



Good Thinking, Good Future

Ultra-Compact Laser Distance Sensor

TOF-DL Series

*FASTUS is a product brand of Optex FA.



Easily Measure Height and Distance
World's Smallest TOF Sensor

Measurement
range

0.25 to 2.5 m

The world's smallest
TOF sensor

Built-in digital display
for simple setup

OPTEX FA CO., LTD.

Measure from up to 2.5 m away.

“Visualize” distances with the TOF-DL compact sensor.



The FASTUS TOF-DL Series is the world's smallest TOF sensor*1. This ultra-compact laser distance sensor is capable of measuring at distances of up to 2.5 m.

With a built-in digital display, configuring settings is simple. Notably, the TOF-DL Series is most useful with applications requiring height and target distance control, such as level and position measurements and loop control at a manufacturing site.

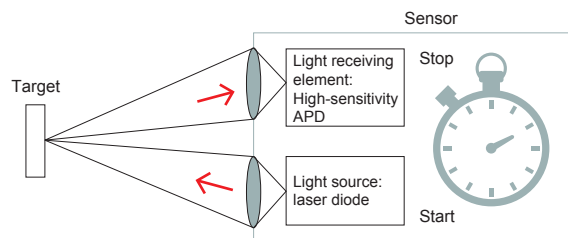
World's smallest*1

Size: 17 × 32.8 × 44.4 (W × D × H) mm

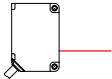
*1 Optex FA examination performed October 2016.

TOF (Time Of Flight) method

The TOF method measures the time it takes a pulse-emitted laser to hit a target and return, and the measurement is then converted into distance. With strong resistance to influences from the target's surface conditions, this method is capable of producing stable detection.



Lineup

Type	Measurement range	Laser class (JIS/IEC/FDA)	Interface	Model Pig tail types are shown in parentheses
 TOF	0.25 to 2.5 m	Class 1	Analog output Control output External input	TOF-DL250A (TOF-DL250AM12)
			Control output × 3 External input	TOF-DL250T (TOF-DL250TM12)

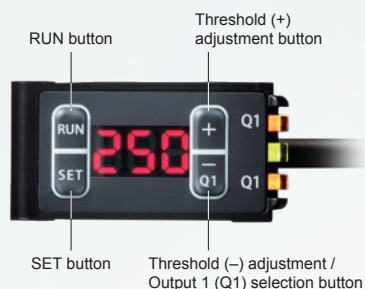
Easy-to-See Digital Display

With its ultra-compact size, the TOF-DL Series is equipped with a three-digit, easy-to-see digital display.

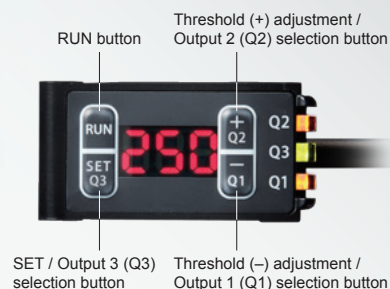
The display allows users to check the distance showing numerical values.

This digital display also makes teaching adjustments easy.

■ Analog output type



■ Three-output type



Easy-to-See Indicators and Stability Output

The indicators used on the TOF-DL Series allow for easy visibility from any angle.

In addition, users are able to switch output 1 to Stability Output.

Stability Output turns ON (Central indicator = Green) when measuring is stable and turns OFF (Central indicator = Red) when measurement is not possible.

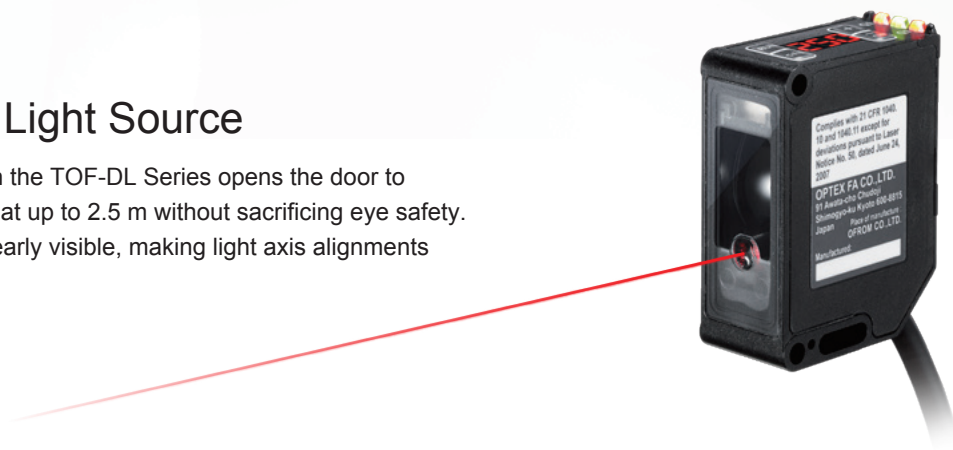


Indicators visible from any direction

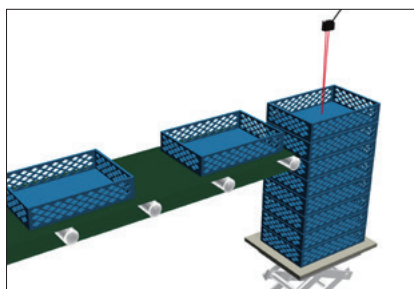
Class 1 Laser Light Source

The Class 1 laser used in the TOF-DL Series opens the door to long-distance measuring at up to 2.5 m without sacrificing eye safety.

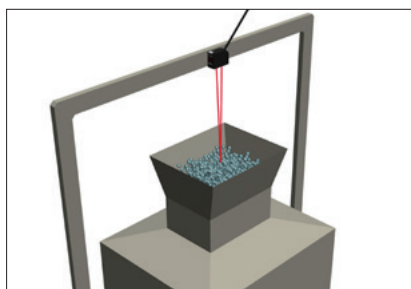
In addition, the spot is clearly visible, making light axis alignments easy.



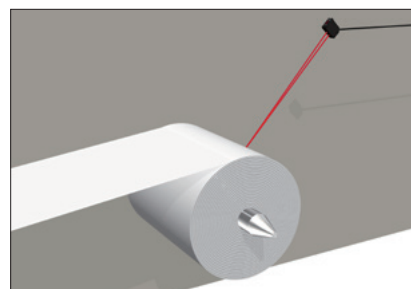
Applications



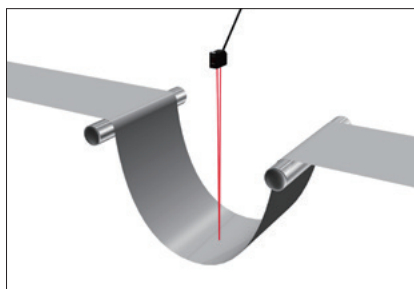
Lifting platform lift amount measurement



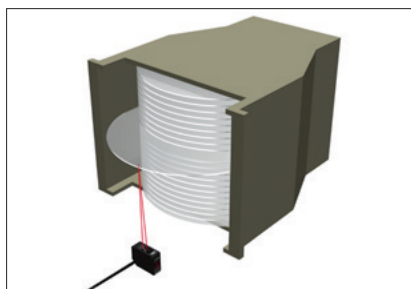
Measurement of material amount remaining in tank



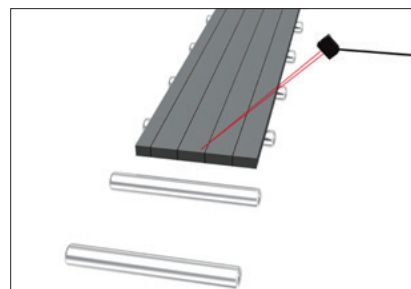
Measurement of remaining non-woven fabric amount



Sheet material loop control



Wafer protrusion detection in cassettes



Long-distance detection of building material

