



1. Detection of a line engraving on the bearing surface of a pulley

An engraved line on the bearing surface of a black pulley 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** are used. At this, the optical frontend **KL-8-R2.1** is directed onto the bearing surface, the distance from the frontend to the surface is approximately 15mm and the white light spot size at the bearing surface is around 5mm x 0.8mm. The angle of the **KL-8-R2.1** to the vertical axis of the pulley is roughly 35°. As shown in the screenshots, the engraved line can be properly detected.

