

# Light curtains for **measurement tasks**



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Light curtains for measurement tasks by wenglor operate according to the barrier principle. The transmitter and receiver are integrated in separate housings and are mounted so that the infrared light rays emitted by the transmitter meet the receiving optics.



## 2 in 1: Object detection and measurement

Two digital switching outputs and an integrated analog output allow for simultaneous detection and measurement of objects: The switching outputs react depending on how many and which rays are interrupted. An analog output reads out corresponding voltage or current.

## Commissioning made easy

The menu-driven graphic display enables intuitive and rapid setup of the light curtain. An external programming unit is not required. Alternatively, the setup can conveniently be done using the IO-link interface.

Alignment of the light curtain is just as easy: A bar graph on the graphic display makes intermittent rays visible, making commissioning much easier.

## Versatile applications

- Object Measurement
- Height control
- Position control
- Web edge control
- Height measurement
- Detecting extremely small parts
- Sag control
- Area control

## Additional advantages

- IO-link allows for quick, extended diagnosis
- No parallel wiring thanks to IO-link
- Transmitter function test via a test input
- Integrated evaluation unit

## All-round light curtains: 360° switching status display

The illuminated end cap for switching status display is clearly visible around 360°. Like this, diagnosis is possible, even if the control panel is out of sight.



Order number	OSEB152Z0103 OEEB152U0135	OSEB302Z0103 OEEB302U0135	OSEB452Z0103 OEEB452U0135	OSEB602Z0103 OEEB602U0135	OSEB752Z0103 OEEB752U0135	OSEB902Z0103 OEEB902U0135	OSEB103Z0103 OEEB103U0135	OSEB123Z0103 OEEB123U0135	OSEB133Z0103 OEEB133U0135	OSEB153Z0103 OEEB153U0135	OSEB163Z0103 OEEB163U0135	OSEB183Z0103 OEEB183U0135
Measurement field height:	150 mm	300 mm	450 mm	600 mm	750 mm	900 mm	1050 mm	1200 mm	1350 mm	1500 mm	1650 mm	1800 mm
Switching frequency	69 Hz	41 Hz	29 Hz	22 Hz	18 Hz	16 Hz	13 Hz	12 Hz	11 Hz	10 Hz	9 Hz	8 Hz
Response time	7 ms	12 ms	17 ms	22 ms	27 ms	32 ms	37 ms	42 ms	47 ms	52 ms	57 ms	62 ms
Range	3000 mm											
Beam distance	30 mm											

## High-resolution light- curtains: Recognition of small objects

With their precise resolution of only 2 mm, the high-resolution light curtains by Wenglor recognize even the smallest and very flat objects.



Order number	OSEI501Z0103 OEEI501U0135	OSEI102Z0103 OEEI102U0135	OSEI152Z0103 OEEI152U0135	OSEI202Z0103 OEEI202U0135
Measurement field height:	50 mm	100 mm	150 mm	200 mm
Switching frequency	150 Hz	85 Hz	60 Hz	45 Hz
Response time	3 ms	6 ms	8 ms	11 ms
Range	2000 mm			
Beam distance	2 mm			

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