



1. Color differentiation of cogwheels

The task is to differentiate between black coated and non coated cogwheels. Furthermore the minimum distance from the sensor to the object should be 160 mm. At this a color sensor type **SPECTRO-3-FIO-JR** in connection with a **KL-M34/62-R2.1** and an optical fiber **R-S-R2.1-(6x1)-1200-67°** is used. The spot size at this distance is approximately 9mm x 3mm. As shown in the screenshots the cogwheels can be proper differentiated.

