Coldglue detection
RobaScan 3D

improved quality of production | reduced reject rate |
innovative monitoring of the glue bead

Robatech
Gluing Technology

RobaScan 3D

Application

Uninterrupted monitoring of the gluing process is provided by RobaScan 3D to eliminate nonconformities in the production of packaging articles. Monitoring of the applied glue in respect of quantity and position becomes increasingly important. Various attempts have already been made in this direction, but they often failed in the reliability of the detection. Typical reasons for this are minor colour differences with contrast-based optical processes or variations of the position (fluttering of the cardboard) in case of dot or one-dimensional processes. Such effects lead to pseudo-defects with an unacceptable reject rate.

RobaScan 3D

RobaScan 3D has brought the breakthrough. The reliability is vastly improved since the sensor detects the profile of the applied glue with a high scanning rate. No additives in the glue are required for this purpose and the device copes brilliantly even with the most difficult substrates. And this without contact, of course.

Fast and cost-efficient

Thanks to the precise detection of faults one gains time and can even save overheads. RobaScan 3D sounds the alarm immediately a defect occurs so that the appropriate measures can be initiated as desired.

Detection variants

- For AS 50 AK with 1...4 channels
- For AS 60 AK with 1...8 channels
- For PLC control

Linked to one of these controls, RobaScan 3D can be operated in an optimal manner. The sensor is parameterized over the matched interface and the settings filed job-specifically in the control. RobaScan 3D can also be operated directly with a PLC, however.

Features and advantages:

- Highest reliability
- For intermittent and continuous applications
- Contactless on-line detection
- Digital output for PLC
- Parameterizing interface RS 422
- Also qualified for hotmelt if the glue is not transparent

Technical data

Scan rate	2500 Hz, reaction time 0.4 ms
Scan window	3, 6, 9, 12, 15 and 18 mm, adjustable in control
Bead width	0.5...10 mm
Bead height	min. 0.2 mm
Distance to cardboard	45...65 mm, optimal 55 mm
Operating voltage	24 Volt DC ± 20 %
Power consumption	max. 200 mA
Digital output	Load 50 mA
Dimensions	90 x 82,5 x 21 mm
Protection class	IP 67
Laser radiation	Wavelength 670 mm, power max. 3.1 mW, class 3R