



1. Presence control of transparent labels on plastic caps

The presence of transparent labels on plastic caps should be controlled. For this purpose, a color sensor type **SPECTRO-3-FIO-ANA** in connection with an optical fiber type **R-S-R2.1-(6x1)-1200-67°** and an optical frontend type **KL-8-R2.1** is used. At this, the distance from the optical frontend to the transparent label is approximately 10mm and the spot size at this distance is around 4mm x 0.7mm. The transparent labels can be properly detected as shown in the screen shots.

