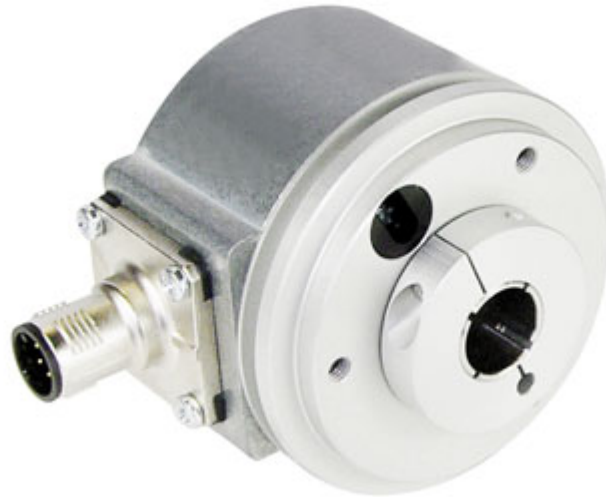




## IXARC Incremental Encoder OCD-INH00-XXXXX-T120-PRQ



The picture is for presentation purposes only. Please refer to the detailed technical drawing at the end of the page.

### Interface

|           |             |
|-----------|-------------|
| Interface | Incremental |
|-----------|-------------|

### Outputs

|  |                     |
|--|---------------------|
| Output Driver                            | Push-Pull (HTL)     |
| Output Incremental                       | A, /A, B, /B, Z, /Z |
| Output Voltage Low Level Push-Pull (HTL) | < 2.5 V             |

### Electrical Data

|                             |                            |
|-----------------------------|----------------------------|
| Supply Voltage              | 5 - 30 VDC                 |
| Current Consumption         | Typical 70 mA, Max. 150 mA |
| Reverse Polarity Protection | Yes                        |
| Short Circuit Protection    | Yes                        |

### Sensor

|            |         |
|------------|---------|
| Technology | Optical |
|------------|---------|

### Environmental Specifications

|                          |      |
|--------------------------|------|
| Protection Class (Shaft) | IP65 |
|--------------------------|------|

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|                            |                                    |
|----------------------------|------------------------------------|
| Protection Class (Housing) | IP65                               |
| Operating Temperature      | -40 °C (-40 °F) - +80 °C (+176 °F) |
| Humidity                   | 98% RH, no condensation            |

### Mechanical Data

|                                     |  |
|-------------------------------------|--|
| Connection Cap Material             | None   |
| Housing Material                    | Aluminum   |
| Housing Coating                     | No Coating   |
| Flange Type                         | Through Hollow Shaft , ø 58 mm                     |
| Flange Material                     | Aluminum   |
| Shaft Type                          | Through  |
| Shaft Diameter                      | ø 12 mm (0.47")                                    |
| Shaft Material                      | Stainless Steel V2A (1.4305, 303)                  |
| Max. Shaft Load                     | Axial 40 N, Radial 60 N                            |
| Rotor Inertia                       | ≤ 30 gcm <sup>2</sup> [≤ 0.17 oz-in <sup>2</sup> ] |
| Friction Torque                     | ≤ 2 Ncm @ 20 °C (2.8 oz-in @ 68 °F)                |
| Max. Permissible Mechanical Speed   | ≤ 6000 1/min                                       |
| Shock Resistance                    | ≤ 100 g (half sine 6 ms, EN 60068-2-27)            |
| Vibration Resistance                | ≤ 10 g (10 Hz - 2000 Hz, EN 60068-2-6)             |
| Length                              | 49,1 mm (1.93")                                    |
| Weight                              | 1000 g (2.20 lb)                                   |
| Maximum Axial / Radial Misalignment | ± 0.5 mm /± 0.3 mm                                 |

### Electrical Connection

|                        |                           |
|------------------------|---------------------------|
| Connection Orientation | Radial                    |
| Connector              | M12, Male, 8 pin, a coded |

### Certification

### Product Life Cycle

|                    |     |
|--------------------|-----|
| Product Life Cycle | New |
|--------------------|-----|

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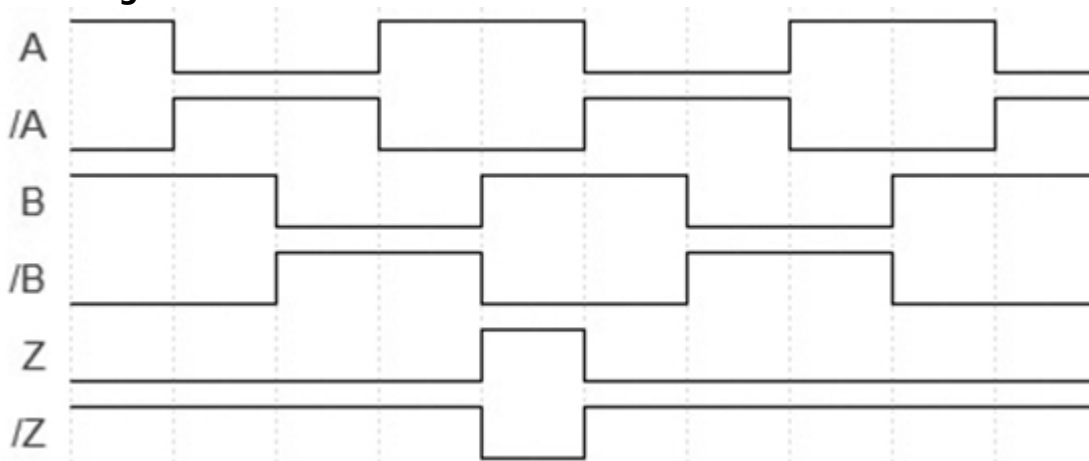


### Connection Plan

| SIGNAL       | PIN NUMBER        |
|--------------|-------------------|
| A            | 3                 |
| /A           | 4                 |
| B            | 5                 |
| /B           | 6                 |
| Z            | 7                 |
| /Z           | 8                 |
| Power Supply | 2                 |
| GND          | 1                 |
| Shielding    | Connector housing |

Connector-View on Encoder

### Pulse Diagram



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Rotation Clockwise (seen on shaft)

### **Dimensional Drawing**

#### [2D Drawing](#)

#### **Accessories**

Connectors & Cables

M12, 8pin A-Coded, Female

Displays

AP20-00 Counter

AP20-D0 Counter (4 dig. o/p)

AP20-0A Counter (analog o/p)

AP20-DA Counter (4 dig. + analog o/p)

DiMod Counter (Relay o/p)

More

Torque Support

Anti-Rotation Pin (OCD-IN)

Stator Coupling 1014 (OCD-IN)

Tether 1018 (OCD-IN)

Tether 1024 (OCD-IN)

Stator Coupling 1075 (OCD-IN)

Stator Coupling 1095 (OCD-IN)

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.

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