



### 1. Detection of a metal sheet on a stack

Metal plates are removed from a stack with a robot. After the last metal sheet is removed a sensor should inform the robot to avoid that the base plate will be sucked up from the robot too. The base plate can consist of MDF (medium density fiberboard), wood, rubber or even a metal which is different from the metal sheet. At this a color sensor type **SPECTRO-3-50-FCL** is used. The distance from the sensor to the base plate is around 80 mm and the angle to the vertical axis is roughly 50°. As shown in the screenshots a proper detection of the base plate is possible. The system is running in the DYN1 mode, thus the sensor unit can be adapted ideal to the surface of the respective metal sheet.

