



1. Differentiation of black finished metal rod and metal rod

Black bronzed metal rods should be distinguished from metal rods. 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 front end type **KL-8-R2.1** is used. At this, the distance from the front end to the object is approximately 15mm and the spot size at this distance is around 6mm x 1mm. The black bronzed metal rods can be proper differentiated from the metal rods as shown in the screenshots.

