



### 1. Differentiation of chrome plated shiny and chrome plated matt components

Chrome plated shiny components must be distinguished from chrome plated matt parts. The size of the objects is equal; there is only 8 mm space in height under the object for the sensor front end.

Therefore just an optical fiber **R-S-A2.0-(2.5)-1200-67°** in connection with a color sensor **SPECTRO-3-FIO-CL** is used for this application. The head of the optical fiber is directed under a flat angle against the inner ring of the chromated parts, at

this the distance of the optical fiber to the inner ring is approximately 15 mm. Due to the higher direct forward reflection of the shiny components the signal decreases faster compared to the matt parts. As shown in the screen shots a proper differentiation between the shiny and matt chromated parts is possible.

