

1) not included in scope of delivery, 2) Non-usable area, 3) Nominal length = Measuring length, 4) Mounting surface, 5) Internal threads M4x4/6 deep, 10) Null point, 11) Installation length



Basic features

| | |
|-----------------------------------|--------------------------------------|
| Approval/Conformity | CE UKCA cULus DNVGL 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 36 V |
| Short-circuit protection | to GND and to 36 V DC |

Electrical data

| | |
|--------------------------------------|--|
| Current consumption max. at 24 V DC | 150 mA |
| Error signal Ia rising | 3.6 mA |
| Galvanic isolation | no |
| Inrush current | ≤ 500 mA/10 ms |
| Operating voltage Ub | 20...28 VDC |
| Output signal adjustable | with calibration aid using programming inputs |
| Overvoltage protection | Ub up to 36 V |
| Switch-on delay max. | 600 ms |
| Voltage-proof up to (GND to housing) | 500 V AC |

Environmental conditions

| | |
|-------------------------------------|--|
| Ambient temperature | -40...85 °C |
| EN 55016-2-3, Radiation | For industrial and residential use |
| EN 60068-2-27, Continuous shock | 150 g, 2 ms |
| EN 60068-2-27, Shock | 150 g, 6 ms |
| EN 60068-2-6, Vibration | 20 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. | ≤ 30 ppm/K at 50% of nominal stroke 500mm |

Functional safety

| | |
|--------------|------|
| MTTF (40 °C) | 58 a |
|--------------|------|

Interface

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

Material

| | |
|--------------------------------------|------------------------------------|
| Cover material | Aluminium, Die-cast, nickel plated |
| Housing material | Aluminium, Anodized |
| Housing material, surface protection | Anodized |
| Material flange | 1.3960 stainless steel |
| O-ring material | FKM |
| Plug material | 1.4571 stainless steel |
| Protection tube material | 1.4571 stainless steel |

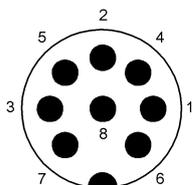
Mechanical data

| | |
|--|-------------------------|
| Installation length from contact surface | 540 mm |
| Mounting part | Threaded flange M18x1.5 |
| Null point | 30.0 mm |
| Pressure rating max. | 600 bar |
| Protection tube diameter | 10.2 mm |
| Tightening torque max. | 100 Nm |

Range/Distance

| | |
|-------------------------|---------|
| Measuring length | 450 mm |
| Non-linearity max. | ±50 µm |
| Repeat accuracy | ± 5 µm |
| Sampling frequency max. | 2000 Hz |

Connector Drawings



Wiring Diagrams (Schematic)

| Pin | |
|-----|-----------|
| 1 | 4...20 mA |
| 2 | 0V |
| 3 | NC |
| 4 | La |
| 5 | NC |
| 6 | GND |
| 7 | +24 V DC |
| 8 | Lb |