



### 1. Detection of plastic residues on the start of metal thread

Plastic residues on the start of metal threads should be detected. For this purpose a color sensor type **SPECTRO-3-FIO-SL** in connection with an optical fiber **R-S-R2.1-(6x1)-1200-67°** and an optical frontend type **KL-M18-XL-R2.1** are used. The distance from the frontend to the object is approximately 80mm and the spot size at this distance is around 6mm x 1mm. Furthermore, the optical axis of the frontend is arranged under an angle of 30° to the vertical axis. The plastic residues can be proper detected as shown in the screen shots.

