



1. Differentiation of silver-colored screws from black coated screws

Silver-colored screws should be differentiated from black coated screws. For this purpose, a color sensor type **SPECTRO-3-FIO-JR** in connection with an optical fiber type **R-S-A3.0-(3.0)-1200-67°** and an optical frontend type **KL-M34-XL-A3.0** is used. At this, the distance from the optical frontend to the screws is approximately 210mm and the spot size at this distance is around 10mm in diameter. The screws can be proper differentiated as shown in the screenshots.

