



Inspection of adhesive beading on termination strip

In the vehicle manufacturing process, the fitting of strips onto glass represents a critical stage in the process which was previously difficult to inspect. Since the termination strip is glued to glass, the exact application of the special adhesive is of decisive importance. In car production, the dimensional monitoring of height, width and position is required rather than just a check of presence/absence.

The robot which applies the adhesive to the strip also carries out the inspection in a second movement. In this respect, the strip is moved under the sensor. The system scanCONTROL 2910-25 acquires the profile of the adhesive beading and calculates the characterising parameters online directly in the sensor head.

The system assesses the position of the adhesive beading relative to the strip, determines the width and height and provides tolerance infringements as control signals via digital outputs. The tolerance limits for height, width and position of the adhesive beading are directly configured in the controller using the scanCONTROL configuration tools software included in the supplied items. The complete system therefore runs in the equipment independently of an external PC.

Advantages

- High speed
- Measurement in height and width relative to the strip
- Measurement also possible when sensor is tilted
- Dynamic tracking of the measuring range
- Analysis and assessment directly in the sensor head
- Rugged and economical system implementation
- Easy fitting and use

Requirements

- Measuring range: 25x25mm
- Resolution width measurement: 20 μ m
- Resolution height measurement: 2 μ m
- Measurement frequency: 300Hz

Ambient conditions

- Temperatur: 10 to 35°C
- No dust or contamination

System design

- scanCONTROL 2910-25
- scanCONTROL Configuration Tools