1. Differentiation of blind holes and blind threads

On metal blocs a presence control of blind threads and blind holes should be realized. At this a color sensor type **SPECTRO-3-FIO-CL** in connection with an optical fiber type **R-S-A2.0-(2.5)-1200-67°** and an optical front end type **KL-M18-A2.0** (or **KL-3-A2.0** for small holes and) is used. The frontend is directed 45° to the vertical axis onto the thread and the hole. The distance from the frontend to the object is around 20 mm (11mm if the KL-3-A2.0 is in use). There is a proper differentiation between the blind hole and the respective blind thread possible.