Press release

No. 652e

**Recognition of color nuances on control elements**

**When manufacturing and assembling shiny metallic control elements in vehicles, color nuances must be recognized and differentiated. True Color sensors from Micro-Epsilon take on this task. Due to the new LCh color space, the colorSENSOR CFO250 meets the high requirements of the automotive industry.**

In the production and assembly of shiny metallic control elements in vehicles, not only the basic colors of products, but also materials and coatings must be recognized and differentiated. Changes to the surface structure, reflection and coloring can result in a different color perception, such as with panels and switches in the interior of a car.

**Testing during installation in operating elements**

The colorSENSOR CFO250 from Micro-Epsilon checks the parts for similar but different colors (e.g. different shades of silver). Their integrated multi-teach function enables the color sensors to reliably detect highly structured or curved components and monitor the correct installation in vehicle gearshift or control elements. The controller is used together with the CFS4-K18 & V14 reflex sensors for the measurement task.

**New LCh color space**

The True Color sensors from Micro-Epsilon offer high color accuracy and repeatability. The multi-teach function enables teach-in of up to 320 colors in 254 color groups.

The new LCh color space makes the colorSENSOR CFO250 also suitable for the color measurement regulations commonly used in the automotive industry. Its high measurement speed enables the True Color sensor to evaluate 7,500 parts per second and transfer them directly to a process controller at 30 kHz via the switching outputs. Operation is intuitive via the web-based interface.

*approx. 1,700 characters*

 (PR652\_colorSENSOR-CFO250-Application-Controls.jpg)