



### 1. Control of the contact surface of gear wheels

The contact surface of gear wheels should be controlled. For this purpose a color sensor type **SPECTRO-3-FIO-ANA** in connection with an optical fiber type **R-S-R2.1-(6x1)-1200-67°** and an optical front end type **KL-M18-XL-R2.1** is used. At this, the distance to the object is approximately 100mm and the spot size at this distance is around 12mm x 2mm. The contact surface can be proper detected as shown in the screen shots.

