



1. Detection of a gap on a wheel rim

A gap on an aluminum wheel rim should be detected. At this, the wheel is rotating with a speed of 50 rpm. For this purpose a **SPECTRO-3-FIO-JR** in connection with an optical fiber type **R-S-R1.1-(3x0.5)-1200-67°** and an optical frontend **KL-5-R1.1** is used. The distance from the optical frontend to the wheel rim is approximately 11mm and the spot size is around 2mm x 0.3mm. A proper detection of the gap is possible.

