



### 1. Capsule direction control

The direction of capsules in a mechanical guide should be controlled. The capsules consist of two parts at which one component has a diameter which is approximately 0.3 mm bigger as the other.

The capsules will be linearly moved with a speed of 0.4 m/s and the diameter of the different types is between roughly 3mm and 8mm.

The color of the capsules can change from white to black, all colors even transparent types are possible. At this a laser linescan fork light

barrier type **L-LAS-TB-F-6x1-40/40-CL** is used. The laser sensor comes with a scan frequency of approximately 800 Hz and with a measurement line of around 6.5 mm. As shown in the screenshots, the direction of the capsules can be proper detected.

