



### IXARC Absolute Rotary Encoder

OCD-P1A1G-0016-S06S-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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## FRABA



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	Gray

### Environmental Specifications

Protection Class (Shaft)	IP66/IP67
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	Synchro, $\varnothing$ 58 mm (S)
Flange Material	Aluminum
Shaft Type	Solid, Length = 10 mm
Shaft Diameter	$\varnothing$ 6 mm (0.24")
Shaft Material	Stainless Steel V2A (1.4305, 303)
Max. Shaft Load	Axial 40 N, Radial 110 N
Minimum Mechanical Lifetime ( $10^8$ revolutions with Fa/Fr)	400 (20 N / 40 N)
Rotor Inertia	$\leq 30$ gcm <sup>2</sup> [ $\leq 0.17$ oz-in <sup>2</sup> ]
Friction Torque	$\leq 5$ Ncm @ 20 °C, (7.1 oz-in @ 68 °F)
Max. Permissible Mechanical Speed	$\leq 12000$ 1/min
Shock Resistance	$\leq 100$ g (half sine 6 ms, EN 60068-2-27)
Permanent Shock Resistance	$\leq 10$ g (half sine 16 ms, EN 60068-2-29)
Vibration Resistance	$\leq 10$ g (10 Hz - 1000 Hz, EN 60068-2-6)
Length	45,7 mm (1.80")
Weight	295 g (0.65 lb)

### Electrical Connection

Connection Orientation	Axial
Connector	M27, Male, 26 pin

### Certification



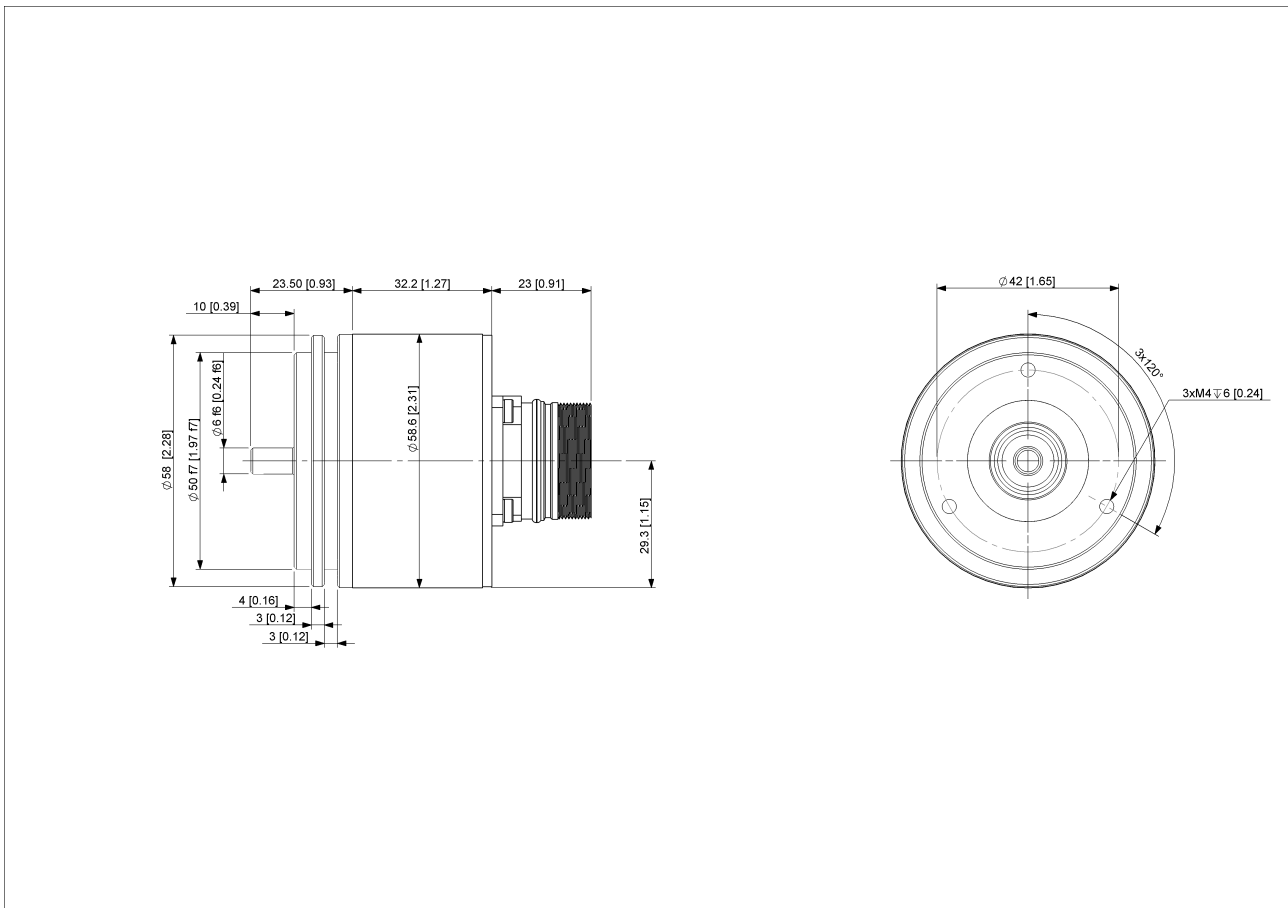
Approval

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

Data Sheet

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Clamp Disc w/ Eccentric Hole-4pcs  
Clamp Disc w/ Centred Hole-4pcs

Coupling Bellow Type-06-06  
Coupling Bellow Type-06-10  
Coupling Bellow Type-06-08  
Coupling Bellow Type-06-(3/8")  
Coupling Bellow Type-06-(1/4")  
Coupling Jaw Type-06-06  
Coupling Jaw Type-06-10  
Coupling Jaw Type-06-08  
Coupling Jaw Type-06-12  
Coupling Jaw Type-06-(1/4")  
Coupling Jaw Type-06-(3/8")  
Coupling Disc Type-06-06  
Coupling Disc Type-06-10  
More

Mounting Bracket for Synchro Flange w/ fixtures

### 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.