



Application - News

N°264 SPECTRO-3 series

Sensor

Let's make sensors more individual

Instruments

1. Detection of a red color mark on an aluminum rod

The task is to detect a red color mark on an aluminum rod (the red color mark informs about defect metallurgic domains in the aluminum rod). At this, the red paint which is used for color marking can differ and furthermore it can happen that the color mark is partly scraped. In addition an aluminum surface can be contaminated with rust (comes from a steel band, which is used for fixing the rods in a former process), which drifts also into the red color. For this purpose a color sensor type **SPECTRO-3-500-COF-d25.0-CL** is used. The distance of the color sensor to the aluminum rod is approximately 500mm and the white light spot size at this distance is around 25mm. It should be taken into account, that the white light spot is not pointed to the center axis of the aluminum rod, but a bit eccentric. The red color mark can be properly detected even if the aluminum surface is contaminated and the red mark partly scraped.

