More Precision

**eddyNCDT** // Inductive sensors based on eddy currents
The eddyNCDT 3300 eddy current system is a powerful displacement measuring system which offers numerous benefits in manufacturing automation, machine monitoring and quality control.

**Multifunctional controller**
The eddyNCDT 3300 controller is equipped with high performance processors for reliable signal processing and further processing. The three-point linearization feature enables almost fully automatic field linearization, which provides high accuracy for any metallic target and installation environment. The operation is supported by a dialog-aided graphical display.

**Highest frequency response**
Monitoring highly dynamic processes is possible with the eddyNCDT 3300 which offers a frequency response of 100 kHz. This enables to solve measurement tasks where high measurement speeds and high accuracy are required.
<table>
<thead>
<tr>
<th>Model</th>
<th>DT3300</th>
<th>DT3301</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution ¹</td>
<td>static (25 Hz)</td>
<td>0.005 % FSO (≤ 0.01 % FSO with ES04, ES05 and EU05)</td>
</tr>
<tr>
<td></td>
<td>dynamic (25 / 100 kHz)</td>
<td>0.2 % FSO</td>
</tr>
<tr>
<td>Frequency response (-3dB)</td>
<td>selectable 25 kHz, 2.5 kHz, 25 Hz, 100 kHz for measuring ranges ≤ 1 mm</td>
<td></td>
</tr>
<tr>
<td>Linearity</td>
<td>&lt; ± 0.2 % FSO</td>
<td></td>
</tr>
<tr>
<td>Temperature compensation ²</td>
<td>+10 ... 100 °C (option TCS: -40 ... +180 °C)</td>
<td></td>
</tr>
<tr>
<td>Synchronization</td>
<td>yes</td>
<td></td>
</tr>
<tr>
<td>Target material ³</td>
<td>Steel, aluminum</td>
<td></td>
</tr>
<tr>
<td>Supply voltage</td>
<td>± 12 VDC and 5.2 VDC ⁴</td>
<td>11 ... 32 VDC</td>
</tr>
<tr>
<td>Max. current consumption</td>
<td>approx. 420 mA</td>
<td>700 mA</td>
</tr>
<tr>
<td>Analog output</td>
<td>selectable 0 ... 5 V; 0 ... 10 V; ± 2.5 V; ± 5 V; ± 10 V (or inverted); / 4 ... 20 mA (short circuit proof)</td>
<td></td>
</tr>
<tr>
<td>Connection</td>
<td>Sensor: pluggable cable via 5-pole socket</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Supply/signal: 8-pole M16 x 0.75 connector (cable see accessories)</td>
<td></td>
</tr>
<tr>
<td>Temperature range</td>
<td>Storage: +25 ... +70 °C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Operation: +5 ... +50 °C</td>
<td></td>
</tr>
<tr>
<td>Protection class (DIN-EN 60529)</td>
<td>IP64 (plugged)</td>
<td></td>
</tr>
<tr>
<td>Control and display elements</td>
<td>limit value monitoring, auto-zero, peak-to-peak, minimum, maximum, average, storage of 3 characteristics</td>
<td></td>
</tr>
</tbody>
</table>

FSO = Full Scale Output

¹ Resolution data are based on noise peak-to-peak values

² Temperature stability may differ with TCS option

³ Steel: St37 steel DIN1.0037 / aluminum: AlCuMgPb3.1645

⁴ Additionally 24 VDC for external reset and limit switch

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### Pin assignment ANALOG - I/O

<table>
<thead>
<tr>
<th>Pin</th>
<th>Assignment</th>
<th>Color (cable: SCA3/5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>n.c.</td>
<td>---</td>
</tr>
<tr>
<td>2</td>
<td>n.c.</td>
<td>---</td>
</tr>
<tr>
<td>3</td>
<td>Analog output U_out</td>
<td>Brown</td>
</tr>
<tr>
<td>4</td>
<td>n.c.</td>
<td>---</td>
</tr>
<tr>
<td>5</td>
<td>Temperature output ¹ U_temp</td>
<td>Green</td>
</tr>
<tr>
<td>6</td>
<td>n.c.</td>
<td>Gray</td>
</tr>
<tr>
<td>7</td>
<td>Agnd</td>
<td>White</td>
</tr>
<tr>
<td>8</td>
<td>Analog output I_out</td>
<td>Yellow</td>
</tr>
</tbody>
</table>

¹ Signal available only as option

---

### Pin assignment IN/OUT/24V IN

<table>
<thead>
<tr>
<th>Pin</th>
<th>Assignment</th>
<th>Color (cable: SCD3/8)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Zeroing In</td>
<td>Brown</td>
</tr>
<tr>
<td>2</td>
<td>Limit value A Out</td>
<td>Yellow</td>
</tr>
<tr>
<td>3</td>
<td>n.c.</td>
<td>Blue</td>
</tr>
<tr>
<td>4</td>
<td>Reset limit value In</td>
<td>Green</td>
</tr>
<tr>
<td>5</td>
<td>n.c.</td>
<td>Pink</td>
</tr>
<tr>
<td>6</td>
<td>24 VDC ground</td>
<td>White</td>
</tr>
<tr>
<td>7</td>
<td>+24 VDC in</td>
<td>Red</td>
</tr>
<tr>
<td>8</td>
<td>Limit value B Out</td>
<td>Gray</td>
</tr>
</tbody>
</table>

---

Dimensions in mm, not to scale.
## eddyNCDT 3300

### Measurement direction

<table>
<thead>
<tr>
<th>Model</th>
<th>ES04</th>
<th>EU05</th>
<th>ES08</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring range</td>
<td>0.4 mm</td>
<td>0.4 mm</td>
<td>0.8 mm</td>
</tr>
<tr>
<td>Start of measuring range</td>
<td>0.04 mm</td>
<td>0.05 mm</td>
<td>0.08 mm</td>
</tr>
<tr>
<td>Resolution $^{1,2}$</td>
<td>0.04 µm</td>
<td>0.05 µm</td>
<td>0.04 µm</td>
</tr>
<tr>
<td>Linearity $^1$</td>
<td>$&lt; ± 0.8$ µm</td>
<td>$&lt; ± 1$ µm</td>
<td>$&lt; ± 1.6$ µm</td>
</tr>
<tr>
<td>Temperature stability $^{1,3}$</td>
<td>$&lt; 0.06$ µm / K</td>
<td>$&lt; 0.075$ µm / K</td>
<td>$&lt; 0.12$ µm / K</td>
</tr>
<tr>
<td>Temperature compensation $^4$</td>
<td>0 … +90 °C</td>
<td>0 … +90 °C</td>
<td>0 … +90 °C</td>
</tr>
<tr>
<td>Min. target size (flat)</td>
<td>Ø 6 mm</td>
<td>Ø 9 mm</td>
<td>Ø 7.5 mm</td>
</tr>
<tr>
<td>Sensor type shielded</td>
<td>unshielded</td>
<td>shielded</td>
<td></td>
</tr>
<tr>
<td>Connection</td>
<td>integrated cable, axial, length approx. 0.25 m $^5$</td>
<td>integrated cable, axial, length approx. 0.25 m $^5$</td>
<td>integrated cable, axial, length approx. 0.25 m $^5$</td>
</tr>
<tr>
<td>Mounting</td>
<td>Cable gland (M4)</td>
<td>Cable gland (M3)</td>
<td>Cable gland (M5)</td>
</tr>
<tr>
<td>Temperature range</td>
<td>Storage +20 … +150 °C</td>
<td>+20 … +150 °C</td>
<td>+20 … +150 °C</td>
</tr>
<tr>
<td>Pressure resistance</td>
<td>100 bar (front)</td>
<td>-</td>
<td>20 bar (front)</td>
</tr>
<tr>
<td>Protection class (DIN-EN 60529)</td>
<td>IP64 (plugged)</td>
<td>IP64 (plugged)</td>
<td>IP64 (plugged)</td>
</tr>
<tr>
<td>Material</td>
<td>stainless steel</td>
<td>stainless steel and ceramics</td>
<td>stainless steel and plastic</td>
</tr>
</tbody>
</table>

$^1$ Valid for operation with DT3300 controller, referred to nominal measuring range

$^2$ Relates to mid of measuring range

$^3$ RMS value of the signal noise, static (25 Hz)

$^4$ Higher values possible with TCS option

$^5$ Length tolerance of cable: ± 10 %
### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>ES1</th>
<th>EU1</th>
<th>ES2</th>
<th>EU3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring range</td>
<td>1 mm</td>
<td>1 mm</td>
<td>2 mm</td>
<td>3 mm</td>
</tr>
<tr>
<td>Start of measuring range</td>
<td>0.1 mm</td>
<td>0.1 mm</td>
<td>0.2 mm</td>
<td>0.3 mm</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.05 µm</td>
<td>0.05 µm</td>
<td>0.1 µm</td>
<td>0.15 µm</td>
</tr>
<tr>
<td>Linearity</td>
<td>&lt; ± 2 µm</td>
<td>&lt; ± 2 µm</td>
<td>&lt; ± 4 µm</td>
<td>&lt; ± 6 µm</td>
</tr>
<tr>
<td>Temperature stability</td>
<td>&lt; 0.15 µm / K</td>
<td>&lt; 0.15 µm / K</td>
<td>&lt; 0.3 µm / K</td>
<td>&lt; 0.45 µm / K</td>
</tr>
<tr>
<td>Temperature compensation</td>
<td>0 … +90 °C</td>
<td>0 … +90 °C</td>
<td>0 … +90 °C</td>
<td>0 … +90 °C</td>
</tr>
<tr>
<td>Min. target size (flat)</td>
<td>Ø 12 mm</td>
<td>Ø 15 mm</td>
<td>Ø 18 mm</td>
<td>Ø 36 mm</td>
</tr>
<tr>
<td>Sensor type</td>
<td>shielded</td>
<td>unshielded</td>
<td>shielded</td>
<td>unshielded</td>
</tr>
<tr>
<td>Connection</td>
<td>integrated cable, axial, length approx. 0.25 m</td>
<td>integrated cable, axial, length approx. 0.25 m</td>
<td>Plug connection via triaxial socket</td>
<td>Plug connection via triaxial socket</td>
</tr>
<tr>
<td>Mounting</td>
<td>Cable gland (M8)</td>
<td>Cable gland (M5)</td>
<td>Cable gland (M12)</td>
<td>Cable gland (M12)</td>
</tr>
<tr>
<td>Temperature range</td>
<td>Storage +20 … +150 °C</td>
<td>+20 … +150 °C</td>
<td>+20 … +150 °C</td>
<td>+20 … +150 °C</td>
</tr>
<tr>
<td></td>
<td>Operation 0 … +150 °C</td>
<td>-40 … +150 °C</td>
<td>-20 … +150 °C</td>
<td>-20 … +150 °C</td>
</tr>
<tr>
<td>Pressure resistance</td>
<td>-</td>
<td>-</td>
<td>20 bar (front)</td>
<td>20 bar (front)</td>
</tr>
<tr>
<td>Protection class (DIN-EN 60529)</td>
<td>IP64 (plugged)</td>
<td>IP50 (plugged)</td>
<td>IP64 (plugged)</td>
<td>IP64 (plugged)</td>
</tr>
<tr>
<td>Material</td>
<td>stainless steel and plastic</td>
<td>stainless steel and plastic</td>
<td>stainless steel and plastic</td>
<td>stainless steel and plastic</td>
</tr>
</tbody>
</table>

1) Valid for operation with DT3300 controller, referred to nominal measuring range
2) Relates to mid of measuring range
3) RMS value of the signal noise, static (25 Hz)
4) Higher values possible with TCS option
5) Length tolerance of cable: ± 10 %
6) Dimensions in mm ±0.04 m

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**Diagram Notes:**
- Measurement direction
- Connector side
- Diagrams showing connections and mounting options.
## eddyNCDT 3300

### Sensors

<table>
<thead>
<tr>
<th>Model</th>
<th>ES4</th>
<th>EU6</th>
<th>EU8</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Measuring range</strong></td>
<td>4 mm</td>
<td>6 mm</td>
<td>8 mm</td>
</tr>
<tr>
<td><strong>Start of measuring range</strong></td>
<td>0.4 mm</td>
<td>0.6 mm</td>
<td>0.8 mm</td>
</tr>
<tr>
<td><strong>Resolution</strong>&lt;sup&gt;1,3&lt;/sup&gt;</td>
<td>0.2 µm</td>
<td>0.3 µm</td>
<td>0.4 µm</td>
</tr>
<tr>
<td><strong>Linearity</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
<td>&lt; ± 8 µm</td>
<td>&lt; ± 12 µm</td>
<td>&lt; ± 16 µm</td>
</tr>
<tr>
<td><strong>Temperature stability</strong>&lt;sup&gt;1,3,4&lt;/sup&gt;</td>
<td>&lt; 0.6 µm / K</td>
<td>&lt; 0.9 µm / K</td>
<td>&lt; 1.2 µm / K</td>
</tr>
<tr>
<td><strong>Temperature compensation</strong>&lt;sup&gt;4&lt;/sup&gt;</td>
<td>0 … +90 °C</td>
<td>0 … +90 °C</td>
<td>0 … +90 °C</td>
</tr>
<tr>
<td><strong>Min. target size (flat)</strong></td>
<td>Ø 27 mm</td>
<td>Ø 54 mm</td>
<td>Ø 72 mm</td>
</tr>
<tr>
<td><strong>Sensor type</strong></td>
<td>shielded</td>
<td>unshielded</td>
<td>unshielded</td>
</tr>
<tr>
<td><strong>Connection</strong></td>
<td>Plug connection via triaxial socket</td>
<td>Plug connection via triaxial socket</td>
<td>Plug connection via triaxial socket</td>
</tr>
<tr>
<td><strong>Mounting</strong></td>
<td>Cable gland (M18)</td>
<td>Cable gland (M18)</td>
<td>Cable gland (M24)</td>
</tr>
<tr>
<td><strong>Temperature range</strong></td>
<td>Storage: +20 ... +150 °C</td>
<td>Operation: 0 … +150 °C</td>
<td>-20 … +150 °C</td>
</tr>
<tr>
<td><strong>Pressure resistance</strong></td>
<td>20 bar (front)</td>
<td>20 bar (front)</td>
<td>20 bar (front)</td>
</tr>
<tr>
<td><strong>Protection class (DIN-EN 60529)</strong></td>
<td>IP50 (plugged)</td>
<td>IP64 (plugged)</td>
<td>IP64 (plugged)</td>
</tr>
<tr>
<td><strong>Material</strong></td>
<td>stainless steel and plastic</td>
<td>stainless steel and plastic</td>
<td>stainless steel and plastic</td>
</tr>
</tbody>
</table>

<sup>1</sup> Valid for operation with DT3300 controller, referred to nominal measuring range

<sup>2</sup> Relates to mid of measuring range

<sup>3</sup> RMS value of the signal noise, static (25 Hz)

<sup>4</sup> Higher values possible with TCS option
<table>
<thead>
<tr>
<th>Model</th>
<th>EU15</th>
<th>EU22</th>
<th>EU40</th>
<th>EU80</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring range</td>
<td>15 mm</td>
<td>22 mm</td>
<td>40 mm</td>
<td>80 mm</td>
</tr>
<tr>
<td>Start of measuring range</td>
<td>1.5 mm</td>
<td>2.2 mm</td>
<td>4 mm</td>
<td>8 mm</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.75 µm</td>
<td>1.1 µm</td>
<td>2 µm</td>
<td>4 µm</td>
</tr>
<tr>
<td>Linearity ¹</td>
<td>&lt; ± 30 µm</td>
<td>&lt; ± 44 µm</td>
<td>&lt; ± 80 µm</td>
<td>&lt; ± 160 µm</td>
</tr>
<tr>
<td>Temperature stability ¹,²</td>
<td>&lt; 2.25 µm / K</td>
<td>&lt; 3.3 µm / K</td>
<td>&lt; 6 µm / K</td>
<td>&lt; 12 µm / K</td>
</tr>
<tr>
<td>Temperature compensation ⁴</td>
<td>0 … +90 °C</td>
<td>0 … +90 °C</td>
<td>0 … +90 °C</td>
<td>0 … +90 °C</td>
</tr>
<tr>
<td>Min. target size (flat)</td>
<td>Ø 111 mm</td>
<td>Ø 156 mm</td>
<td>Ø 210 mm</td>
<td>Ø 420 mm</td>
</tr>
<tr>
<td>Sensor type</td>
<td>unshielded</td>
<td>unshielded</td>
<td>unshielded</td>
<td>unshielded</td>
</tr>
<tr>
<td>Connection</td>
<td>Plug connection via triaxial socket</td>
<td>Plug connection via triaxial socket</td>
<td>Plug connection via triaxial socket</td>
<td>Plug connection via triaxial socket</td>
</tr>
<tr>
<td>Mounting</td>
<td>3 x through-holes</td>
<td>3 x through-holes</td>
<td>3 x through-holes</td>
<td>3 x through-holes</td>
</tr>
<tr>
<td>Temperature range</td>
<td>+20 … +150 °C</td>
<td>+20 … +150 °C</td>
<td>+20 … +150 °C</td>
<td>+20 … +150 °C</td>
</tr>
<tr>
<td>Storage</td>
<td>0 … +150 °C</td>
<td>0 … +150 °C</td>
<td>0 … +150 °C</td>
<td>0 … +150 °C</td>
</tr>
<tr>
<td>Protection class (DIN-EN 60529)</td>
<td>IP64 (plugged)</td>
<td>IP64 (plugged)</td>
<td>IP64 (plugged)</td>
<td>IP64 (plugged)</td>
</tr>
<tr>
<td>Material</td>
<td>epoxy</td>
<td>epoxy</td>
<td>epoxy</td>
<td>epoxy</td>
</tr>
</tbody>
</table>

¹ Valid for operation with DT3300 controller, referred to nominal measuring range
² Relates to mid of measuring range
³ RMS value of the signal noise, static (25 Hz)
⁴ Higher values possible with TCS option
Connection cables for DT3300 portfolio sensors

**Sensors with integrated cable:** cable types ECx + ESx or EUx

- **Special coaxial cable**
  - Coaxial cable with Viton sheathing
  - Cable diameter: Ø 3.6 mm
  - Minimum bending radius: static approx. 18 mm / dynamic approx. 36 mm
  - Temperature resistance: up to 200 °C (3000 hrs.)
  - Available length: 1 m / 3 m / 6 m (9 m on request)

**Sensor cable with open ends for solder connection:** cable type ECx/1

- **Special coaxial cable**
  - Coaxial cable with Viton sheathing
  - Cable diameter: Ø 3.6 mm
  - Minimum bending radius: static approx. 18 mm / dynamic approx. 36 mm
  - Temperature resistance: up to 200 °C (3000 hrs.)
  - Available length: 1 m / 3 m / 6 m (9 m on request)

**Extension cable for plug connection:** cable type ECx/2

- **Special coaxial cable**
  - Coaxial cable with Viton sheathing
  - Cable diameter: Ø 3.6 mm
  - Minimum bending radius: static approx. 18 mm / dynamic approx. 36 mm
  - Temperature resistance: up to 200 °C (3000 hrs.)
  - Available length: 1 m / 3 m / 6 m (9 m on request)
Plug/Socket

1. **5-pole socket 0323109**: series 712
   - Type: 5 poles
   - Connection: screwed connector
   - Temperature resistance: 85 °C

2. **Triax plug 0323253**: Type SE102 A014-120 D4,9
   - Triaxial plug: Type: mB0
   - Connection: push-pull
   - Temperature resistance: 200 °C (3000 hrs.)

3. **Triax socket 0323121**: Type KE102 A014-120 D2,1
   - Triaxial socket: Type: fB0
   - Connection: push-pull
   - Temperature resistance: 200 °C (3000 hrs.)

4. **Triax plug 0323174**: Type S101 A005-120 D4,1
   - Triaxial plug: Type: mC0
   - Connection: push-pull
   - Temperature resistance: 200 °C (3000 hrs.)

5. **Triax socket 0323173**
   - Triaxial socket: Type: fC0
   - Connection: push-pull
   - Temperature resistance: 200 °C (3000 hrs.)
Subminiature sensors for restricted spaces
As well as standard sensors in conventional designs, miniature sensors with the smallest possible dimensions that achieve high precision measurement results are also available. Pressure-resistant versions, screened housings, ceramic types and other special features characterize these sensors, which achieve highly accurate measurement results despite their small dimensions. These miniature sensors are primarily used in high pressure applications, for example, in combustion engines.

**ES04/180(25) Shielded Sensor**
Measuring range 0.4 mm  
Temperature stability ≤ ±0.025 % FSO/°C  
Connection: integrated coaxial cable 1 m (Ø 0.5 mm), short silicon tube at cable exit  
Pressure resistance (static): front 100 bar  
Max. operating temperature: 180 °C  
Housing material: stainless steel  
Sensor cable: ECx/1 or ECx/2, length ≤ 6 m

**ES04/180(27) Shielded Sensor**
Measuring range 0.4 mm  
Temperature stability ≤ ±0.025 % FSO/°C  
Connection: integrated coaxial cable 1 m (Ø 0.5 mm) with solder connection board  
Pressure resistance (static): front 100 bar  
Max. operating temperature: 180 °C  
Housing material: stainless steel  
Sensor cable: ECx/1, length ≤ 6 m

**ES04/34 Shielded Sensor**
Measuring range 0.4 mm  
Temperature stability ≤ ±0.025 % FSO/°C  
Connection: integrated coaxial cable 0.25 m (Ø 2 mm) with sealed triaxial connector  
Pressure resistance (static): front 100 bar / rear side splash water  
Max. operating temperature: 150 °C  
Housing material: stainless steel and ceramic  
Sensor cable: ECx, length ≤ 6 m  
cable length 0.25 m ± 0.04 m

**ES04(35) Shielded Sensor**
Measuring range 0.4 mm  
Temperature stability ≤ ±0.025 % FSO/°C  
Connection: integrated coaxial cable 0.25 m (Ø 1.5 mm) with sealed triaxial connector  
Pressure resistance (static): front 100 bar / rear side splash water  
Max. operating temperature: 150 °C  
Housing material: stainless steel and ceramic  
Sensor cable: ECx, length ≤ 6 m  
cable length 0.25 m

**ES04(70) Shielded Sensor**
Measuring range 0.4 mm  
Temperature stability ≤ ±0.025 % FSO/°C  
Connection: integrated coaxial cable 0.25 m (Ø 0.5 mm) with solder connection board  
Pressure resistance (static): front 100 bar / rear side splash water  
Max. operating temperature: 150 °C  
Housing material: stainless steel and ceramic  
Sensor cable: ECx/1, length ≤ 6 m  
cable length 0.25 m
**EU1FL Unshielded flat sensor**

- Measuring range: 1 mm
- Temperature stability: ≤±0.025% FSO/°C
- Connection: integrated coaxial cable 0.25 m (ø 2 mm) with solder connection board
- Max. operating temperature: 150 °C
- Housing material: stainless steel and ceramic
- Sensor cable: ECx/1, length ≤ 6 m

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**EU05(93) Unshielded Sensor**

- Measuring range: 0.4 mm
- Temperature stability: ≤±0.025% FSO/°C
- Connection: integrated coaxial cable 0.25 m (ø 0.5 mm) with solder connection board
- Pressure resistance (static): front 2000 bar / rear side splash water
- Max. operating temperature: 150 °C
- Housing material: ceramic
- Sensor cable: ECx/1, length ≤ 6 m

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**ES05/180(16) Shielded Sensor**

- Measuring range: 0.5 mm
- Temperature stability: ≤±0.025% FSO/°C
- Connection: integrated coaxial cable 0.25 m (ø 0.5 mm) with solder connection board
- Max. operating temperature: 180 °C
- Housing material: stainless steel and epoxy
- Sensor cable: ECx/1, length ≤ 6 m

---

**ES05(36) Shielded Sensor**

- Measuring range: 0.5 mm
- Temperature stability: ≤±0.025% FSO/°C
- Connection: integrated coaxial cable 0.5 m (ø 0.5 mm) with solder connection board
- Max. operating temperature: 150 °C
- Housing material: ceramic
- Sensor cable: ECx/1, length ≤ 6 m

---

**EU05(10) Unshielded Sensor**

- Measuring range: 0.5 mm
- Temperature stability: ≤±0.025% FSO/°C
- Connection: integrated coaxial cable 0.25 m (ø 0.5 mm) with solder connection board
- Max. operating temperature: 150 °C
- Housing material: ceramic
- Sensor cable: ECx/1, length ≤ 6 m

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**EU05(66) Unshielded Sensor**

- Measuring range: 0.5 mm
- Temperature stability: ≤±0.025% FSO/°C
- Connection: integrated coaxial cable 0.25 m (ø 0.5 mm) with solder connection board
- Pressure resistance (static): front 400 bar / rear side splash water
- Max. operating temperature: 150 °C
- Housing material: ceramic
- Sensor cable: ECx/1, length ≤ 6 m

---

**EU05(72) Unshielded Sensor**

- Measuring range: 0.4 mm
- Temperature stability: ≤±0.025% FSO/°C
- Connection: integrated coaxial cable 0.25 m (ø 0.5 mm) with solder connection board
- Pressure resistance (static): front 2000 bar / rear side splash water
- Max. operating temperature: 150 °C
- Housing material: ceramic
- Sensor cable: ECx/1, length ≤ 6 m

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**EU05(65) Unshielded Sensor**

- Measuring range: 0.5 mm
- Temperature stability: ≤±0.025% FSO/°C
- Connection: integrated coaxial cable 0.25 m (ø 0.5 mm) with solder connection board
- Pressure resistance (static): front 700 bar / rear side splash water
- Max. operating temperature: 150 °C
- Housing material: ceramic
- Sensor cable: ECx/1, length ≤ 6 m

---

**EU05(81) Unshielded Sensor**

- Measuring range: 0.5 mm
- Temperature stability: ≤±0.025% FSO/°C
- Connection: integrated coaxial cable 0.25 m (ø 0.5 mm) with solder connection board
- Pressure resistance (static): front 700 bar / rear side splash water
- Max. operating temperature: 150 °C
- Housing material: ceramic
- Sensor cable: ECx/1, length ≤ 6 m
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<thead>
<tr>
<th>Article</th>
<th>Description</th>
<th>DT3001</th>
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<th>DT3060</th>
<th>DT3300</th>
<th>DZ140</th>
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Sensors and Systems from Micro-Epsilon

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Sensors and measurement devices for non-contact temperature measurement

Measuring and inspection systems for metal strips, plastics and rubber

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