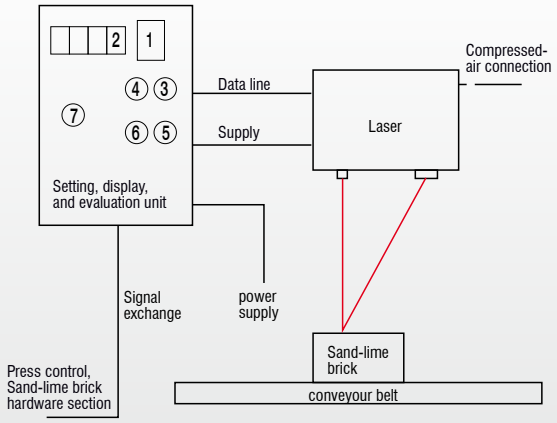
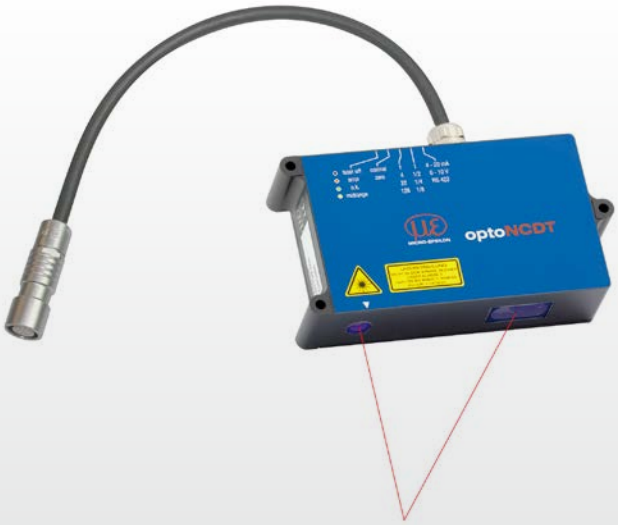
A066

Laser sensors

optoNCDT

MICRO-EPSILON





Inline inspection of the dimensions of sand-lime bricks

After pressing the sand-lime, brick blanks are placed onto a hardening carriage. Even smallest changes in the mixture, moisture, or in the pressing force lead to undefined growth of the bricks and make it difficult to observe the required brick height. A non-contact laser-optical measuring system with downstream evaluation logic is installed above the conveyor belt.

This system measures the brick height and allows automatic signalling and sorting of the products that exceed the upper or lower tolerance limits. The limit values are entered by means of a hand-held keyboard. Actual values and setpoint values are indicated on a digital display. The sensor is protected by a protective enclosure with compressed-air connection, which makes it possible to as well use the system in a rough environment.

Requirements for the measurement system

- Measuring range: 0 - 500mm
- Resolution: 0.1mm

Ambient conditions

- Temperature: 0-40°C
- Environment: dirt, dust

Reasons for choosing the system

- Non-contacting brick height measurement
- Large offset distance
- Easy installation and operation
- Robust and reasonably priced system design
- The possibility of adaptation makes the system independent of press type and press make