



1. Welding line detection on stainless steel tubes

A welding line should be detected on stainless steel tubes. For this purpose a double contrast sensor type **SPECTRO-2-FIO-(VIS/VIS)/(VIS/VIS)** in connection with an optical fiber type **R-S-A3.0-2x(3x1)-1200-Y-67°-2P/2P** and an optical frontend type **KL-9-A3.0** are used. At this, the distance of the optical frontend to the object is approximately 10mm, the spot size at this distance is around 1.5mm x 0.5mm for each of the two spots and the gap between the two spots is 0.5mm. Furthermore, the frontend is 20° tilted to the vertical axis. The welding line can be proper detected as shown in the screen shots.

