

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

|                             |                            |
|-----------------------------|----------------------------|
| Connection                  | Connector, M16x0.75, 8-pin |
| Connection version          | axial                      |
| Polarity reversal protected | Ub up to 28 V              |

### Electrical data

|                                      |               |
|--------------------------------------|---------------|
| Current consumption max. at 24 V DC  | 150 mA        |
| Error signal Ia rising               | ≥ 20.4 mA     |
| Error signal Ia falling              | ≤ 0 V         |
| Error signal Ia rising               | ≥ 10.2 V      |
| Galvanic isolation                   | yes           |
| Inrush current                       | ≤ 3 A/0.5 ms  |
| Operating voltage Ub                 | 20...28 VDC   |
| Output signal adjustable             | no            |
| 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) | 77 a |
|--------------|------|

### Interface

|               |                           |
|---------------|---------------------------|
| Analog output | Analog, current 4...20 mA |
|---------------|---------------------------|

### Material

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

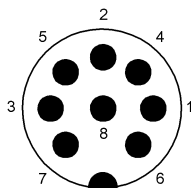
Mechanical data

|               |                 |
|---------------|-----------------|
| Mounting part | Mounting clamps |
| Null point    | 73.0 mm         |

Range/Distance

|                                 |                 |
|---------------------------------|-----------------|
| Non-linearity max.              | ±0.02 % FS      |
| Repeat accuracy                 | ≤ ± 0.2 µA      |
| Repeatability                   | ≤4 µm           |
| Resolution                      | ≤ 0.2 µA        |
| Sampling rate, length-dependent | 1 kHz, standard |

Connector Drawings



Wiring Diagrams (Schematic)

| Pin |            |
|-----|------------|
| 1   | 4...20 mA  |
| 2   | GND output |
| 3   | NC         |
| 4   | NC         |
| 5   | NC         |
| 6   | GND        |
| 7   | +24 V DC   |
| 8   | NC         |