## Profile
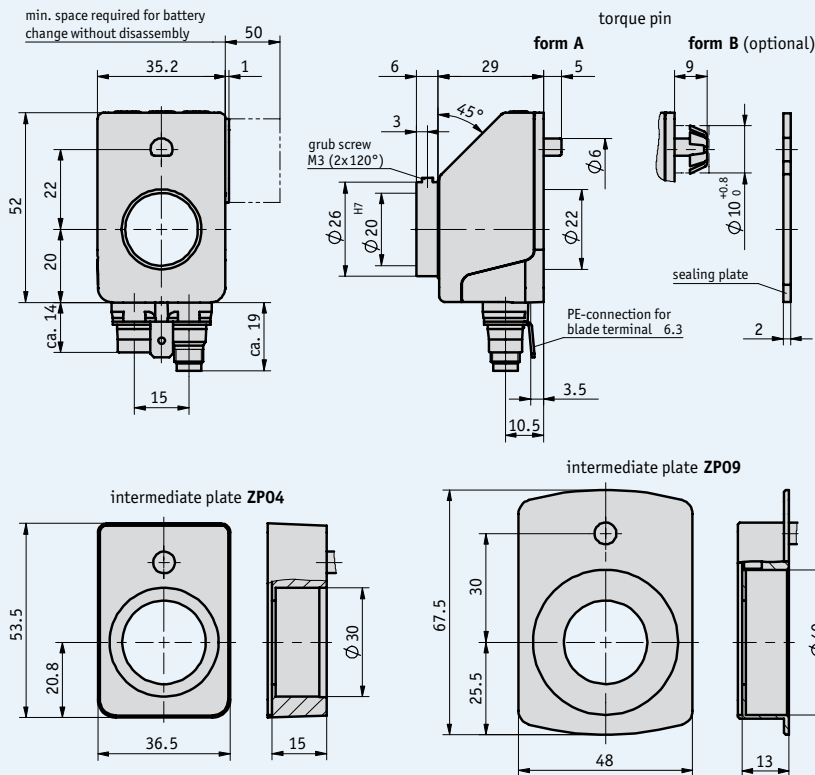
- Electronic position indicator with bus interface
- Compact design
- Hollow shaft, max. Ø 20 mm
- Easily readable, two-line LCD for target and actual values
- Reset, incremental measurement, offset via keyboard
- Integrated RS485 interface, CAN bus as an option
- Robust sensor technology unit thanks to magnetic scanning
- User guidance via bicolor LED

**1.2**



## Mechanical data

| Feature | Technical data | Additional information |
|---|---|---|
| Max. speed | ≤500 rpm | |
| Operating temperature range | 0 ... 60 °C | |
| Storage temperature range | –20 ... +80 °C | |
| Protection category | IP53 | in the mounted state, standard version |
| Housing | plastic reinforced | metal connector thread |
| Driving shaft | stainless steel | |
| Housing color | black, RAL 9005 | |

## Electrical data

| Feature | Technical data | Additional information |
|---|---|---|
| Operating voltage | 24 V DC ±20 % | |
| Current consumption | approx. 30 mA | |
| Battery life | approx. 5 years | |
| Type of connection | 2x M8 connector | 4-pin, 1x bush, 1x connector, additionally screen connection via flat-cable plug 6.3 mm |
| Bus connection | CAN bus or RS485 | no galvanic isolation |
| Display | LCD display | 7-segment + decimal points; 2 lines of 5 digits each, special characters |
| Special characters | left arrow, right arrow, increm. measurem. | |
| | replace battery | |
| Display size | approx. 7 mm digit height | |
| Signal indicator | bicolor LED (red/green) | |
| Keys | incremental measurement function, | |
| | parameterization , reset | |
| Scanning | magnetic | |
| Resolution | 720 increments/revolution | |
| Display resolution | freely parameterizable  between | |
| | 1 and 65535 increments/revolution | |
| Coded number of revolutions | max. 7281 | |

## Pin assignment

### ▪ Interfaces

| RS485 | CAN bus | PIN |
|---|---|---|
| TxRx-/DÜB | CANL | 1 |
| TxRx+/DÜA | CANH | 2 |
| +24 V DC | +24 V DC | 3 |
| GND | GND | 4 |

## Order

### ▪ Order table

| Feature | Order text | | Specification | Additional information |
|---|---|---|---|---|
| Interface/protocol | S3/00 | A | RS485/standard | |
| | CAN | | CANopen | |
| Hollow shaft/diameter (mm) | 20 | B | Ø 20 mm | |
| | ... | | RH10, RH12, RH14, RH16 | reducing bushes |
| | | | others on request | |
| Intermediate plate | OZP | C | without | |
| | ZP04 | | intermediate plate | |
| | ZP09 | | adapter plate | |

### ▪ Order code

AP04 – [ A ] – [ B ] – **A** – [ C ] – **S**

*Scope of delivery:* AP04, User information

➤ *Accessories:*
| | |
|---|---|
| *Reducing bushes* | *Page 108* |
| *Mating connectors* | *Page 104* |
| *Cable extension* | *Page 105* |
| *Battery unit* | *Page 106* |

*Additional information:*
| | |
|---|---|
| *General information and areas of application* | *Page 30 cont.* |

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