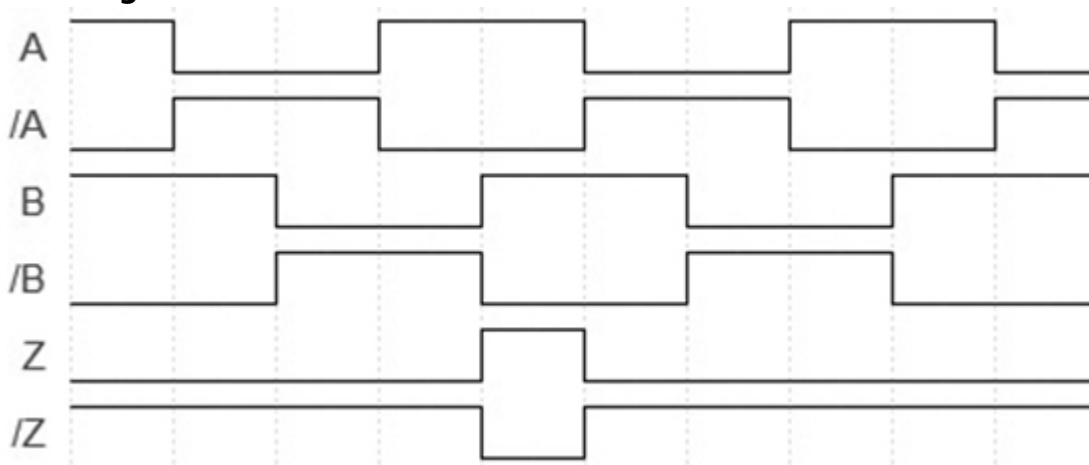
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Z	Gray
/Z	Orange
Power Supply	Red
GND	Black
Shielding	Shield

Connector-View on Encoder

Pulse Diagram



Rotation Clockwise (seen on shaft)

Dimensional Drawing

[2D 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

Tether 1025 (OCD-IN)

Stator Coupling 1108 (OCD-IN)

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Contact



Contact Us

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.