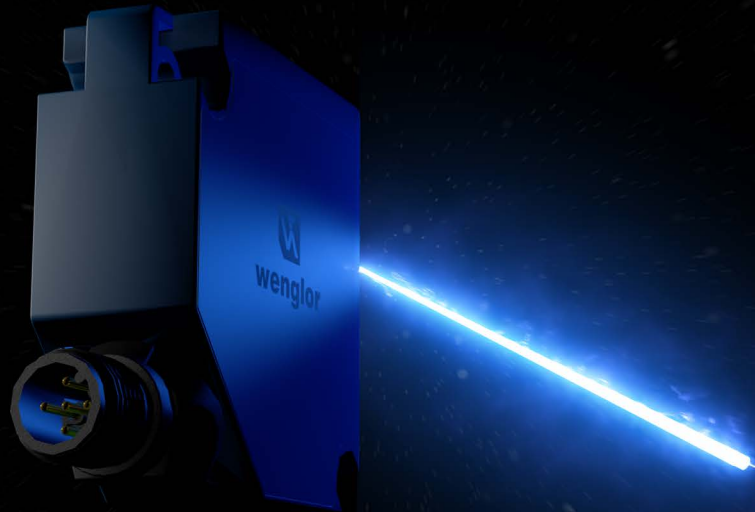




Unmatched in Blue.

Laser Distance Sensors ToF with Blue Light



The World's first ToF Sensor with Blue Laser Light

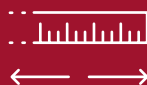
The P1PY21 series redefines the limits of sensor technology: As the **world's first time-of-flight sensors with blue laser**, they deliver precise measurement results even under extreme conditions. Thanks to its shorter wavelength, blue laser light does not penetrate as deeply into the object surface, enabling stable detection **of dark, glossy, organic or (semi-)transparent materials**. This combination of innovation and precision makes wintec with blue light the ideal solution for complex applications in automation technology.



Safe operation according to laser class 2



Intuitive operating concept



Large working range

DS
Technology

Advanced DS technology



You can find these and other features on our website!



Innovative BlueLine Technology

Blue laser light with a wavelength of 445 nm offers reliable detection of demanding surfaces due to its low penetration depth and high remission.

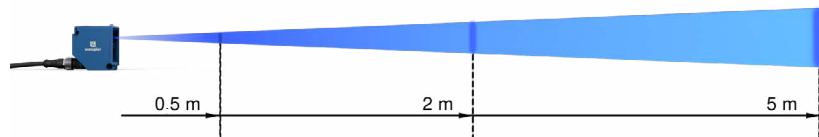
It is particularly suitable for:

- ✓ **Precise measurements** on organic surfaces, polished metals, shiny plastic surfaces or dark paints
- ✓ **Reliable detection** of red glowing objects thanks to insensitivity to high-emitting surfaces
- ✓ **Safe operation** according to laser class 2



Large Laser Light Spot

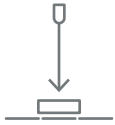
Thanks to its large linear laser light spot (150 × 65 mm at a distance of 5 meters), the laser distance sensor delivers stable measurement results even on uneven surfaces. Test objects with holes or tears are reliably detected, as the wide detection range enables reliable detection even with complex structures. This makes the wintec with blue light particularly suitable for applications where grid structures or irregular surfaces need to be precisely detected.



Working distance	0 m	0.5 m	2 m	5 m
Light spot size	5 × 2.5 mm	15 × 5 mm	60 × 25 mm	150 × 65 mm

Wide Range of Uses

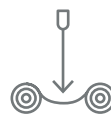
From precise level control in vessels to reliable presence monitoring of objects – laser distance sensors with blue laser light offer versatile solutions for demanding measurement tasks in a wide range of industrial applications.



Presence check



Fill-level monitoring



Sag detection



Stacking height monitoring

Specific Use Cases

Firebed Monitoring in Pellet Kilns

In pellet kilns, the firebed height must be continuously monitored in order to control the heating efficiency optimally. This is where time-of-flight laser distance sensors with blue lasers are used. Thanks to the short-wave blue laser light, the large light spot and a special filter that filters out disturbing radiation, they reliably measure the distance to the firebed and deliver stable measurement results even on the uneven surface of the glowing pellets.





Fill-Level Monitoring of Bulk Material

Injected plastic parts are often transported as bulk material and filled into a material bunker for further processing, separated and fed to the next production step. Continuous level monitoring of the bunker is essential for a smooth production flow. Due to their large linear light spot, time-of-flight laser distance sensors with blue laser deliver reliable results – even on uneven or inclined surfaces.

Product Overview

The wintec portfolio offers a wide selection of laser distance sensors – either in plastic or stainless steel housing, with display, in miniature housing or for measurement on reflectors. With the new blue light variant, the range is now expanded with a solution that delivers precise measurement results even on the most demanding surfaces.

Product	Working range	Property	Output
 P1PY217	to 5,000 mm	Plastic housings: Measuring on object Advanced functions / OLED display	Analog voltage, 1 × PNP NO contact
 P1PY218	to 5,000 mm	Plastic housings: Measuring on object Advanced functions / OLED display	Analog current, 1 × PNP NO contact

All models are equipped with the IO-Link interface.



Further information on the wintec portfolio is available on our website.





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the innovative family



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