**X-heavy duty Shaft encoder, Incremental**

- Performance encoder for heavy duty industries
- Euro-flange and solid shaft 11 mm with key nut
- High vibration and shock resistance

**Mechanical data**

|                                      |                            |
|--------------------------------------|----------------------------|
| Operating temperature                | -20 °C...+85 °C            |
| Ingress protection class [IEC 60529] | IP67 (IP66 at shaft inlet) |
| Vibration [IEC 60068-2-64]           | ≤ 20 g, 55-2000 Hz         |
| Shock [IEC 60068-2-27]               | ≤ 400 g, 3.5 ms            |
| Shaft load max (axial/radial)        | 500 N / 1200 N             |
| Rotational speed max                 | 6000 rpm                   |
| Shaft material                       | Stainless steel            |
| Cover material                       | Aluminium (coated)         |
| Weight                               | 1300 g                     |

**Encoder configuration**

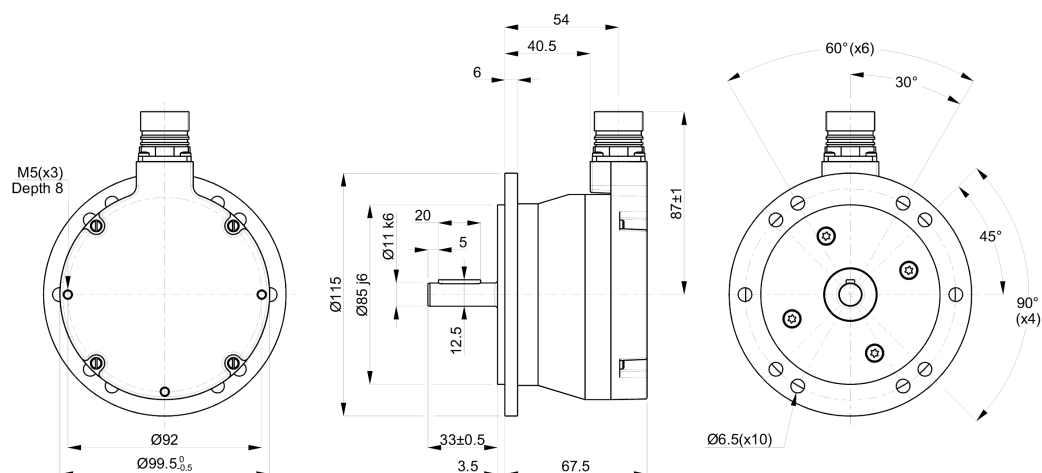
|                            |                                       |
|----------------------------|---------------------------------------|
| Code key                   | 850019156                             |
| Type                       | XSI                                   |
| Model                      | 850                                   |
| Shaft type                 | Ø11 mm with key nut                   |
| Flange type                | Euro-flange (B10-type)                |
| Resolution                 | 1024 ppr                              |
| Power supply               | 9-30 Vdc                              |
| Output signal              | High Current HTL (HCHTL)              |
| Connection type            | M23 connector 12-pin                  |
| Connecting direction       | Radial                                |
| Pin layout                 | CW                                    |
| Number of channels         | 6 (S00, S00\, S90, S90\, Sref, Sref\) |
| Advanced Diagnostic System | ADS Classic                           |



Electrical data

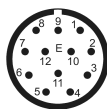
|   |                                      |
|---|--------------------------------------|
| Polarity protected                          | Yes                                  |
| Short circuit protected incremental outputs | Yes                                  |
| Current consumption (No load)               | 60 mA at 24 Vdc (Max. 80 mA)         |
| Incremental output load (max)               | ± 40 mA                              |
| Output frequency max                        | 200 kHz                              |
| Cable length max                            | 350 m at 100 kHz                     |
| Channel separation                          | 90 °el ± 25 °el                      |
| Dividing error                              | ± 50 °el                             |
| MTTFd value [Years]                         | 417                                  |
| PFHd value [h-1]                            | 9,25E-07                             |
| ADS PC Communication                        | PC communication via RS-232 max 10 m |

## Dimensions

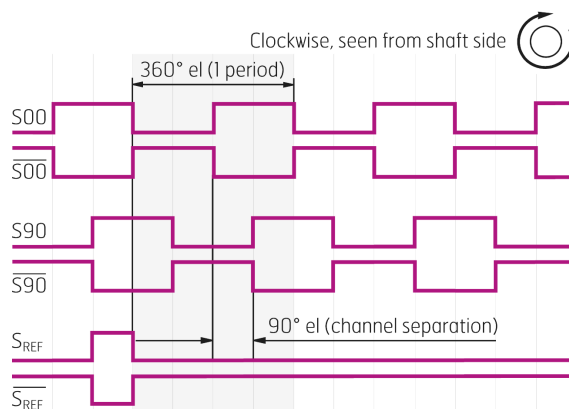


## Pin Configuration

| Function           | Pin |
|--------------------|-----|
| +E Volt            | 12  |
| 0 Volt             | 10  |
| 0 (Sref)           | 3   |
| 0 inverted (Sref\) | 4   |
| 1 (S90)            | 8   |
| 1 inverted (S90\)  | 1   |
| 2 (S00)            | 5   |
| 2 inverted (S00\)  | 6   |
| Alarm +            | 9   |
| Alarm -            | 11  |
| RXD                | 7   |
| TXD                | 2   |



## Output signal



## Order information

|             |           |
|-------------|-----------|
| Part number | 759351-02 |
|-------------|-----------|