### Basic features

<table>
<thead>
<tr>
<th>Approval/Conformity</th>
<th>CE</th>
<th>cULus</th>
<th>WEEE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic standard</td>
<td>EN 61326-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Measuring principle</td>
<td>MEMS</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 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 min., analog output**: 20 kOhm
- **Operating voltage Ub**: 12...30 VDC
- **Protection class**: III
- **Rated operating voltage Ue DC**: 24 V
- **Ready delay tv max.**: 1 s

### Environmental conditions

- **Ambient temperature**: -25...80 °C
- **Contamination scale**: 3
- **Shock**: yes
- **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, voltage 0...10 V

### Range/Distance

- **Accuracy**: ±0.8°
- **Resolution**: ≤ 0.09 °
- **Sampling rate**: 20 ms
- **Temperature drift max.**: ±0.8°/10 K
Inclination Sensors
BSI Q41K0-XA-MXS045-S92
Order Code: BSI000T

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: 0..10 V
PIN 5: Centering

Technical Drawings

Output signal measuring range
Help Views

0°

-45°

+45°