

Basic features

| | |
|---------------------|---------------------|
| Approval/Conformity | CE cULus WEEE |
| Basic standard | EN 61326-1 |
| Measuring principle | MEMS |

Electrical connection

| | |
|-----------------------------------|-------|
| Connection | M12x1 |
| Polarity reversal protected | yes |
| Protection against device mix-ups | no |
| Short-circuit protection | yes |

Electrical data

| | |
|-------------------------------------|-------------|
| Current draw max. | 15 mA |
| Load resistance max., analog output | 900 Ohm |
| Operating voltage U_b | 10...30 VDC |
| Protection class | III |
| Rated operating voltage U_e DC | 24 V |
| Ready delay t_v max. | 1 s |

Environmental conditions

| | |
|-------------------------|----------------------|
| Ambient temperature | -25...80 °C |
| Contamination scale | 3 |
| EN 60068-2-27, Shock | yes |
| EN 60068-2-6, Vibration | yes |
| Protection degree | IP67 |
| Relative humidity | 95 %, non-condensing |
| Storage temperature | -40...85 °C |

Functional safety

| | |
|--------------|-------|
| MTTF (40 °C) | 263 a |
|--------------|-------|

Material

| | |
|------------------|---------|
| Housing material | Plastic |
|------------------|---------|

Mechanical data

| | |
|--------------------|-----------------|
| Dimension | 40 x 25 x 50 mm |
| Measuring axes | 1 |
| Mounting | Screws |
| Rotation direction | Clockwise |
| Weight | 45.00 g |

Output/Interface

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

Range/Distance

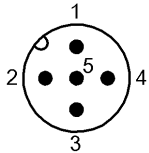
| | |
|------------------------|------------|
| Accuracy | ±1.0° |
| Resolution | ≤ 0.09° |
| Sampling rate | 20 ms |
| Temperature drift max. | ±0.8°/10 K |

Remarks

Can be centered over 360° in the vertical position
For more information about MTTF and B10d see MTTF / B10d Certificate

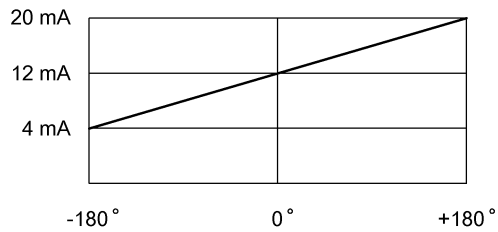
Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Connector Drawings



- PIN 1: Vcc
- PIN 2: n.c.
- PIN 3: GND
- PIN 4: 4..20 mA
- PIN 5: Centering

Technical Drawings



Output signal measuring range

Help Views

