Press release

No. 644e

**Precise distance measurement for demanding industrial applications**

**Confocal sensors from Micro-Epsilon enable high-precision distance measurements, for example in industrial measurement tasks in semiconductor engineering and battery film production. With a large measuring range, a high linearity of < ± 1 micrometers and exceptionally high light intensity, the new confocalDT IFS2407-6 sensor detects even difficult surfaces reliably, quickly and with high precision.**

The Confocal chromatic sensors measure distances and surface profiles with high accuracy. They are based on the principle of chromatic aberration, in which white light is broken down into its spectral components. This can be used to precisely determine distance changes and thickness deviations in glass or films.

The confocalDT IFS2407-6 high-performance confocal sensor with a measuring range of 6 mm and outstanding linearity of < ± 1 µm is ideal for industrial applications. Thanks to the large numerical aperture of 0.45, the sensor offers high light intensity and enables accurate measurements even on dark or poorly reflective surfaces. The large measuring angle of ± 23 ° provides reliable results even on structured surfaces.

The sensor can be used at temperatures from +5 to +70 °C and can withstand shocks and vibrations. It is ideal for high-precision areas such as the semiconductor industry, but also for industrial applications such as in battery film thickness measurements. The robust aluminum housing protects the sensor in challenging operating conditions.

approx. 1,600 characters

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