

Application - News N°79 SPECTRO-3 Series

Instruments

1. Differentiation of ball bearings

Ball bearings with the same size but with a different color ring must be differentiated. At this one ball bearing type has a golden colored inner ring, whereas the other type is equipped with a silver colored inner ring. The ball bearing has to be controlled at a minimum distance of 160 mm. Investigations were made with the **SPECTRO-3-**

FIO-CL in connection with an optical fiber type R-S-A2.0-(2.5)-1200-67° and an optical frontend type KL-M34/42-A2.0. The spot size of the white light at a distance of 160 mm from the frontend is approximately 3 mm. As shown in the screen

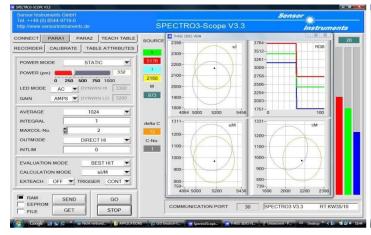












shots, the sensor system delivers proper results.

