



### 1. Color control of injection moldings

Injection plastic parts should be color controlled. It has to be taken into account, that the surface of the plastic part is different in the degree of gloss as well as in the color. Only the narrow frame delivers nearly a constant degree of gloss. Thus, the color should be controlled at the narrow edge. 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 type **KL-8-R2.1** are used. The distance from the frontend to the injection part is here approximately 16mm and the spot size at this distance around 7mm x 1.2mm. The good parts can be proper separated from the bad parts as shown in the screen shots.

