



1. Optical control of electrical contacts on a partly plastic covered stamping part

In the error case the electrical contacts of a stamping part can be slightly covered with a thin plastic film. This should be detected with an optical system. Therefore a color sensor type **SPECTRO-3-FIO-JR** in connection with an optical fiber type **R-S-A1.1-(1.5)-1200-67°** and an optical frontend type **KL-4-A1.1** is used. Due to the fact that the stamping parts arranged on a stamping stripe the six contacts can be controlled in series, one by one. At this, six color sensors are necessary for this control task. The distance of the frontend to the contact is approximately 11mm and the spot size at this distance is around 0.8mm. As shown in the screen shots a proper detection of the plastic coated contacts is possible.

