



1. Color differentiation of flaps in cup holders

Black flaps should be color differentiated from dark brown flaps.

During the tests the flaps are already integrated into the cup holder. For this purpose a color sensor type **SPECTRO-3-FIO-SLE** in connection with an optical fiber type **R-S-R2.1-(6x1)-1200-67°** and an optical frontend type **KL-M34-XL-R2.1** will be used. The distance from the optical frontend to the respective flap is approximately 85mm, the spot size at this distance is around 8mm x 1.2mm and the frontend is roughly arranged perpendicular to the bottom of the cup holder. As shown in the screen shots, the flaps can be proper color differentiated.

