



1. Color differentiation between a black and an uncoated metal gear wheel

A black metal gear must be distinguished from an uncoated metal gear. The distance from the sensor to the object should be 160 mm and the spot size should be around 3 mm in diameter. Thus a color sensor **SPECTRO-3-FIO-CL** in connection with an optical fiber **R-S-A2.0-(2.5)-1200-67°** and an optical front end type **KL-M34/42-A2.0** are used. As shown in the screen shots, the two different objects can be proper detected.

