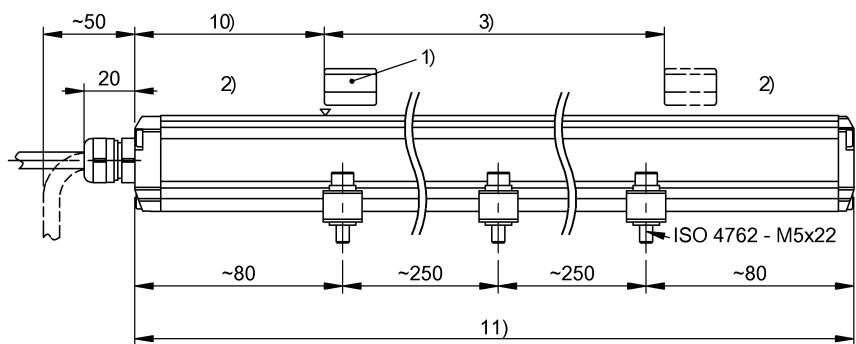


1) not included in scope of delivery, 2) Non-usable area, 3) Nominal length = Measuring length, 10) Null point, 11) Installation length



Basic features

|                                   |                            |
|-----------------------------------|----------------------------|
| Approval/Conformity               | CE<br>cULus<br>EAC<br>WEEE |
| Magnets, number (factory setting) | 1                          |
| Magnets, number max.              | 1                          |

Electrical connection

|                                     |                             |
|-------------------------------------|-----------------------------|
| Bending radius min., fixed cable    | 5 x D                       |
| Bending radius min., flexible cable | 15 x D                      |
| Cable diameter D                    | 6...6.7 mm                  |
| Cable length L                      | 10 m, drag chain compatible |
| Connection                          | Cable, 10.00 m, PUR         |
| Connection version                  | axial                       |
| Polarity reversal protected         | Ub up to 28 V               |

Electrical data

|                                      |               |
|--------------------------------------|---------------|
| Current consumption max. at 24 V DC  | 150 mA        |
| Error signal Ua falling              | ≤ -1 V        |
| Error signal Ua rising               | ≥ 11 V        |
| Galvanic isolation                   | yes           |
| Inrush current                       | ≤ 3 A/0.5 ms  |
| Operating voltage Ub                 | 20...28 VDC   |
| Output current max.                  | 5 mA          |
| Output signal adjustable             | no            |
| Overvoltage protection               | Ub up to 28 V |
| Ripple Ua max.                       | 5 mV          |
| Voltage-proof up to (GND to housing) | 500 V DC      |

Environmental conditions

|                                     |                                           |
|-------------------------------------|-------------------------------------------|
| Ambient temperature                 | -40...85 °C                               |
| Cable temperature, fixed routing    | -40...90 °C                               |
| Cable temperature, flexible routing | -5...90 °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                                      |
| 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) | 93 a |
|--------------|------|

Interface

|               |                                                   |
|---------------|---------------------------------------------------|
| Analog output | Analog, voltage 0...10 V Analog, voltage 10...0 V |
|---------------|---------------------------------------------------|

Material

|                                      |                                    |
|--------------------------------------|------------------------------------|
| Cable flame-resistant                | IEC 60332-1                        |
| Cable jacket, material               | PUR                                |
| Cover material                       | Aluminium, Die-cast, nickel plated |
| Housing material                     | Aluminium, Anodized                |
| Housing material, surface protection | Anodized                           |

Mechanical data

|                |                 |
|----------------|-----------------|
| Mounting part  | Mounting clamps |
| Null point     | 73.0 mm         |
| Overall Length | 346 mm          |

Range/Distance

|                                 |                 |
|---------------------------------|-----------------|
| Measuring length                | 200 mm          |
| Non-linearity max.              | ±100 µm         |
| Repeat accuracy                 | ≤ 0.1 mV        |
| Repeatability                   | ≤4 µm           |
| Resolution                      | ≤ 0.1 mV        |
| Sampling rate, length-dependent | 1 kHz, standard |

Wiring Diagrams (Schematic)

|        |            |
|--------|------------|
| colour |            |
| YE     | NC         |
| GY     | GND output |
| PK     | 10...0 V   |
| GN     | 0...10 V   |
| BU     | GND        |
| BN     | +24 V DC   |
| WH     | NC         |