

Application - News

Sensor

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Instruments

N°88 SPECTRO-3 series

1. Fluorescent glue control on an abrasive belt

During the production of abrasive belt material with a 10 mm wide glue stripe the presence of the

fluorescent glue must be observed.

Defects greater than 2 mm in length must be proper detected. The distance of the sensor head to the object should be approximately 20 mm and the detecting range around 2 mm x 10 mm.

With the color fluorescent sensor

SPECTRO-3-FIO-UV in connection with an external UV light source ELS-UV-1P and an optical fiber R-S-R2.1-(6x1)-1200-Y-22°/22°/67°-UV equipped with an optical frontend KL-8-R2.1, the

application can be proper solved. The test results are shown in the attached screen shots. Two small defects, one of the defects has a length of 1 mm whereas the length of the other defect is roughly 2 mm, can be proper detected. In case of presence of a defect the signal intensity **M** decreases and the color **s i** changes as well. The distance of the optical frontend to the glue stripe is about 20 mm, the size of the UV spot around

4 mm x 14 mm at this distance.















