

### Basic features

|                     |                     |
|---------------------|---------------------|
| Approval/Conformity | CE<br>cULus<br>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.                   | 25 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     | -40...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) | 121 a |
|--------------|-------|

### Material

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

### Mechanical data

|                    |                 |
|--------------------|-----------------|
| Dimension          | 50 x 27 x 78 mm |
| Measuring axes     | 2               |
| Mounting           | Screws          |
| Rotation direction | Clockwise       |
| Weight             | 110.00 g        |

### Output/Interface

|               |                              |
|---------------|------------------------------|
| Analog output | 2x Analog, current 4...20 mA |
|---------------|------------------------------|

### Range/Distance

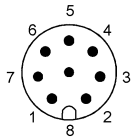
|                        |            |
|------------------------|------------|
| Accuracy               | ±0.2°      |
| Resolution             | ≤ 0.01 °   |
| Sampling rate          | 20 ms      |
| Temperature drift max. | ±0.1°/10 K |

### Remarks

Centering in a range of  $\pm 5^\circ$  from horizontal is possible  
For more information about MTTF and B10d see MTTF / B10d Certificate

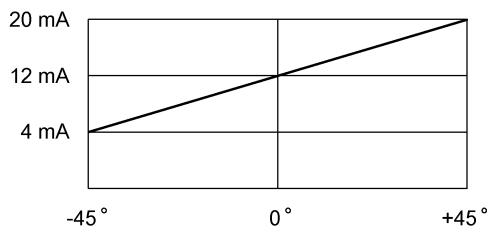
Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

### Connector Drawings



- PIN 1: Y 4..20 mA
- PIN 2: Vcc
- PIN 3: Int. use
- PIN 4: Int. use
- PIN 5: GND
- PIN 6: Centering
- PIN 7: 4..20 mA
- PIN 8: Shield

### Technical Drawings



Output signal measuring range

## Help Views

