



See More. Detect Smart.

P1PC Laser Distance Sensors Triangulation



SEE MORE.
DETECT SMART.

2s 5s



The Right Solution for Every Application

The P1PC series expands the portfolio as an economical alternative to the P3 series. The P1PC laser distance sensors triangulation fulfill a broad spectrum of requirements and can be adapted precisely to a wide range of applications. Reproducible measured values ensure process reliability and make the sensors an efficient solution for measurement tasks with optimized use of resources.



Integrated 7-segment display



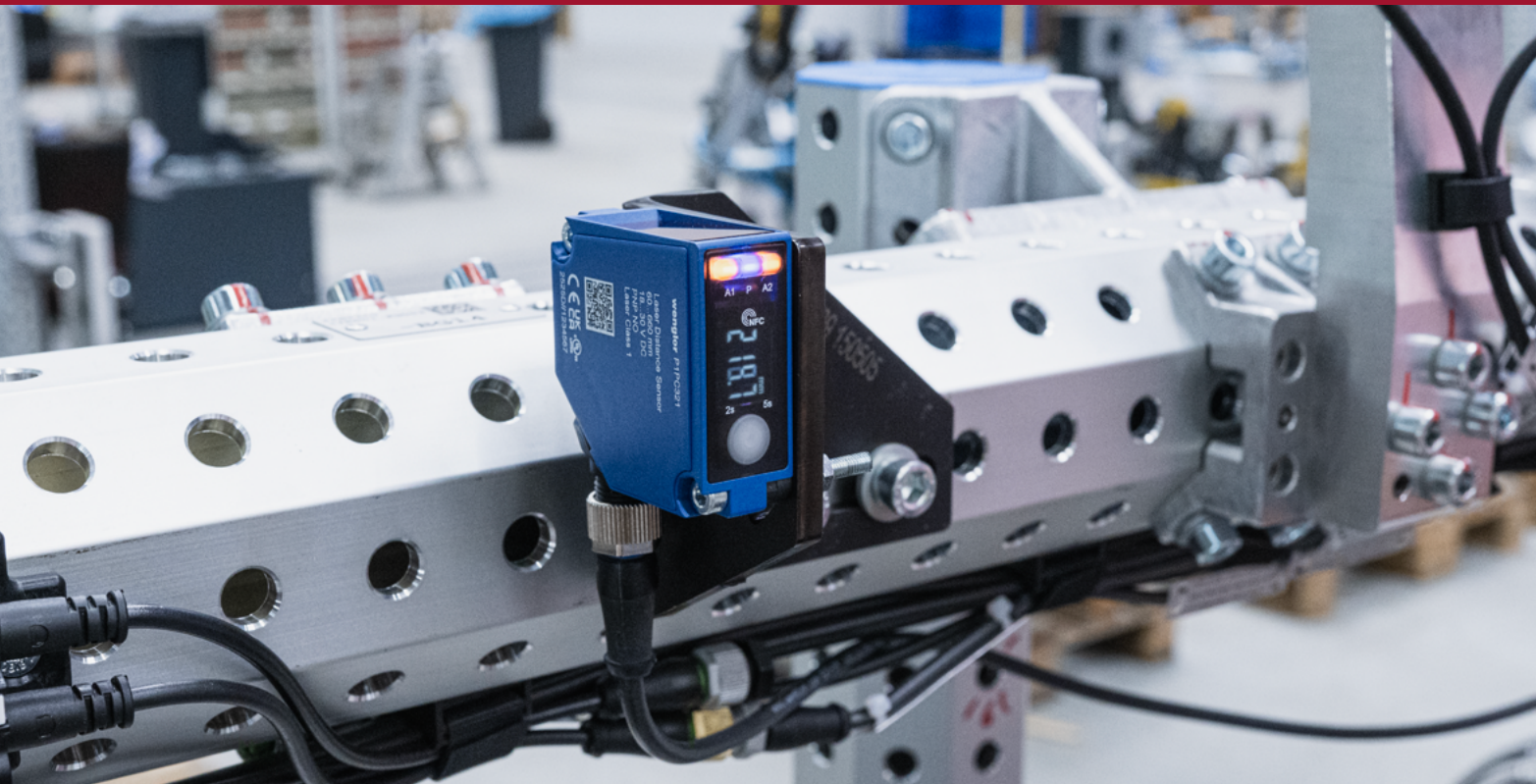
Settings via NFC



Measuring rate up to 2,500/s



Innovative features



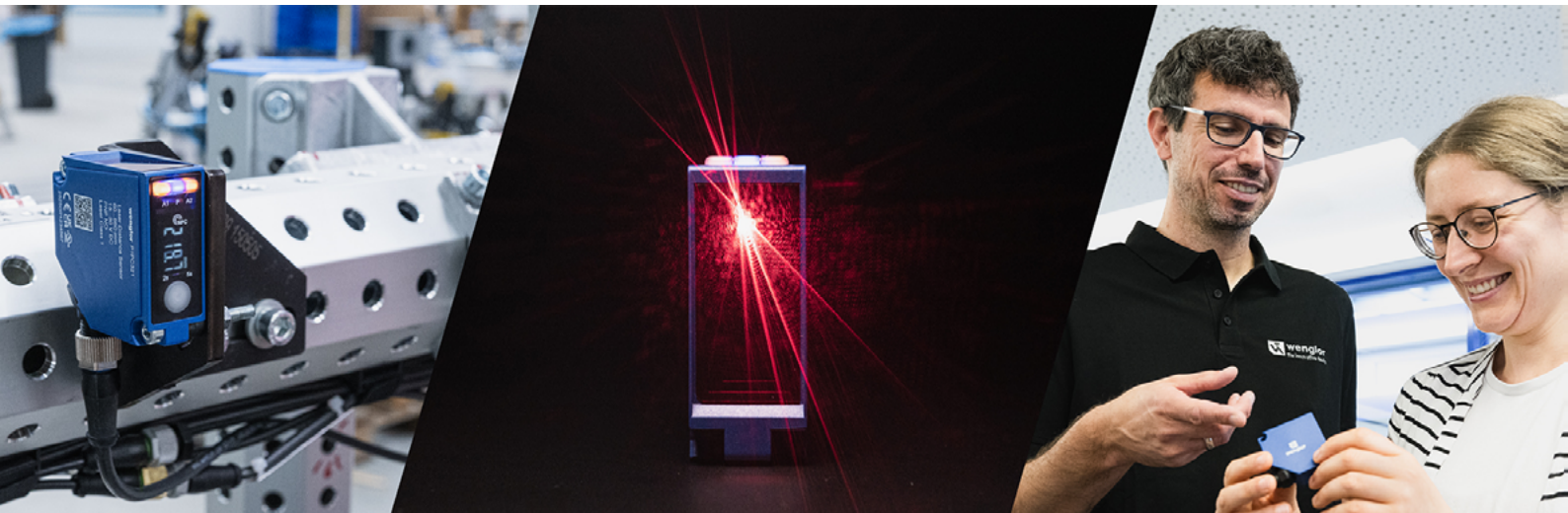
Advantages of the P1PC Sensors

High precision, easy handling and a comprehensive portfolio ensure reliable processes in a wide range of applications. The P1PC series impresses with its compact format, high reliability and flexible integration into machines and systems and is particularly suitable for:

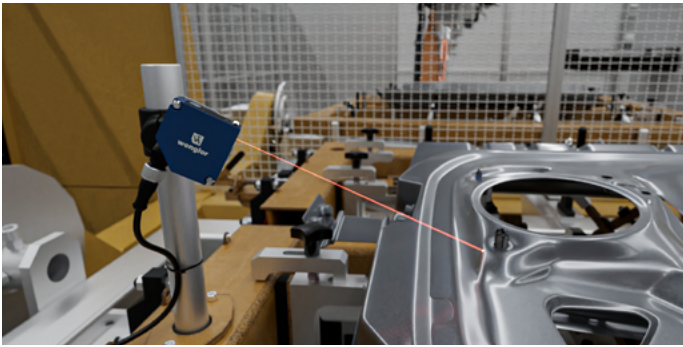
- ✔ **Resource-efficient operation** thanks to compact format and easy integration into series machines
- ✔ **Effortless initial startup** thanks to intuitive parameterization, IO-Link and NFC
- ✔ **Precise and stable detection** of even the smallest differences in varying surfaces and colors
- ✔ **Maximum process reliability** thanks to reliable measured values even at high speeds



“The compact 1P format and stable measured values make the sensor ideal for many applications.”

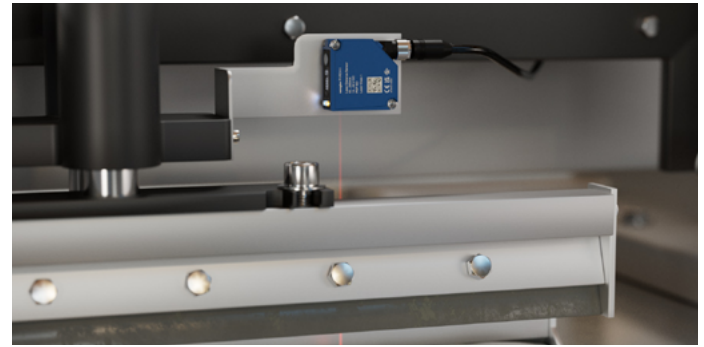


From Standard to Special Application



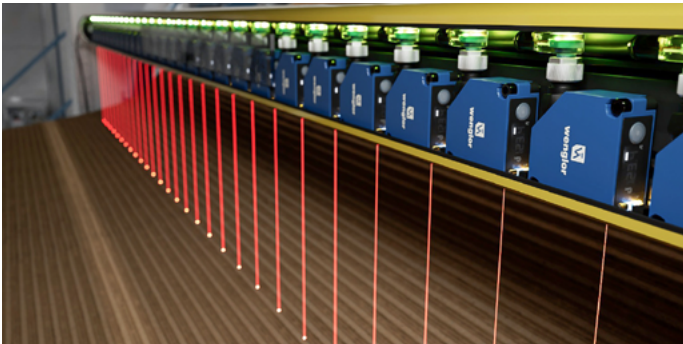
Component Recognition in Insertion Stations

In body construction, laser distance sensors triangulation check the position of sheets before the welding process. Thanks to the window teach mode, they record components within a tolerance window and thus ensure precise positioning and process-reliable welding.



Measurement of Soldering Paste in SMD Soldering Systems

During reflow soldering, doctor blades apply soldering paste to the PCB through a template. Laser distance sensors continuously monitor the paste height and automatically control the replenishment to ensure a smooth material flow.



Corrugated Cardboard Shape Monitoring

In corrugated cardboard production, several triangulation sensors continuously measure the corrugated profile. They ensure consistent quality even at high speeds and reliably identify different colors and surfaces to detect deformations at an early stage.







Position Control of Shiny Metals

When manufacturing miniature circuit breakers, it must be ensured that all components are correctly positioned. The welding process only starts if the detection is correct. The high measuring accuracy on many different materials ensures interference-free detection of shiny parts.

Portfolio at a Glance



Product	Working range	Linearity deviation/ reproducibility 1 sigma	Output
P1PC0	30 to 80 mm 	80 μm / 3 μm	Analog 0...10 V Analog 4...20 mA
P1PC1	40 to 240 mm 	400 μm / 20 μm	Antivalent 2 \times NO contacts Analog 0...10 V Analog 4...20 mA
P1PC2	50 to 350 mm 	600 μm / 30 μm	2 \times NO contacts Analog 0...10 V Analog 4...20 mA
P1PC3	60 to 660 mm 	2400 μm / 100 μm	Antivalent 2 \times NO contacts Analog 0...10 V Analog 4...20 mA

All models are equipped with the IO-Link interface.



More information on the portfolio is available on our website.





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