



1. Color mark detection on aluminum foil

Black shiny color marks on a black matt aluminum foil and dark orange marks on an orange background should be detected. 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** is used. At this, the distance from the optical frontend KL-8-R2.1 to the respective color mark is approximately 11mm.

Furthermore, the optical axis is directed perpendicular to the aluminum foil and the spot size at the color mark distance is around 4mm x 0.7mm. In selecting the color mode **THD** in addition to **EXT TEACH ON** the color marks can be properly detected as shown in the screen shots.

