Application - News
N°237 SPECTRO-1 series

Sensor Instruments — Let's make sensors more individual

1. Color mark position control

The position of printed color marks on aluminum foils and plastic films should be controlled. At this, the sensor system should deliver an analogue signal which is proportional to the position of the color mark. For this purpose a contrast sensor type **SPECTRO-1-FIO** in connection with an optical fiber type **R-S-R1.1-(3x0.5)-1200-67°** and an optical frontend type **KL-5** are used. The distance of the frontend to the color mark is approximately 11mm and the white light spot size at this distance is around 2mm x 0.3mm. The sensor comes with an analog output 0V…+10V as well as 4mA…20mA; furthermore, the sensor delivers two digital outputs. The maximum scan frequency is roughly 150 kHz. As shown in the screenshots, there is a precise positioning possible.