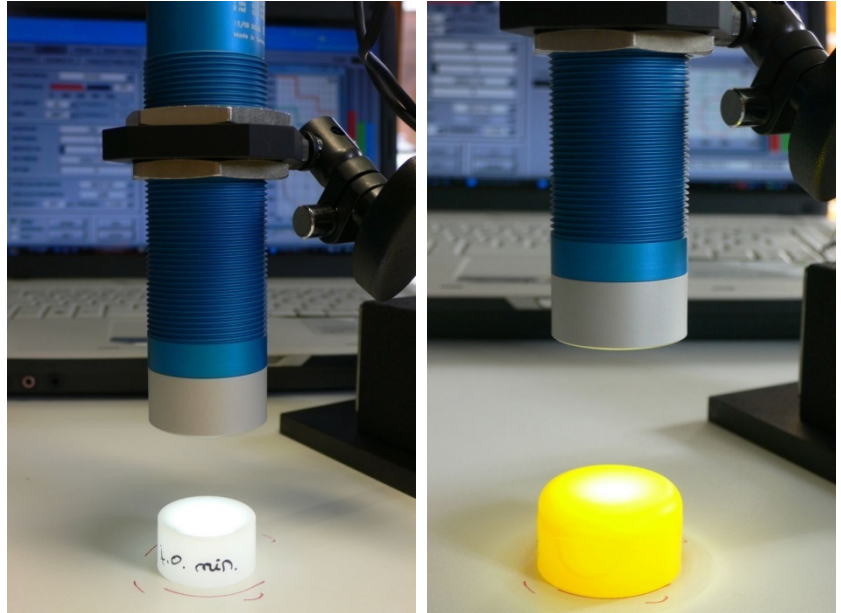




1. Closure head color control

On plastic closure heads the color can be sometimes slightly different. The reason is, that the relation between the master batch and the colorless granulate material during the feeding process to the extruder can slightly change. Another reason for a color shift in the closure heads is perhaps the different temperature of the melted plastic material during the extruding process. The investigations on different closure heads have shown that the color shifts can be properly detected with color sensors from the SPECTRO-3 series. However, due to the different closure heads, some of the closure heads are optical



transparent, different SPECTRO-3 sensors should be used. For the transparent closure heads the **SPECTRO-3-50-POL** in combination with a reflector delivers the best results, whereas the **SPECTRO-3-30-DIL** is recommended for the milky closure heads. As shown in the screen shots, a proper differentiation of the closure heads in one group respectively, can be reached for all of the investigated closure heads.



Another application demands a

SPECTRO-3-30-UV fluorescent color sensor to check, whether the additional seal inside the enclosure head is present or not. Due to the fact, that the additional seal is UV fluorescent, the differentiation is very easy.

