



### 1. Presence control of a blind thread in aluminum casting

An internal thread in an aluminum casting should be detected; furthermore the blind thread should be differentiated from a blind hole. For this purpose, a color sensor type **SPECTRO-3-FIO-SL** in connection with an optical fiber type **R-S-A2.0-(2.5)-1200-67°** and an optical frontend type **KL-3** are used. At this, the optical axis of the frontend is around 10° inclined to the vertical axis and the distance from the probe to the blind thread is approximately 11mm. As shown in the screen shots, the blind thread can be properly detected and even differentiated from a blind hole.

