



1. Detection of a thread on an aluminum coil

A thread is wound on an aluminum coil and the height of the coil which is covered from the thread should be detected. Due to the installation situation, the only way to realize it is to look through the holes of the coil. At this a color sensor type **SPECTRO-3-FIO-JR** in connection with an optical fiber type **R-S-A2.0-(2.5)-1200-67°** and an optical frontend type **KL-3** is used. The distance from the frontend to the coil is approximately 11mm. As shown in the screenshots, a proper differentiation between “holes covered from the thread and holes free” is possible.

