



1. Double sheet control

Metal plates should be removed from a stack with a robot. The robot sucks the metal sheets one by one and it should be avoided for safety reasons to move two metal sheets simultaneously. A sensor should detect double sheet not from the top but from the side. Furthermore, the system should be adapted automatically after a change of the type of metal sheet (different thickness or different metal). At this a reflective line scan detector type **L-LAS-RL-20-W** is used. The distance from the sensor to the object is approximately 55mm and the detecting range is roughly 20mm. As shown in the screen shots a proper differentiation between the presences of one or two metal sheets is possible.

