1. Distance measurement on transparent glass plates

During the handling process of glass plates the distance of the glass surface must be controlled. As during the beveling process the glass plate must be positioned in a way that the glass edges can be feed symmetrically into the abrasive block of the grinding machine, otherwise the phases on both sides of the glass plate are different. Due to the fact, that the glass surface delivers nearly no diffuse reflected light but only direct reflected light, a standard laser displacement sensor cannot be used. The laser displacement sensor **L-LAS-LT-85-RA-CL**, however, is especially prepared for measuring on transparent objects in the direct reflective way. To get a proper result, the reflected laser light from the glass plate must strike the receiver optics of the laser sensor, which means that the laser sensor must be tilted. There are two reflected beams, one from each glass surface, but the signal from the second beam will be neglected by the sensor software. As shown in the screen shots the laser displacement sensor delivers proper results.