

### Ruggedized Shaft encoder, Incremental

- Robust encoder with solid 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)        | 50 N / 60 N                |
| Rotational speed max                 | 6000 rpm                   |
| Shaft material                       | Stainless steel            |
| Cover material                       | Aluminium (Anodized)       |
| Weight                               | 300 g                      |

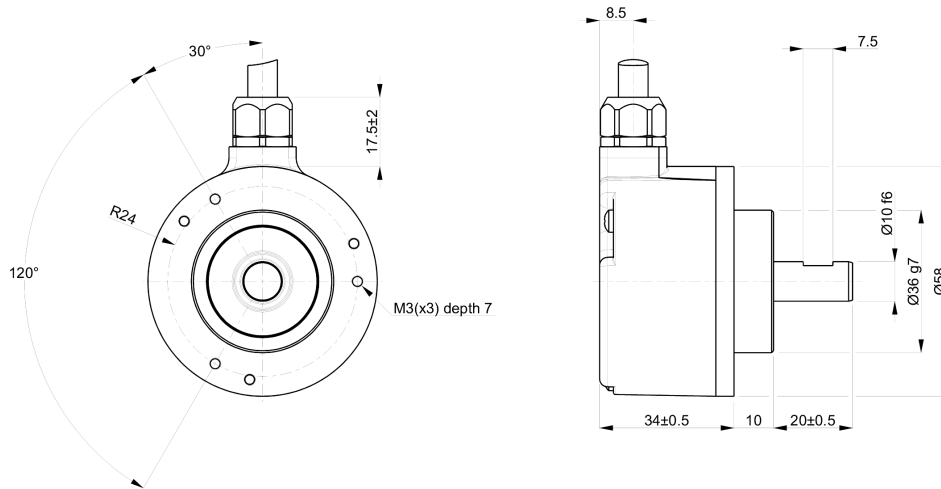
### Encoder configuration

|                      |                                       |
|----------------------|---------------------------------------|
| Type                 | RSI                                   |
| Model                | 503 Standard                          |
| Shaft type           | Ø10 mm with partial flat              |
| Flange type          | Clamping flange (61-type)             |
| Resolution           | 5000 ppr                              |
| Power supply         | 5 Vdc                                 |
| Output signal        | TTL                                   |
| 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                          | No                 |
| Short circuit protected incremental outputs | Yes                |
| Current consumption (No load)               | 45 mA (Max. 75 mA) |
| Incremental output load (max)               | ± 20 mA            |
| Output frequency max                        | 300 kHz            |
| Cable length max                            | 50 m at 50 kHz     |
| Channel separation                          | 90 °el ± 25 °el    |
| Dividing error                              | ± 50 °el           |

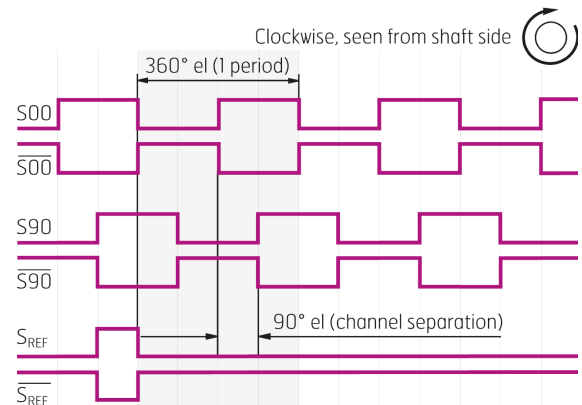
## Dimensions



## 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 | 390336-01 |
|-------------|-----------|