



### 1. Orientation control of maize kernels

During the corn handling, the orientation of maize kernels should be controlled. For this purpose, a color sensor type **SPECTRO-3-FIO-JR** in connection with an optical fiber type **R-S-A3.0-(3.0)-1200-22°-UV** and an optical frontend type **KL-9-A3.0** is used. At this, the distance from the optical frontend to the object is approximately 11mm and the spot size at this distance is around 4mm x 0.7mm. The orientation of the maize kernels can be proper detected as shown in the screen shots.

