

### Compact Type 3610



- Low price, compact, high performance
- Chromated housing resistant to cooling lubricants and other environmental influences
- Universal application in mechanical engineering, vehicles, conveyors and elevators
- Wide temperature range (-30 ... +90 °C)
- Temperature and ageing compensation
- Low current consumption despite high scanning rate
- IP 65 from housing side
- Sturdy cable entry thanks to multiple clamping
- Highly flexible cable (withstands constant flexing at 0 °C ... 70 °C)
- Short circuit proof
- Broad input voltage range (5 ... 18 V or 8 ... 30 V)

#### Mechanical characteristics:

|                                              |                                                                      |
|----------------------------------------------|----------------------------------------------------------------------|
| Speed:                                       | max. 12000 min <sup>-1</sup>                                         |
| Rotors moment of inertia:                    | approx. 0.2 x 10 <sup>-6</sup> kgm <sup>2</sup>                      |
| Starting torque:                             | < 0.05 Nm                                                            |
| Radial load capacity of the shaft:           | 40 N                                                                 |
| Axial load capacity of the shaft:            | 20 N                                                                 |
| Weight:                                      | approx. 0.08 kg                                                      |
| Protection acc. to EN 60 529:                | IP 65, housing side                                                  |
| Working temperature:                         | -20° C ... +85 °C <sup>2)</sup>                                      |
| Operating temperature:                       | -30 °C ... +90 °C <sup>2)</sup>                                      |
| Materials:                                   | Shaft: stainless steel;<br>Housing: chromated Aluminum<br>Cable: PVC |
| Shock resistance acc. to DIN-IEC 68-2-27:    | 1000 m/s <sup>2</sup> , 6 ms                                         |
| Vibration resistance acc. to DIN-IEC 68-2-6: | 100 m/s <sup>2</sup> , 55 ... 2000 Hz                                |

<sup>2)</sup> Non-condensing

#### Pulse rates available at short notice:

25, 100, 200, 360, 500, 600, 1000, 1024, 1500, 2000, 2048, 2500

Other pulse rates available on request

#### Electrical characteristics:

| Output circuit:                                   | Push-pull (7272) <sup>1)</sup> | Push-pull (7272) <sup>1)</sup> |
|---------------------------------------------------|--------------------------------|--------------------------------|
| Supply voltage:                                   | 5 ... 18 V DC                  | 8 ... 30 V DC                  |
| Power consumption (no load) with inverted signal: | < 40 mA                        | < 40 mA                        |
| Permissible load/channel:                         | max. ±50 mA                    | max. ±50 mA                    |
| Pulse frequency:                                  | max. 200 kHz                   | max. 200 kHz                   |
| Signal level high:                                | min. U <sub>B</sub> = 2.5 V    | min. U <sub>B</sub> = 3 V      |
| Signal level low:                                 | max. 0.5 V                     | max. 0.5 V                     |
| Rise time tr                                      | max. 1 µs                      | max. 1 µs                      |
| Fall time tf                                      | max. 1 µs                      | max. 1 µs                      |
| Short circuit proof outputs <sup>1)</sup> :       | yes <sup>2)</sup>              | yes <sup>2)</sup>              |
| Reverse connection protection at U <sub>B</sub> : | yes                            | yes                            |

Conforms to CE requirements acc. to EN 6100-6-1, EN 6100-6-4, EN 61000-6-3

<sup>1)</sup> Max. recommended cable length 30 m

<sup>2)</sup> If supply voltage correctly applied

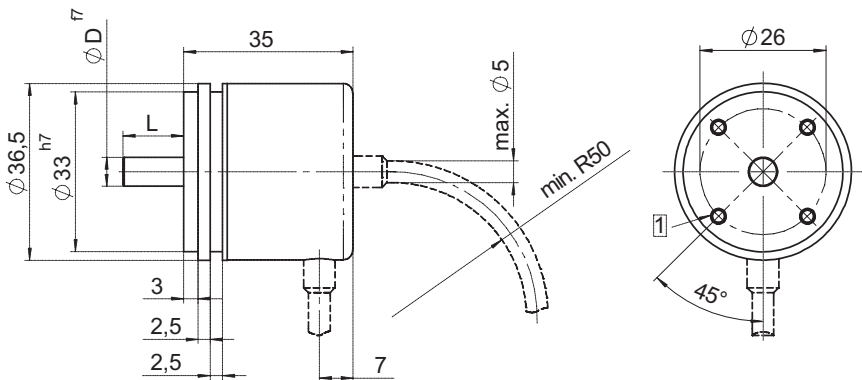
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Terminal assignment:

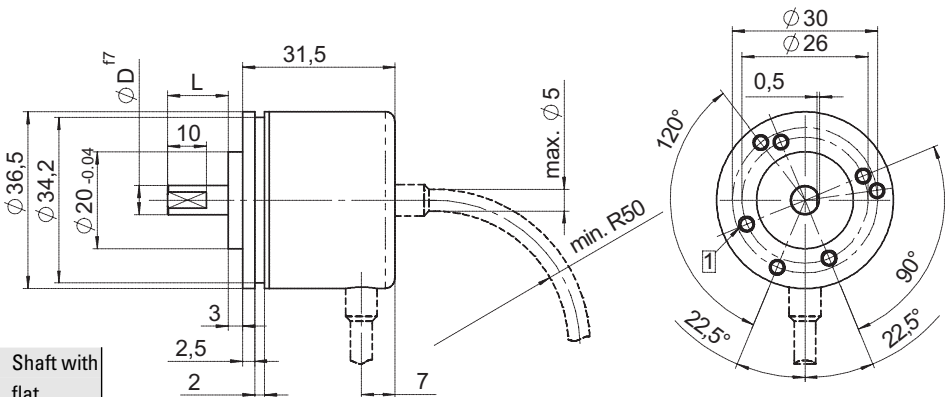
|         |     |                 |    |           |    |           |    |           |        |
|---------|-----|-----------------|----|-----------|----|-----------|----|-----------|--------|
| Signal: | 0 V | +U <sub>B</sub> | A  | $\bar{A}$ | B  | $\bar{B}$ | 0  | $\bar{0}$ | Shield |
| Colour: | WH  | BN              | GN | YE        | GY | PK        | BU | RD        |        |

Insulate unused outputs before initial startup.

Dimension:  
Synchronous  
bracket



Clamping bracket



| Order-Code<br>Shaft | D      | L    | Shaft with<br>flat |
|---------------------|--------|------|--------------------|
| 1                   | ø 4    | 10   | no                 |
| 2                   | ø 5    | 10   | no                 |
| 3                   | ø 6    | 12.5 | yes                |
| 5                   | ø 1/4" | 12.5 | yes                |

1 M3, 5 deep

Order code

8.3610.XXXX.XXXX

