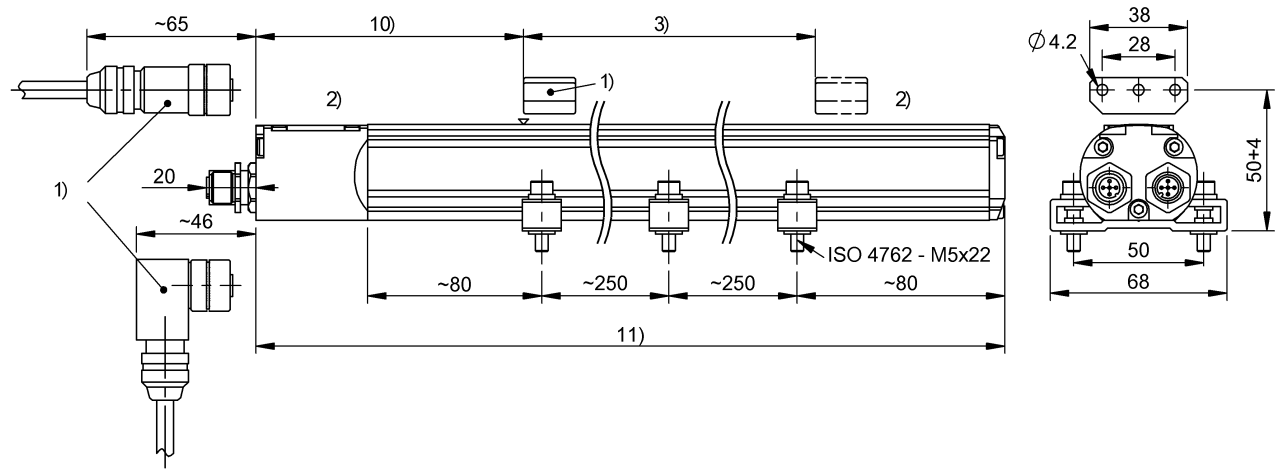




1) not included in scope of delivery, 2) Non-usable area, 3) Nominal length = Measuring length, 10) Null point, 11) Installation length



#### Basic features

|                                   |                            |
|-----------------------------------|----------------------------|
| Approval/Conformity               | CE<br>cULus<br>EAC<br>WEEE |
| Magnets, number (factory setting) | 2                          |
| Magnets, number max.              | 4                          |

#### Electrical connection

|                             |                         |
|-----------------------------|-------------------------|
| Connection                  | Connector, M12x1, 5-pin |
| Connection 1                | M12x1, 5-pin            |
| Connection 2                | M12x1                   |
| Connection version          | axial                   |
| Polarity reversal protected | Ub up to 28 V           |

#### Electrical data

|                                      |                    |
|--------------------------------------|--------------------|
| Current consumption max. at 24 V DC  | 100 mA             |
| Galvanic isolation                   | no                 |
| Inrush current                       | ≤ 3 A/0.5 ms       |
| Operating voltage Ub                 | 20...28 VDC        |
| Output signal adjustable             | with software tool |
| Overvoltage protection               | Ub up to 28 V      |
| Voltage-proof up to (GND to housing) | 500 V DC           |

#### Environmental conditions

|                                     |                                           |
|-------------------------------------|-------------------------------------------|
| Ambient temperature                 | -40...85 °C                               |
| EN 55016-2-3, Radiation             | Industrial areas                          |
| EN 60068-2-27, Continuous shock     | 100 g, 2 ms                               |
| EN 60068-2-27, Shock                | 100 g, 6 ms                               |
| EN 60068-2-6, Vibration             | 12 g, 10...2000 Hz                        |
| EN 61000-4-2, ESD                   | Severity Level 3                          |
| EN 61000-4-3, RFI                   | Severity Level 3                          |
| EN 61000-4-4, Burst                 | Severity Level 3                          |
| EN 61000-4-5, Surge                 | Severity Level 2                          |
| EN 61000-4-6, High-frequency fields | Severity Level 3                          |
| EN 61000-4-8 Magnetic fields        | Severity Level 4                          |
| IP rating                           | IP67, with connector                      |
| Relative humidity                   | ≤ 90 %, non-condensing                    |
| Storage temperature                 | -40...100 °C                              |
| Temperature coefficient typ.        | ≤ 35 ppm/K at 50% of nominal stroke 500mm |

#### Functional safety

|              |      |
|--------------|------|
| MTTF (40 °C) | 86 a |
|--------------|------|

#### Interface

|           |               |
|-----------|---------------|
| Baud rate | 500 kBaud     |
| Interface | CANopen DS301 |

Material

|                                      |                     |
|--------------------------------------|---------------------|
| Housing material                     | Aluminium, Anodized |
| Housing material, surface protection | Anodized            |

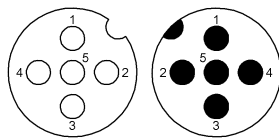
Mechanical data

|               |                 |
|---------------|-----------------|
| Mounting part | Mounting clamps |
| Null point    | 106.0 mm        |

Range/Distance

|                                 |                 |
|---------------------------------|-----------------|
| Non-linearity max.              | ±30 µm          |
| Repeat accuracy                 | ± 1 LSB         |
| Repeatability                   | ±1 LSB          |
| Resolution                      | ≤ 5 µm          |
| Resolution min., traverse speed | 0.1 mm/s        |
| Sampling rate, length-dependent | 1 kHz, standard |

Connector Drawings



Wiring Diagrams (Schematic)

| Pin |          |
|-----|----------|
| 1   | CAN_GND  |
| 2   | +24 V DC |
| 3   | GND      |
| 4   | CAN_HIGH |
| 5   | CAN_LOW  |