



1. Detection of a welding line on a metal rod

The welding line must be detected during the rotation of a metal rod. Due to the fact, that there can be scratches as well as rust on the metal surface, a color sensor type **SPECTRO-3-FIO-CL** and an optical fiber **R-S-R2.1-(6x1)-1200-67°** with a rectangular aperture in combination with a **KL-8** optical front end will be used. Thus, a spot of 4mm x 1mm will be projected onto the metal rod. Furthermore a second sensor from the same type will be used in parallel, to avoid any detection failures. It is absolutely necessary, to use here the **GROUP ON** mode, because of the different colors of the welding lines and of the differences of the surface of the metal rods.



Field of application:

Metal industry

