

New Products

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Thanks to Light Band Technology: a Single Sensor for All Objects

wenglor's Light Band Sensors Accurately Detect Front Edges of Various Shaped Objects

Highly convincing across the board: Thanks to their continuous, homogenous light band, wenglor's new retro-reflex sensors can also reliably detect objects with irregular or asymmetrical shapes, for example in the field of intralogistics. With three models for different light band heights, high levels of user-friendliness and special logistics functions, wenglor provides an economically efficient and easy-to-use solution, for example in order to prevent bottlenecks and jams in warehouse processes. This results in improved productivity, increased system availability, more flexible production and reduced costs.

Retro-reflex sensors with light band P1EL100 (27 mm light band height), P1EL200 (42 mm light band height) and P1EL300 (54 mm light band height) have been developed as two-dimensional light barriers with homogenous laser light band. They recognize objects with various shapes or perforated surfaces – even dark, transparent or glossy objects are accurately detected – at a range of up to 1.6 m. “In contrast to comparable products available from the market, all of wenglor's models can detect extremely small parts down to 4 mm throughout the entire range of 0 to 1.6 m thanks to the collimated, homogenous laser light band with laser class 1,” explains wenglor product manager Stefan Reetz. “Beyond this, smart functions integrated into the sensor such as the suppression of uneven conveyor belt areas through the use of dynamic teach-in and dynamic readjustment of the switching threshold, as well as the very narrow housing with a width of just 27 mm, offer tremendous application and installation advantages.”

Quick and Easy Initial Start-Up with Teach-In Key

The sensors with light band can be taught in quickly in an uncomplicated manner by simply pressing a key. Clever: In order to avoid inadvertent contact with the key and to permit flush mounting, the key is located at a slightly recessed area on the housing. External teach-in is also possible via the controller using a 24 V voltage signal.

The dynamic teach-in function is also highly advantageous for use on conveyor belts: Uneven conveyor belt areas can be easily suppressed. Even extremely small parts as little as 4 mm can be reliably detected in the additional precision teach-in mode.

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Diverse Mounting Equipment for Any System

The sensors combine emitter and receiver in a single narrow housing with a width of just 27 mm, which can be mounted to the side panels of conveyor systems in just a few easy steps. The sensor's plug can be rotated up to 180° for flexible installation and matching mounting brackets, M4 through-bolts and press-fit sleeves, as well as reflector sets, simplify precision installation and alignment of the retro-reflex sensor.

The Highlights at a Glance

- Precision front edge detection of variously shaped objects
- Three different light band heights: 27, 42 and 54 mm
- Range up to 1.6 m
- Visible laser light, laser class 1
- Homogenous (collimated) laser light band even detects extremely small parts (≥ 4 mm)
- Reliable detection of dark, transparent and glossy objects
- Suppression of uneven conveyor belt areas thanks to dynamic teach-in function
- Dynamic readjustment of the switching threshold
- Flexible mounting options thanks to 180° rotatable plug
- Compact housing for space-saving installation in systems

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Caption

They don't miss anything: the new retro-reflex sensors with light band embody reliability, precision, efficiency and simple operation.

About wenglor sensoric GmbH

wenglor develops innovative automation technologies including sensors, as well as safety and camera systems with state-of-the-art communication standards for the worldwide market. Founded as a two-man business in 1983, the family company has since evolved into one of the most important international sensor suppliers with more than 800 employees around the world. The company with headquarters on Lake Constance in Tettngang, Germany, meets industrial automation challenges for customers in all industry sectors – from automobile manufacturing to the packaging industry. Around the world, over 55,000 customers in 45 countries are already relying upon wenglor's innovative products.