



IXARC Absolute Rotary Encoder

OCE-EEA1B-1413-W12W-HFZ



Interface

Interface	EtherNet/IP
Profile	CIP (Common Industrial Protocol)
Diagnostics	Memory
Features	Boot-Loader, Round Axis
Transmission Rate	10 / 100 Mbit
Interface Cycle Time	≥ 1 ms
Programming Functions	Resolution, time base and filter for velocity, preset, counting direction, IP-Address

Outputs

Output Driver	Ethernet
---------------	----------

Electrical Data

Supply Voltage	10 - 30 VDC
Current Consumption	≤ 230 mA @ 10 V DC, ≤ 100 mA @ 24 V DC
Power Consumption	≤ 2.5 W
Start-Up Time	< 1 s
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes
EMC: Emitted Interference	DIN EN 61000-6-4
EMC: Noise Immunity	DIN EN 61000-6-2

Data Sheet

Printed at 19-09-2019 13:09

POSITAL

FRABA



MTTF	65 years @ 40 °C
------	------------------

Sensor

Technology	Optical
Resolution Singleturn	13 bit
Resolution Multiturn	14 bit
Multiturn Technology	Mechanical Gearing (no Battery)
Accuracy (INL)	$\pm 0.0220^\circ$ (14 - 16 bit), $\pm 0.0439^\circ$ (≤ 13 bit)
Code	Binary

Environmental Specifications

Protection Class (Shaft)	IP66/IP67
Protection Class (Housing)	IP66/IP67
Operating Temperature	-40 °C (-40 °F) - +70 °C (+158 °F)
Storage Temperature	-40 °C (-40 °F) - +85 °C (+185 °F)
Humidity	98% RH, no condensation

Mechanical Data

Connection Cap Material	Stainless Steel V4A (1.4404; 316 L)
Housing Material	Stainless Steel V4A (1.4404, 316 L)
Housing Coating	No Coating
Flange Type	Synchro, \varnothing 78 mm, ATEX
Flange Material	Stainless steel V4A (1.4404, 316 L)
Shaft Type	Solid, Single Flat, Length = 20 mm
Shaft Diameter	\varnothing 12 mm (0.47")
Max. Shaft Load	Axial 50 N, Radial 50 N
Rotor Inertia	≤ 35 gcm ² [≤ 0.2 oz-in ²]
Friction Torque	≤ 3 Ncm @ 20 °C (4.2 oz-in @ 68 °F)
Max. Permissible Mechanical Speed	≤ 3000 1/min
Shock Resistance	≤ 100 g (half sine 11 ms, EN 60068-2-27)
Vibration Resistance	≤ 10 g (10 Hz - 2000 Hz, EN 60068-2-6)
Length	130 mm (5.12")
Weight	3275 g (7.22 lb)

Electrical Connection

Connection Orientation	Radial
Connection Type	2 x Blind Plug, Radial

Data Sheet

Printed at 19-09-2019 13:09



Product Life Cycle

Product Life Cycle	Established
Approval	CE + ATEX Zone 1 & 21 (Oil+Gas)

Connection Plan

Connector-View on Encoder

Dimensional Drawing

[2D Drawing](#)

Accessories

Explosion Proof Accessories

Ex-Proof Blind Plug- M20x1.5 V4A

Ex-Proof Cable Gland- M20x1.5 V4A (6.5-8mm)

Ex-Proof Cable Gland- M20x1.5 V4A (8-10mm)

Ex-Proof Cable Gland- M20x1.5 V4A (10-11.5mm)

[More](#)

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.

Data Sheet

Printed at 19-09-2019 13:09