

**UCD-SLF2B-1616-HFS0-PAQ**



## Outputs

## Electrical Data

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### Sensor

|                        |                                                           |
|------------------------|-----------------------------------------------------------|
| Technology             | Magnetic                                                  |
| Resolution Singleturn  | 16 bit                                                    |
| Resolution Multiturn   | 16 bit                                                    |
| Multiturn Technology   | Self powered magnetic pulse counter (no battery, no gear) |
| Accuracy (INL)         | $\pm 0.0878^\circ (\leq 12 \text{ bit})$                  |
| Sense Signal (Default) | Counterclockwise shaft movement (front view on shaft)     |
| Code                   | Binary                                                    |

### Environmental Specifications

|                            |                                    |
|----------------------------|------------------------------------|
| Protection Class (Shaft)   | IP65                               |
| Protection Class (Housing) | IP66/IP67                          |
| 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 (H)                          |
| Flange Material                   | Aluminum                                                       |
| Shaft Type                        | Blind Hollow, Depth = 28 mm                                    |
| Shaft Diameter                    | $\varnothing$ 15 mm (0.59")                                    |
| Shaft Material                    | Stainless Steel V2A (1.4305, 303)                              |
| Rotor Inertia                     | $\leq 30 \text{ gcm}^2 [\leq 0.17 \text{ oz-in}^2]$            |
| Friction Torque                   | $\leq 3 \text{ Ncm @ } 20^\circ\text{C}$ (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                            | 71,2 mm (2.80")                                                |
| Weight                            | 325 g (0.72 lb)                                                |

### Electrical Connection

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

Data Sheet

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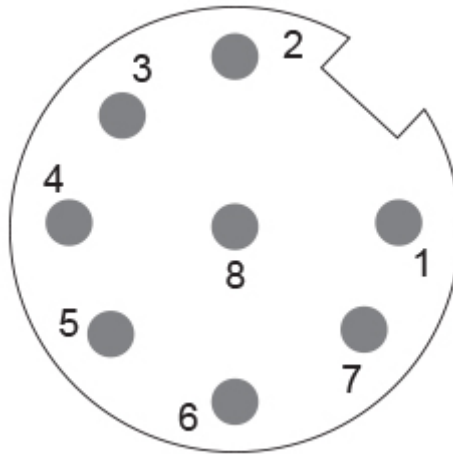


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### Certification

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



### Connection Plan

| SIGNAL       | PIN NUMBER        |
|--------------|-------------------|
| Power Supply | 2                 |
| GND          | 1                 |
| Data+        | 5                 |
| Data-        | 6                 |
| Clock+       | 3                 |
| Clock-       | 4                 |
| Shielding    | Connector housing |

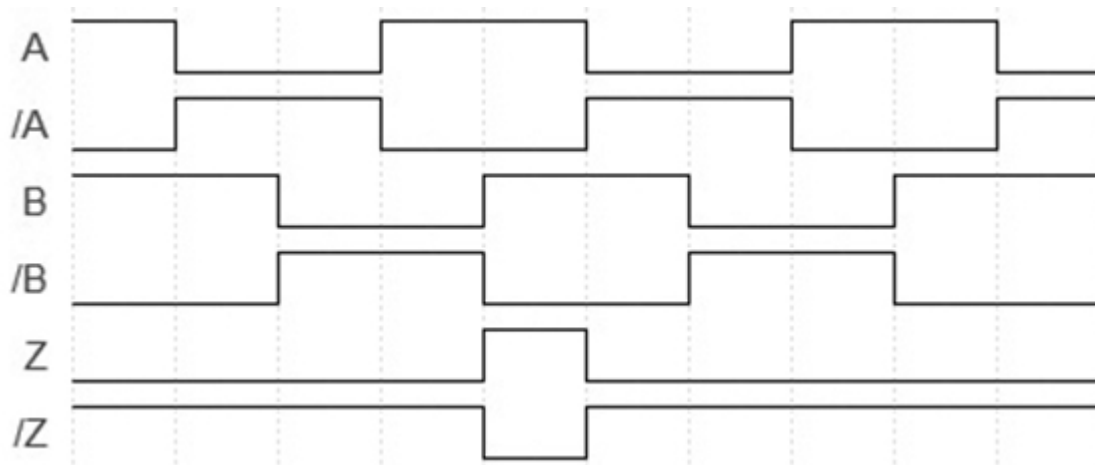
Connector-View on Encoder

### Pulse Diagram

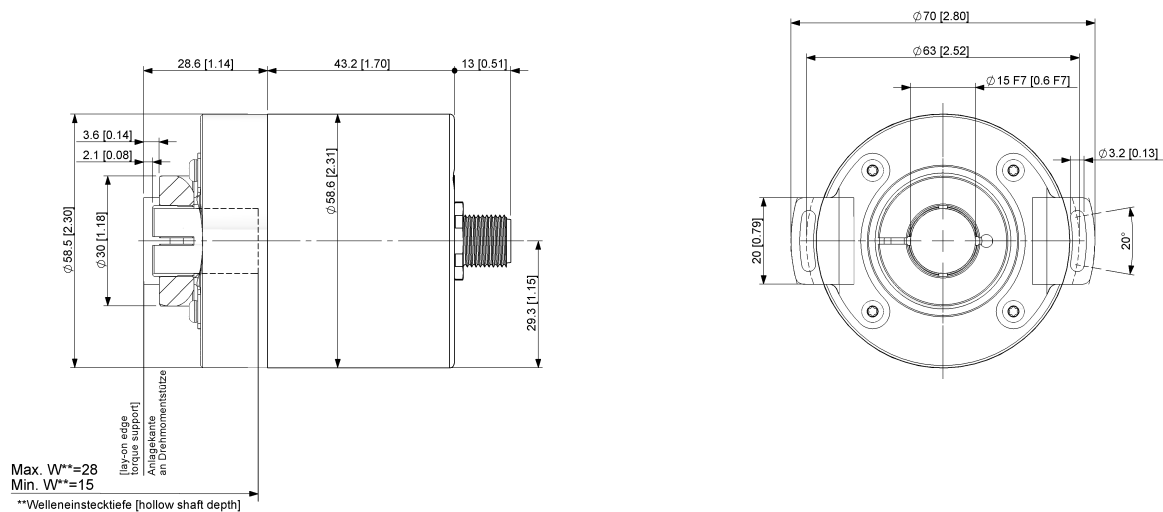


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Rotation Clockwise (seen on shaft)



### [2D Drawing](#)

### Accessories

Connectors & Cables

5m PUR Cable, 8pin, A-Coded, f

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10m PUR Cable, 8pin, A-Coded, f  
2m PUR Cable, 8pin, A-Coded, f  
10m PUR Cable, 8pin, A-Coded, f  
M12, 8pin A-Coded, Female  
More

Clamping Ring B15

### Contact



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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.