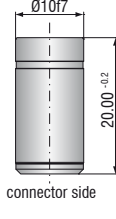


|                             |                    |  |  |  |  |  |  |
|-----------------------------|--------------------|---|---|---|---|---|---|
| Sensor type                 |                    | CS1   | CS1HP   | CSE1  | CSE1,25   | CS2   | CSE2  |
| Article No.                 |                    | 6610054   | 6610074   | 6610103   | 6610161   | 6610052   | 6610104   |
| Measuring range             | reduced            | 0.5 mm  | 0.5 mm  | 0.5 mm  | 0.625 mm  | 1 mm  | 1 mm  |
|                             | nominal            | 1 mm  | 1 mm  | 1 mm  | 1.25 mm   | 2 mm  | 2 mm  |
|                             | extended           | 2 mm  | 2 mm  | 2 mm  | 2.5 mm  | 4 mm  | 4 mm  |
| Linearity <sup>1)</sup>     |                    | ≤ ± 1.5 μm  | ≤ ± 1.5 μm  | ≤ ± 1 μm  | ≤ ± 1.25 μm   | ≤ ± 1 μm  | ≤ ± 2 μm  |
|                             |                    | ≤ ± 0.15 % FSO  | ≤ ± 0.15 % FSO  | ≤ ± 0.1 % FSO   | ≤ ± 0.1 % FSO   | ≤ ± 0.05 % FSO  | ≤ ± 0.1 % FSO   |
| Resolution <sup>1) 2)</sup> | static 2 Hz        | 0.75 nm   | 0.75 nm   | 0.75 nm   | 0.9 nm  | 1.5 nm  | 1.5 nm  |
|                             | dynamic 8.5 kHz    | 20 nm   | 20 nm   | 20 nm   | 25 nm   | 40 nm   | 40 nm   |
| Temperature stability       | Zero <sup>5)</sup> | -170 nm/K   | -60 nm/K  | -60 nm/K  | -65 nm/K  | -170 nm/K   | -170 nm/K   |
|                             | Sensitivity        | -32 nm/K  | -10 nm/K  | -10 nm/K  | -50 nm/K  | -64 nm/K  | -64 nm/K  |
| Temperature range           | Operation          | -50 ... +200 °C   | -50 ... +200 °C   | -50 ... +200 °C   | -50 ... +200 °C   | -50 ... +200 °C   | -50 ... +200 °C   |
|                             | Storage            | -50 ... +200 °C   | -50 ... +200 °C   | -50 ... +200 °C   | -50 ... +200 °C   | -50 ... +200 °C   | -50 ... +200 °C   |
| Humidity <sup>3)</sup>      |                    | 0 % ... 95 % r.H.   | 0 % ... 95 % r.H.   | 0 % ... 95 % r.H.   | 0 % ... 95 % r.H.   | 0 % ... 95 % r.H.   | 0 % ... 95 % r.H.   |
| Dimensions                  |                    | Ø10 × 21 mm   | Ø10 × 20 mm   | Ø8 × 12 mm  | Ø10 × 22 mm   | Ø20 × 24 mm   | Ø14 × 22 mm   |
| Active measuring area       |                    | Ø5.7 mm   | Ø5.7 mm   | Ø5.7 mm   | Ø6.5 mm   | Ø7.9 mm   | Ø8.0 mm   |
| Guard ring width            |                    | 1.5 mm  | 1.5 mm  | 0.9 mm  | 1.6 mm  | 4.4 mm  | 2.7 mm  |
| Minimum target diameter     |                    | Ø9 mm   | Ø9 mm   | Ø8 mm   | Ø10 mm  | Ø17 mm  | Ø14 mm  |
| Weight                      |                    | 8 g   | 8 g   | 3.5 g   | 8.2 g   | 50 g  | 20 g  |
| Material                    | Housing            | 1.4404 <sup>4)</sup> (non-magn.)  | NiFe (magn.)  | NiFe (magn.)  | 1.4404 (non-magn.)  | 1.4404 <sup>4)</sup> (non-magn.)  | 1.4404 (non-magn.)  |
| Connection                  |                    | type B  | type B  | type C  | type B  | type B  | type B  |
| Mounting                    |                    | clamping  | clamping  | clamping  | clamping  | clamping  | clamping  |

FSO = Full Scale Output

<sup>1)</sup> Valid with reference controller, relates to standard measuring range

<sup>2)</sup> RMS value of the signal noise

<sup>3)</sup> Non condensing

<sup>4)</sup> Titanium version available

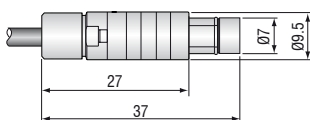
<sup>5)</sup> Sensor mounted in the mid of clamping area

### Mounting cylindrical sensors

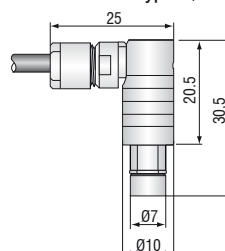
All sensors can be installed as both freestanding and flush units.

The sensors can be clamped or fastened using a collet.

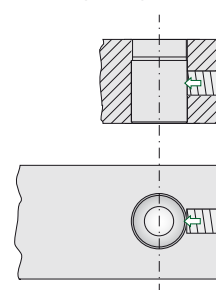
Connector type B



Connector type B/90



Mounting with grub screw (plastic)



Mounting with collet

