



IXARC Incremental Encoder

OCD-INS00-XXXXX-115W-TB1



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	RS 422 (TTL)
Quadrature Phasing	90° ± 4.5° electrical

Electrical Data

Supply Voltage	4.5 – 5.5 VDC
Current Consumption	Typical 40mA @ 24V (no load)
Power Consumption	≤ 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

Sensor

Technology	Optical
Accuracy (INL)	±0.002°

Data Sheet

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Environmental Specifications

Protection Class (Shaft)	IP66/IP67
Protection Class (Housing)	IP66/IP67
Operating Temperature	-40 °C (-40 °F) - +80 °C (+176 °F)
Humidity	98% RH, no condensation

Mechanical Data

Mechanical Data

Housing Material	Stainless Steel V4A (1.4404, 316 L)
Housing Coating	No Coating
Flange Type	Clamp, ø 115 mm
Flange Material	Stainless steel V4A (1.4404, 316 L)
Shaft Type	Solid, Length = 27 mm, with Key Way
Shaft Diameter	ø 11 mm (0.43")
Shaft Material	Stainless Steel V4A (1.4404, 316L)
Max. Shaft Load	Axial 250 N, Radial 350 N
Rotor Inertia	≤ 200 gcm ² [≤ 1 oz-in ²]
Friction Torque	≤ 5 Ncm @ 20 °C, (7.1 oz-in @ 68 °F)
Max. Permissible Mechanical Speed	≤ 8000 1/min
Shock Resistance	≤ 200 g (half sine 11 ms, EN 60068-2-27)
Vibration Resistance	≤ 20 g (20 Hz - 2000 Hz, EN 60068-2-6)
Length	81,5 mm (3.21")
Weight	3600 g (7.94 lb)
Minimum Mechanical Lifetime (10 ⁸ revolutions with Fa/Fr)	30 (250N/350N)

Electrical Connection

Connection Orientation	Radial
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Certification

Product Life Cycle

Product Life Cycle	Established
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Connection Plan

SIGNAL	PIN NUMBER
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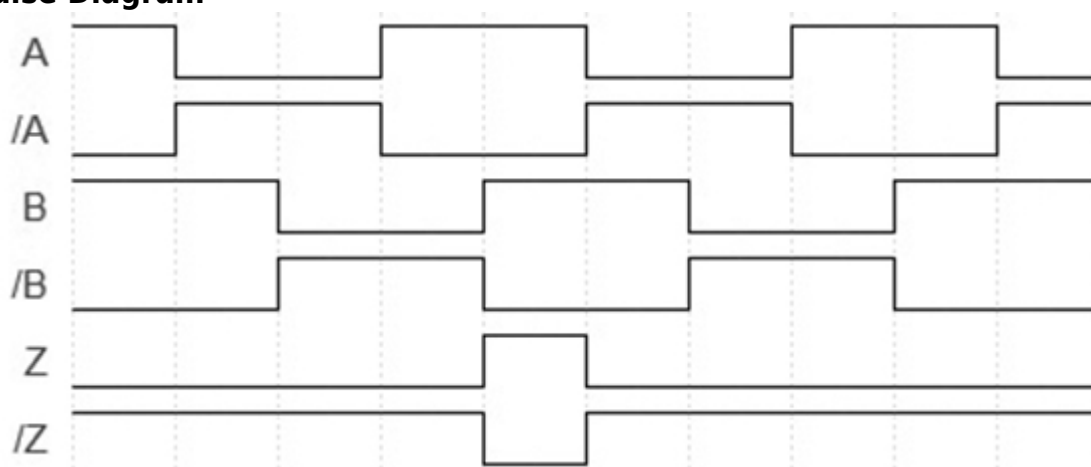
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A	4
/A	5
B	6
/B	7
Z	8
/Z	9
Power Supply	1
GND	2
Shielding	Housing

Pulse Diagram



Rotation Clockwise (seen on shaft)

Dimensional Drawing

[2D Drawing](#)

Contact



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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.