



### 1. Diameter measurement and position control of glass rods

The diameter as well as the position of glass rods, the starting product of optical fibers, should be measured. Typical diameters of glass rods are in the range of 20mm to 90mm. For this purpose a laser through beam sensor type **L-LAS-TB-100-T-CL** (transmitter) and **L-LAS-TB-100-R-CL** (receiver) is used. The distance of the transmitter to the receiver is approximately 200mm and the rod is placed at a distance of 100mm to the receiver. The diameter as well as the perpendicular position of the axis of the glass rod can be measured simultaneously. At this the sensor input signal can be used to switch the analog output signal from diameter measurement to position measurement. As shown in the screen shots the diameter and the position of the glass rod can be properly measured, even if the glass rod is optical transparent.

