

## Press Release Sensor Instruments

January 2025

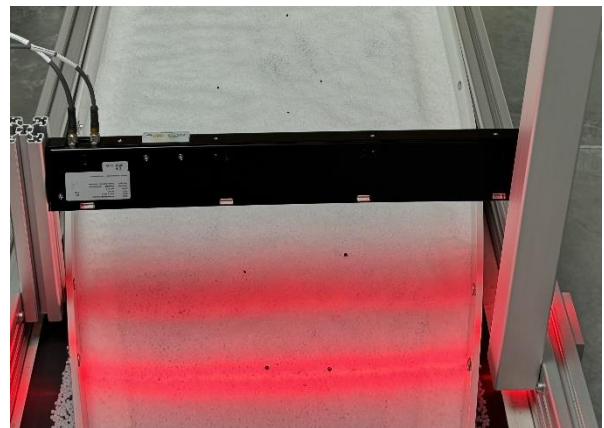
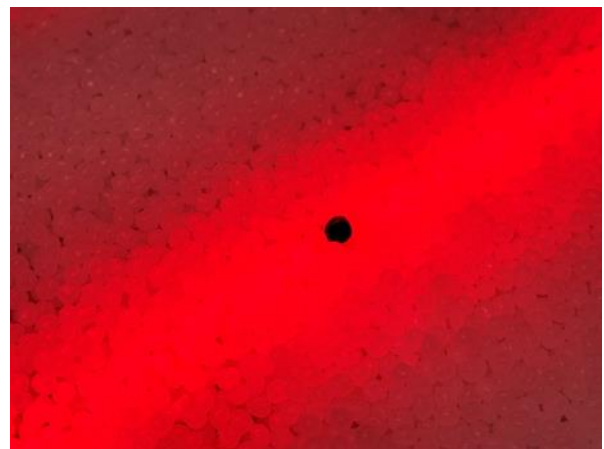
### Detection of dark pellets in the natural-colored recycle flow

Recyclate control by means of a line scan camera system

#### 01/20/2025. Sensor Instruments GmbH:

During the production of recyclates, deposits, particularly on the mechanical filters, can lead to undesirable color deviations from the intended recyclate color. Particularly in the case of light-colored recyclate, for example so-called natural-colored granulate, individual dark grains can lead to unacceptable discoloration during further processing.

The task of the line sensor system type **L-LAS-CAM-512-CL** used in conjunction with a wide-angle lens type **MO-G-1.6/16** and a line emitter type **LU-LED-430-RED** is to detect individual dark pellets in the recyclate flow on the vibrating feeder and to generate a digital signal (+24V pulse) at the same time. The number of pulses per time unit is then determined by means of a PLC. If a certain pulse rate is exceeded, the contaminated material is separated from the recyclate flow.



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