



Performance Made Simple.
P1PY2 Time-of-Flight Sensors



ToF Sensors for Performance and Precision



Large Working Range

ToF sensors sense distances of up to 10 meters – regardless of whether the test object is light, dark, matt or glossy. With a reflector, even 100 meters are possible.



Transparent Object Detection

Laser distance sensors with wintec achieve reliable results even with very weak signals and thus impress with the detection of transparent objects.



Outstanding Precision

The fine laser beam detects black and shiny objects as well as the smallest parts from a long distance, even at extreme angles.



Advanced Laser Technology

Fine laser beam with laser class 1. Variants with increased light spot available for uneven surfaces such as holes, tears or grid structures.

wintec DS Technology

Compared with traditional transit time technologies, the wintec generation uses Dynamic Sensitivity (DS) technology. The laser distance sensor emits very short laser light pulses in the nanosecond range, with signals that are statistically evaluated and thus produce the distance value to the object.

- ✓ Unrivaled reception sensitivity
- ✓ Reproducibility as low as 3 mm
- ✓ Highly insensitive to ambient light of up to 100,000 lux
- ✓ Insensitive to interference





Sophisticated Operating Concept for Maximum Efficiency

Time-of-flight sensors with wintec offer maximum reliability and efficiency in object detection and impress with their user-friendly, intuitive operation. The various latest-generation models can be flexibly configured at the touch of a button or via the OLED display. The weCon app also enables mobile adjustment and wireless data transfer to the laser distance sensors, with convenient parameterization via Bluetooth.

1 Bluetooth

The Bluetooth function enables convenient operation via app and mobile phone, which is particularly helpful with hard-to-reach sensors or sensors installed in large numbers.

2 OLED Display

The bright OLED display ensures that the measurement data is clearly legible in various ambient conditions, while the clear menu navigation facilitates parametrization.

3 At the Touch of a Button

The basic function can also be configured by intuitive teach-in, where the teach-in button is pressed for two or five seconds.



Download the free **weCon** app now!

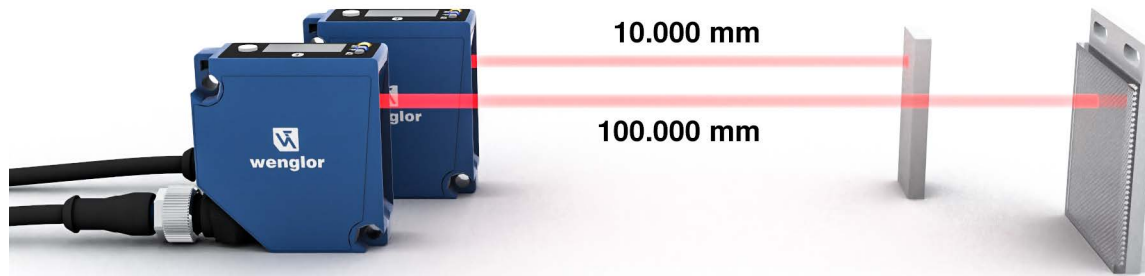


P1PX2 Reflector-Based Variant

By using a reflector, the P1PX2 time-of-flight sensor enables precise measurements over long distances. The sensor only detects the signal returned by the reflector and suppresses other objects. This enables applications with a working range of up to 100 meters to be achieved.

The P1PX2 reflector-based variant is therefore ideal for:

- ✓ Long-range positioning
- ✓ Collision protection in crane installations
- ✓ Positioning of overhead tracks



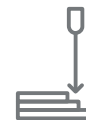
Numerous Usage Options



Speed measurement



Contrast recognition










Jump detection



You can find all the details and even more about the P1PX2 reflector-based variant on our website.



Product Overview

Product	Working range	Property	Output
 P1KY0xx	to 1,000 mm	Miniature plastic housing Measuring on object Basic functions/teach-in	2 × NO contacts
 P2KY0xx	to 1,000 mm	Miniature stainless steel housing Measuring on object Basic functions/teach-in ECOLAB/IP69K	2 × NO contacts
 P1PY13x	to 5,000 mm	Plastic housings Measuring on object Large light spot/teach-in	2 × NO contacts
 P1PY1xx	to 10,000 mm	Plastic housings Measuring on object Basic functions/teach-in	Analog/ 2 × NO contacts
 P2PY1xx	to 10,000 mm	Stainless steel housing Measuring on object Basic functions/teach-in ECOLAB/IP69K	Analog/ 2 × NO contacts
 P1PY2xx	to 10,000 mm	Plastic housings Measuring on object Advanced functions/OLED display	Analog/ 2 × NO contacts
 P1PX2xx	to 100,000 mm	Plastic housings Measuring on reflector Advanced functions/OLED display/Bluetooth	2 × NO contacts

All models are equipped with the IO-Link interface.



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