



### IXARC Absolute Rotary Encoder

OCD-P1A1B-0016-B060-PAT



#### Interface

Interface	Bit Parallel preset
Manual Functions	Preset + complement via cable or connector
Interface Cycle Time	150 $\mu$ s

#### Outputs

Output Driver	Push-Pull
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#### Electrical Data

Supply Voltage	10 - 30 VDC
Current Consumption	$\leq 400$ mA @ 10 V DC, $\leq 180$ mA @ 24 V DC
Power Consumption	$\leq 1.5$ W
Start-Up Time	< 250 ms
Settling Time	80 ms
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes
EMC: Emitted Interference	DIN EN 61000-6-4
EMC: Noise Immunity	DIN EN 61000-6-2
MTTF	22.3 years @ 40 °C

#### Sensor

Technology	Optical
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Resolution Singleturn	16 bit
Accuracy (INL)	$\pm 0.0220^\circ$ (14 - 16 bit), $\pm 0.0439^\circ$ ( $\leq 13$ bit)
Sense Signal (Default)	Clockwise shaft movement (front view on shaft)
Code	Binary

### Environmental Specifications

Protection Class (Shaft)	IP65
Protection Class (Housing)	IP65
Operating Temperature	-40 °C (-40 °F) - +85 °C (+185 °F)
Humidity	98% RH, no condensation

### Mechanical Data

Housing Material	Steel
Housing Coating	Cathodic corrosion protection (>720 hrs salt spray resistance)
Flange Type	Blind Hollow, $\varnothing$ 58 mm (B)
Flange Material	Aluminum
Shaft Type	Blind Hollow, Depth = 30 mm
Shaft Diameter	$\varnothing$ 6 mm (0.24")
Shaft Material	Stainless Steel V2A (1.4305, 303)
Rotor Inertia	$\leq 30 \text{ gcm}^2$ [ $\leq 0.17 \text{ oz-in}^2$ ]
Friction Torque	$\leq 3 \text{ Ncm}$ @ 20 °C (4.2 oz-in @ 68 °F)
Max. Permissible Mechanical Speed	$\leq 12000 \text{ 1/min}$
Shock Resistance	$\leq 100 \text{ g}$ (half sine 6 ms, EN 60068-2-27)
Permanent Shock Resistance	$\leq 10 \text{ g}$ (half sine 16 ms, EN 60068-2-29)
Vibration Resistance	$\leq 10 \text{ g}$ (10 Hz - 1000 Hz, EN 60068-2-6)
Length	60,2 mm (2.37")
Weight	340 g (0.75 lb)

### Electrical Connection

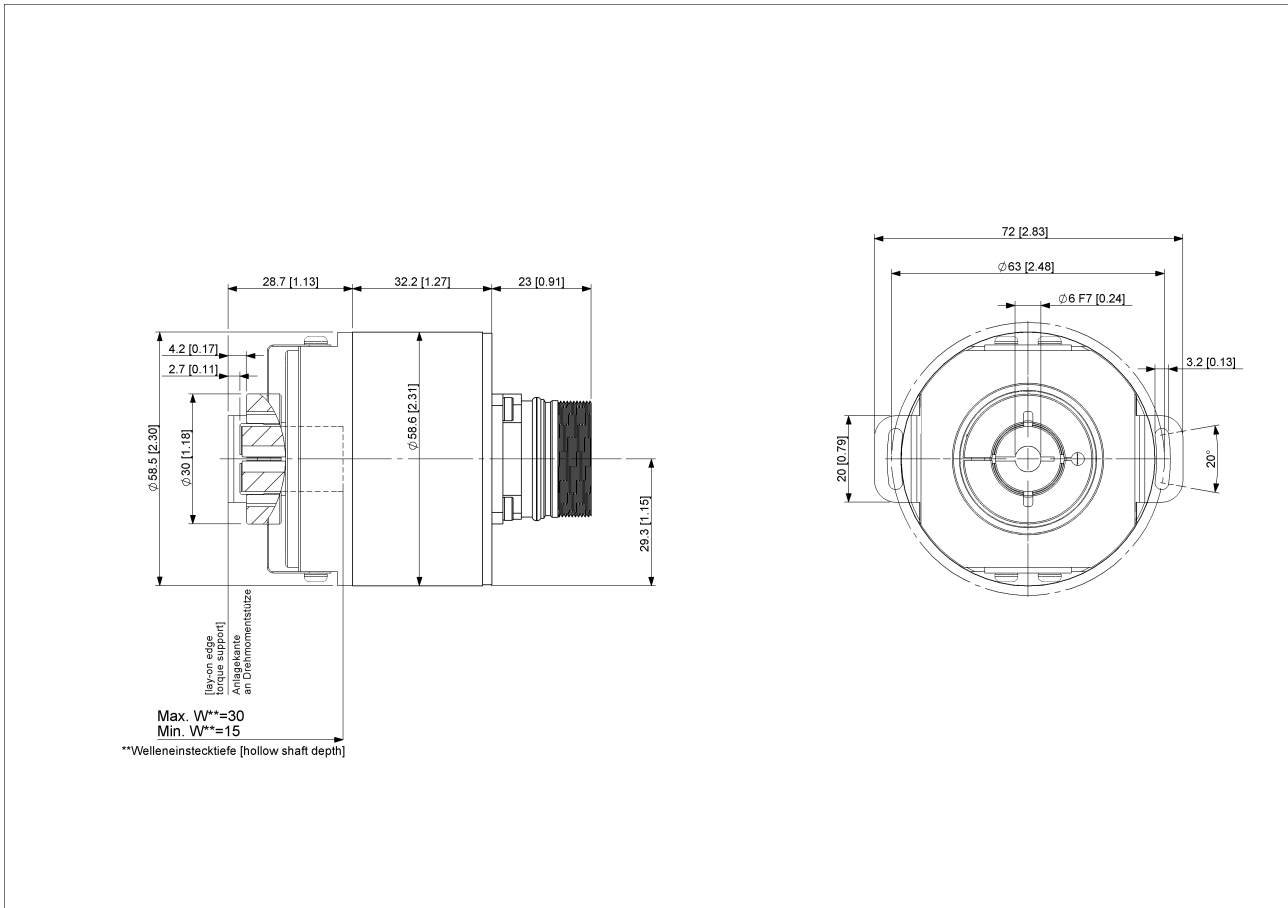
Connection Orientation	Axial
Connector	M27, Male, 26 pin

### Certification

Approval	CE + cULus listed, Industrial Control Equipment
Product Life Cycle	Established



### Connection Plan



### [2D Drawing](#)

### Accessories

#### Connectors & Cables

10m PVC Cable, 26pin, f

5m PVC Cable, 26pin, f

20m PVC Cable, 26pin, f

15m PVC Cable, 26pin, f

2m PVC Cable, 26pin, f

M27, 26pin, Female

More

Clamping Ring B15

### Contact

Data Sheet

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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.