



### 1. Color differentiation of three different plastic components in the interior field

Three different colored plastic parts should be differentiated. For this purpose a color sensor type **SPECTRO-3-FIO-JR** in connection with an optical fiber type **R-S-R2.1-(6x1)-1200-67°** and an optical frontend **KL-8-R2.1** are used. The distance from the frontend to the plastic part is approximately 11mm and the spot size at this distance is around 3mm x 0.5mm. A proper differentiation of the plastic parts is possible, as shown in the screen shots.

