



1. Gap detection on iron cores of electrical motors

During the fast rotation of an iron core the gap should be detected. For this purpose, a color sensor type **SPECTRO-3-FIO-SL** in connection with an optical fiber type **R-S-R1.1-(3x0.5)-1200-67°** and an optical front end type **KL-5-R1.1** are used. The distance of the front end to the object is approximately 11 mm and the spot size at this distance is around 2 mm x 0.3 mm. The gap can be proper detected as shown in the screen shots.

