



1. Detection of a gap between successive hygiene articles during the transportation in a conveyor belt

Panty liners will be transported between two belts. The beginning as well as the end of a panty liner should be detected. Furthermore, a gap between two successive panty liners should be detected. The only practicable possibility is to look through the two conveyor belts. For this purpose an infrared sensor type **SPECTRO-1-FIO-IR** in connection with an optical fiber type **R-S-A3.0-(3.0)-1200-67°**, an optical frontend type **KL-M18-A3.0** and an external lightning source type **ELS-IRL-FIO** is used. The distance from the lightning source to the conveyor belt is approximately 30mm and from the receiver frontend **KL-M18-A3.0** to the conveyor belt around 20mm. A proper detection of the panty liner as well as the gap between two successive panty liners is possible, as shown in the screen shots.

