



1. Fluorescent thread presence control on diapers

The presence of fluorescent threads in diapers should be controlled. For this purpose a color sensor type **SPECTRO-3-FIO-UV** in connection with an external UV lighting source type **ELS-UV-1P**, an optical fiber type **R-S-R2.1-(6x1)-1200-Y-22°/67°-UV** and an optical frontend type **KL-8-R2.1** will be used. The distance of the optical frontend to the thread is approximately 18mm and the spot size at this distance is around 8mm x 1.5mm. The fluorescent thread can be proper detected as shown in the screen shots.

