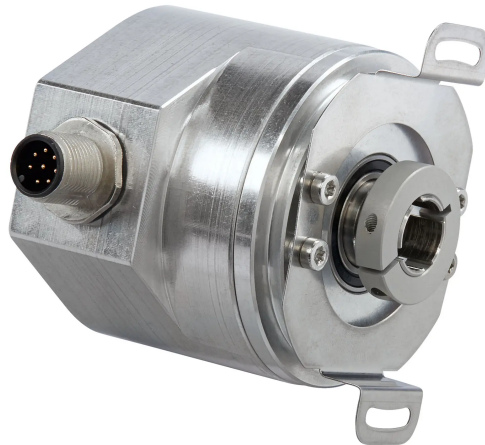




OCD-CAA1B-1213-T120-PRM



Product Description

POSITAL IXARC absolute Multiturn encoder: CANopen interface, Through Hollow Shaft , $\varnothing$ 58 mm, $\varnothing$ 12 mm (0.47") shaft and IP64 / IP65 protection class.

Interface

Interface	CANopen
Profile	DS-406
Manual Functions	Address selector switch 0-99 and terminal resistor (with connection cap)
Features	Round Axis
Transmission Rate	min. 20 kBaud, max. 1 MBaud
Interface Cycle Time	≥ 1 ms
Programming Functions	Resolution, preset, 2 limit switches, 8 CAMS, baud rate, CAN-Identifier, bootloader, transmission modes:

polled, cyclic, sync

Outputs

Output Driver

Transceiver (ISO 11898), Galvanically Isolated by Opto-Couplers

Electrical Data

Supply Voltage

10 – 30 VDC

Current Consumption

$\leq 230 \text{ mA @ } 10 \text{ V DC}$, $\leq 100 \text{ mA @ } 24 \text{ V DC}$

Power Consumption

$\leq 2.5 \text{ W}$

Start-Up Time

$< 1 \text{ s}$

Reverse Polarity Protection

Yes

Short Circuit Protection

Yes

EMC: Emitted Interference

DIN EN 61000-6-4

EMC: Noise Immunity

DIN EN 61000-6-2

MTTF

13.5 years @ 40 °C

Sensor

Technology

Optical

Resolution Singleturn

13 bit

Resolution Multiturn

12 bit

Multiturn Technology

Mechanical Gearing (no Battery)

Accuracy (INL)	±0.0220° (14 – 16 bit), ±0.0439° (≤13 bit)
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Code	Binary
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Environmental Specifications

Protection Class (Shaft)	IP65
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Protection Class (Housing)	IP65
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Min Temperature	-40 °C (-40 °F)
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Max Temperature	+85 °C (+185 °F)
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Storage Temperature	-40 °C (-40 °F) – +85 °C (+185 °F)
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Humidity	98% RH, no condensation
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Mechanical Data

Connection Cap Material	None
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Housing Material	Aluminum
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Housing Coating	No Coating
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Flange Type	Through Hollow Shaft , ø 58 mm
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Flange Material	Aluminum
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Shaft Type	Through
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Shaft Diameter	ø 12 mm (0.47")
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Shaft Material	Stainless Steel V2A (1.4305, 303)
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Rotor Inertia	≤ 30 gcm ² [≤ 0.17 oz-in ²]
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Friction Torque	≤ 3 Ncm @ 20 °C (4.2 oz-in @ 68 °F)
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Max. Permissible
Mechanical Speed

≤ 3000 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)

Weight

290 g (0.64 lb)

Maximum Axial / Radial
Misalignment

Static ± 0.3 mm /± 0.5 mm; Dynamic ± 0.1 mm /± 0.2 mm

Electrical Connection

Connection Orientation

Radial

Connection Type

Cable / Connector

Connector

M12, Male, 5 pin, a coded

Certification

Approval

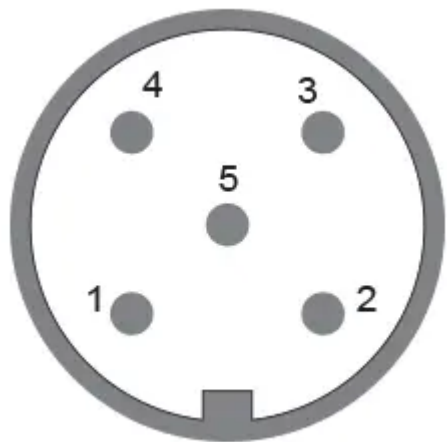
CE + cULus

Product Life Cycle

Product Life Cycle

Established

Connection Plan



Signal	Pin Number
Power Supply	2
GND	3
CAN High	4
CAN Low	5
CAN GND	1

[illegible]

Online Datasheet

