More Precision

capaNCDT // Capacitive displacement sensors and systems
Sensor type: CSH02-CAm1,4, CSH05-CAm1,4, CSH1-CAm1,4, CSH1,2-CAm1,4, CSH2-CAm1,4

<table>
<thead>
<tr>
<th>Article No.</th>
<th>6610086</th>
<th>6610087</th>
<th>6610088</th>
<th>6610089</th>
<th>6610107</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring range</td>
<td>reduced 0.1 mm</td>
<td>0.25 mm</td>
<td>0.5 mm</td>
<td>0.6 mm</td>
<td>1 mm</td>
</tr>
<tr>
<td>nominal 0.2 mm</td>
<td>0.5 mm</td>
<td>1 mm</td>
<td>1.2 mm</td>
<td>2 mm</td>
<td></td>
</tr>
<tr>
<td>extended 0.4 mm</td>
<td>1 mm</td>
<td>2 mm</td>
<td>2.4 mm</td>
<td>4 mm</td>
<td></td>
</tr>
</tbody>
</table>

- **Linearity**:
  - ≤ ±0.054 µm
  - ≤ ±0.13 µm
  - ≤ ±0.13 µm
  - ≤ ±0.84 µm
  - ≤ ±0.5 µm

- **Resolution**:
  - static 2 Hz 0.15 nm
  - 0.38 nm
  - 0.75 nm
  - 0.9 nm
  - 1.5 nm

- **Temperature stability**:
  - Zero 5
  - -19 nm/K
  - -19 nm/K
  - -19 nm/K
  - -19 nm/K

- **Temperature range**:
  - Operation -50 … +200 °C
  - Storage -50 … +200 °C

- **Humidity**:
  - 0 % … 95 % r.H.

- **Dimensions**:
  - Ø8 × 14 mm
  - Ø2.8 mm

- **Guard ring width**:
  - 1.9 mm

- **Minimum target diameter**:
  - Ø7 mm

- **Weight (incl. cable and connector)**:
  - 30 g

- **Material**:
  - Housing 1.4104 (magn.)

- **Connection**:
  - Cable integrated Ø2.1 mm × 1.4 m axial

- **Mounting**
  - clamping

**Important!**

All Micro-Epsilon sensors are short circuit proof.

Unlike other systems the pre-amplifier will not get damaged, if the front face of the sensor gets shorted by touching the conductive target.

**Mounting cylindrical sensors**

All sensors can be installed as both freestanding and flush units.

The sensors can be clamped or fastened using a collet.
Sensors and Systems from Micro-Epsilon

- Sensors and systems for displacement, distance and position
- Sensors and measurement devices for non-contact temperature measurement
- Measuring and inspection systems for metal strips, plastics and rubber
- Optical micrometers and fiber optics, measuring and test amplifiers
- Color recognition sensors, LED analyzers and inline color spectrometers
- 3D measurement technology for dimensional testing and surface inspection