POSITAL
FRABA

IXARC Absolute Rotary Encoder

OCD-PPA1G-0016-B100-PAT



Interface	
Interface	Bit Parallel
Manual Functions	Counting direction via cable or connector

Outputs	
Output Driver	Push-Pull

Electrical Data	
Supply Voltage	10 – 30 VDC
Current Consumption	≤ 400 mA @ 10 V DC, ≤ 180 mA @ 24 V DC
Power Consumption	≤ 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
Resolution Singleturn	16 bit

Accuracy (INL)	±0.0220° (14 – 16 bit), ±0.0439° (≤13 bit)
Sense Signal (Default)	Clockwise shaft movement (front view on shaft)
Code	Gray

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, ø 58 mm (B)
Flange Material	Aluminum
Shaft Type	Blind Hollow, Depth = 30 mm
Shaft Diameter	ø 10 mm (0.39")
Shaft Material	Stainless Steel V2A (1.4305, 303)
Rotor Inertia	≤ 30 gcm² [≤ 0.17 oz-in²]
Friction Torque	≤ 3 Ncm @ 20 °C (4.2 oz-in @ 68 °F)
Max. Permissible Mechanical Speed	≤ 12000 1/min
Shock Resistance	≤ 100 g (half sine 6 ms, EN 60068-2-27)
Permanent Shock Resistance	≤ 10 g (half sine 16 ms, EN 60068-2-29)
Vibration Resistance	≤ 10 g (10 Hz – 1000 Hz, EN 60068-2-6)
Length	60,2 mm (2.37")
Weight	315 g (0.69 lb)

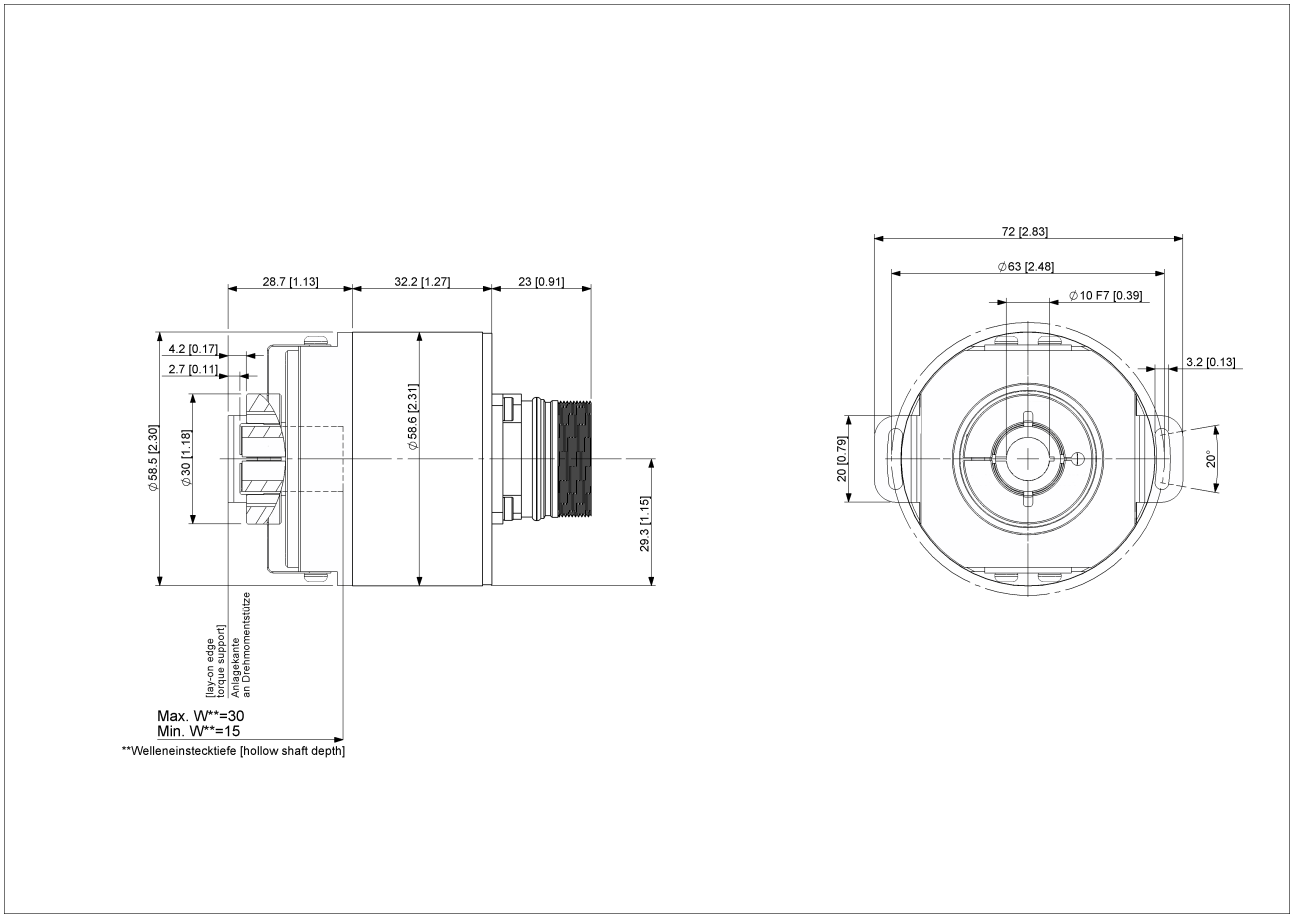
Electrical Connection

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

POSITAL
FRABA



POSITAL
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.