



1. Color control of PET preforms

Different colored PET preforms which are used in the bottle industry should be differentiated. For this purpose a color sensor type **SPECTRO-3-FIO-JR** in connection with a through beam optical fiber type **D-S-A2.0-(2.5)-1200-67°** and an optical frontend type **KL-M18-A2.0** at the transmitter side are used. The distance from the transmitter frontend to the preform is approximately 20mm and the spot size at this distance is around 4mm in diameter. The distance of the optical fiber at the receiver side to the object is around 15mm. As shown in the screen shots, a proper differentiation of the preforms is possible.

