



1. Detection of a colored line on a MDF plate

A red colored line should be detected on the surface of a MDF plate. At this the color of the stripe differs in intensity and slightly in color. Furthermore the structure of the MDF surface can also change from coarse to fine. For this purpose a color sensor type **SPECTRO-3-FIO-JR** in connection with an optical fiber type **R-S-R2.1-(6x1)-1200-67°** and an optical frontend type **KL-8-R2.1** is used. The distance from the frontend to the object is approximately 18mm and the spot size on the MDF surface at this distance is roughly 6mm x 1mm. As shown in the screen shots, the colored stripe can be proper detected, even if the structure of the MDF surface is changing.

