



IXARC Incremental Encoder

OCD-INS00-XXXXX-115W-TB1



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
Pulses per Revolution	360, 512, 1000, 1024, 2000, 2048, 2500
Accuracy (INL)	±0.002°

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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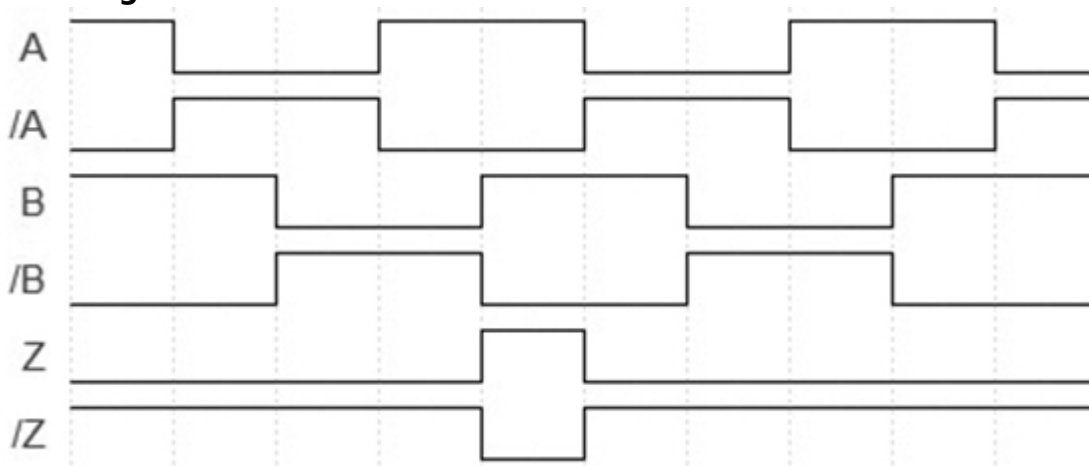
Connection Plan

SIGNAL	PIN NUMBER
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

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.