**Ruggedized Hollow shaft encoder, Incremental**

- Robust Ø58 mm encoder with hollow shaft
- Short-circuited protected outputs
- IP67 at housing, IP66 at shaft inlet

**Mechanical data**

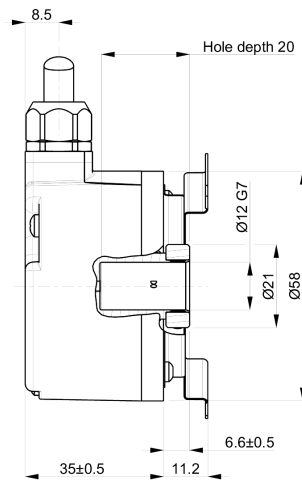
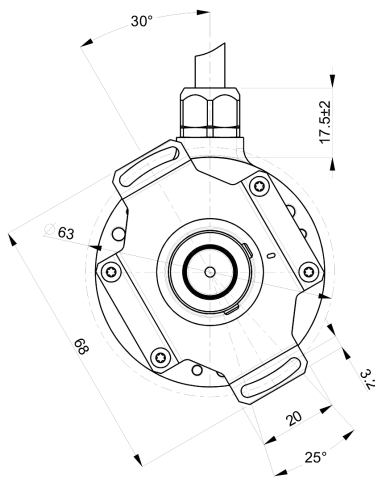
|                                      |                            |
|--------------------------------------|----------------------------|
| Operating temperature                | -40 °C...+70 °C            |
| Ingress protection class [IEC 60529] | IP67 (IP66 at shaft inlet) |
| Vibration [IEC 60068-2-64]           | ≤ 300 m/s <sup>2</sup>     |
| Shock [IEC 60068-2-27]               | ≤ 2000 m/s <sup>2</sup>    |
| Shaft load max (axial/radial)        | 10 N / 20 N                |
| Rotational speed max                 | 6000 rpm                   |
| Shaft material                       | Stainless steel            |
| Cover material                       | Aluminium (Anodized)       |
| Weight                               | 300 g                      |

**Encoder configuration**

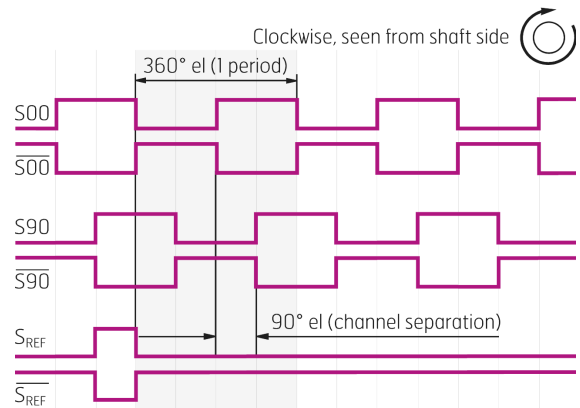
|                      |                                       |
|----------------------|---------------------------------------|
| Type                 | RHI                                   |
| Model                | 503 Standard                          |
| Shaft type           | Ø12 mm blind hollow shaft             |
| Flange type          | 58/59-flange with stator coupling     |
| Resolution           | 2048 ppr                              |
| Power supply         | 9-30 Vdc                              |
| Output signal        | RS422                                 |
| Connection type      | Cable                                 |
| Connecting direction | Radial                                |
| Cable length         | 1.50 m                                |
| Number of channels   | 6 (S00, S00\, S90, S90\, Sref, Sref\) |

**Electrical data**

|                                             |                              |
|---------------------------------------------|------------------------------|
| Polarity protected                          | Yes                          |
| Short circuit protected incremental outputs | Yes                          |
| Current consumption (No load)               | 25 mA at 24 Vdc (Max. 40 mA) |
| Incremental output load (max)               | ± 20 mA                      |
| Output frequency max                        | 300 kHz                      |
| Cable length max                            | 1000 m                       |
| Channel separation                          | 90 °el ± 25 °el              |
| Dividing error                              | ± 50 °el                     |

**Dimensions****Pin Configuration**

| Function      | Colour |
|---------------|--------|
| S90           | Green  |
| S90 inverted  | White  |
| S00 inverted  | Black  |
| S00           | Yellow |
| +E Volt       | Red    |
| 0 Volt        | Blue   |
| Sref          | Brown  |
| Sref inverted | Violet |
| STATUS        | Grey   |
| Case          | Shield |

**Output signal****Order information**

|             |           |
|-------------|-----------|
| Part number | 745127-01 |
|-------------|-----------|