

1. Color control of the presence or absence of the flux

During the assembling process of photovoltaic cells on a stringer machine the conduction band must be controlled in respect of the presence or absence of the soldering flux. In absence of the flux the surface of the contact strip is glossy, thus the reflectivity is high. If how-

ever the flux is present, the surface of the conduction band is white and diffuse and the direct reflectivity is low. The investigations have shown, that a proper differentiation between the diffuse and glossy surface is possible with a color sensor type **SPECTRO-3-30-POL** directed under an angle of 45° to the contact stripe. At this the distance to the object is approximately 30 mm.



