



1. Wall thickness control of semitransparent plastic components

The wall thickness of semitransparent plastic components should be determined. It should be taken into account that the opacity correlates to the wall thickness of the plastic parts. For this purpose a contrast sensor type **SPECTRO-1-FIO-IR** in connection with an external lightning source **ELS-IRL** and an optical fiber type **R-S-R2.1-(6x1)-1200-67°** will be used. At this, the distance of the lightning source to the plastic object is approximately 60mm and the spot size at this distance is around 9mm x 0.2mm. Furthermore, distance of the frontend of the optical fiber at the receiver side is roughly 15mm. The wall thickness of the plastic parts can be proper controlled as shown in the screen shots.

