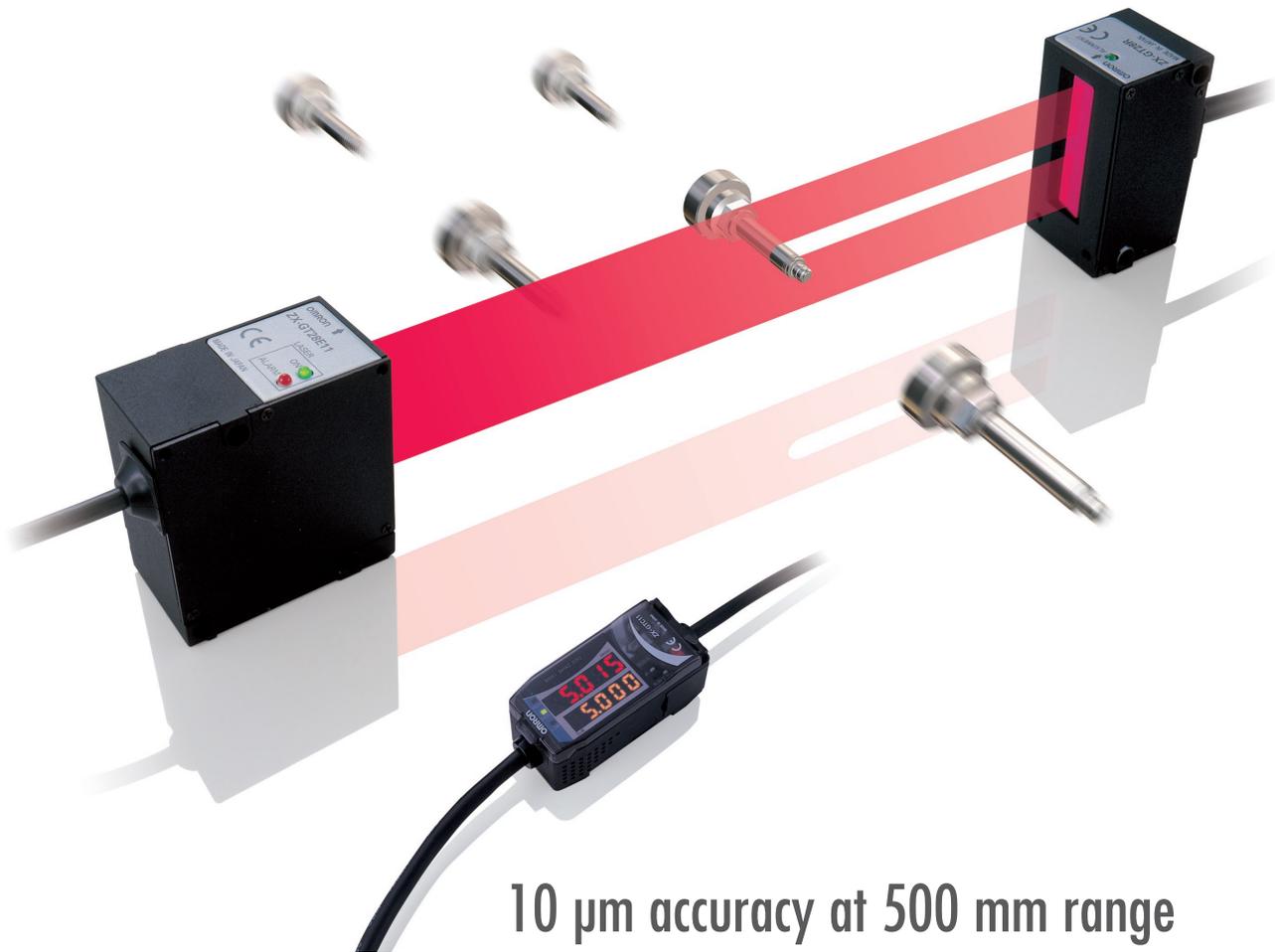


OMRON

Wide Laser Beam CCD Measurement Sensor



10 μ m accuracy at 500 mm range

- » Seven times faster than any sensor in its class
- » Ultra-compact sensor fits between equipment
- » Easy set up
- » Precise measurement without contact

Automation...simple...powerful.

MEASUREMENT SENSORS

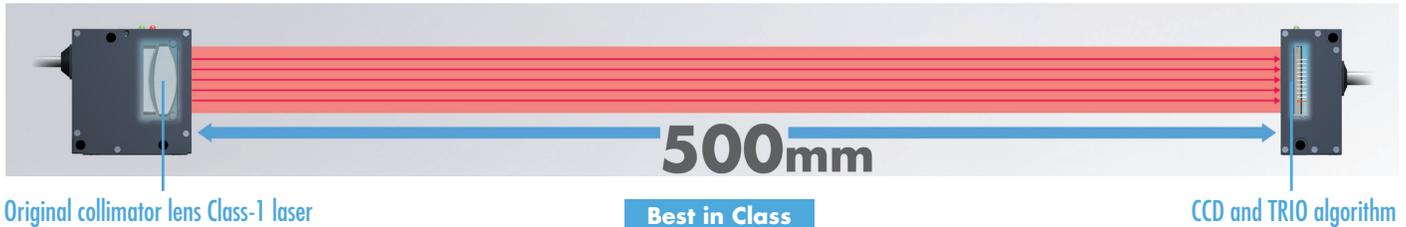
New Standards for Dimension Measurements

As the only sensor in its class with the ability to measure to an accuracy of 10 microns without contact, Omron's ZX-GT Smart Sensor sets new standards for length and width measurements.

Key Features

Measurable at any position

ZX-GT eliminates positioning errors with its ability to take consistent, precise measurements within a 500 mm distance.

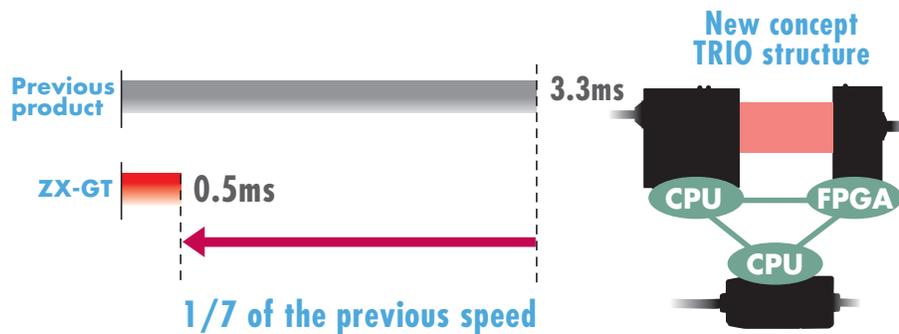


Highly precise

ZX-GT is the only sensor with the ability to measure and locate position to an accuracy of 10 μm without contact, including the ability to measure difficult surfaces such as glass and mirror surfaces.

Fastest sensor in its class

ZX-GT reduces measurement time by using Omron's unique TRIO algorithm to take 2000 high-speed samples per second—that's 7 times faster than previously possible.



Ultra-compact

Small enough to fit in the palm of your hand, the ZX-GT controller and sensor head are the ideal size for integration into various equipment where space is tight.



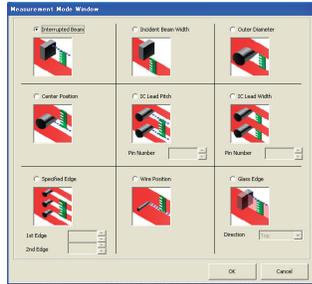
Compact sensor head that can be set in the gap between equipment.



Its compact controller is a continuation of the ZX series.

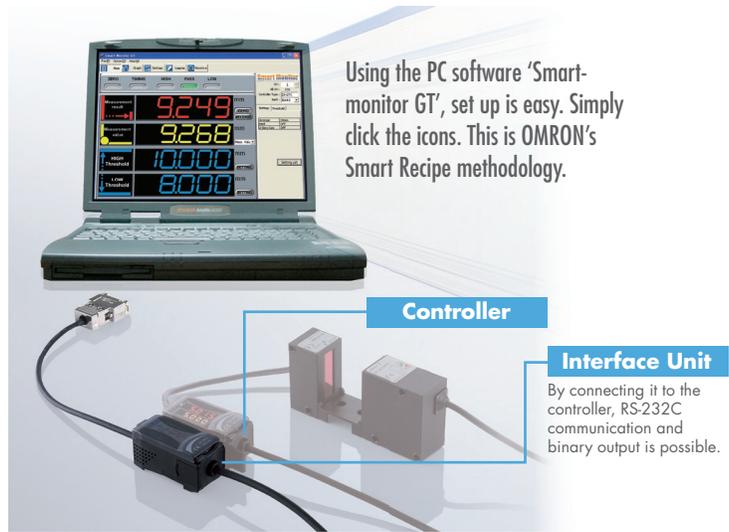
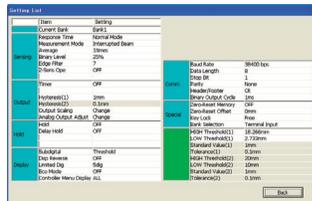
Simple set-up

ZX-GT uses PC software for easy set-up. Simply click icons to set, change, and save settings.



Easy to set-up

Different features are organized by tabs, to allow the user to understand and change the settings easily. Measurement conditions can be saved on PCs.



Using the PC software 'Smart-monitor GT', set up is easy. Simply click the icons. This is OMRON's Smart Recipe methodology.

Controller

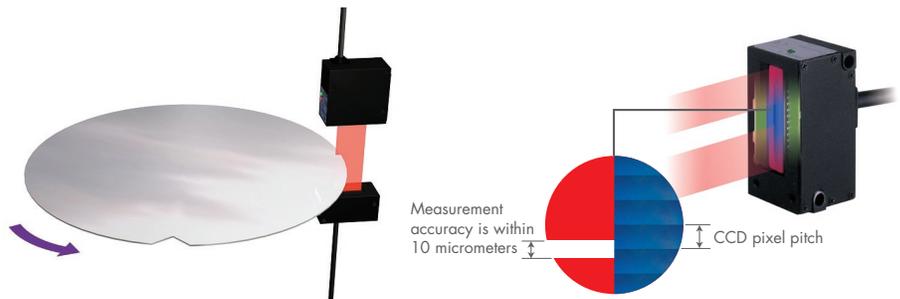
Interface Unit

By connecting it to the controller, RS-232C communication and binary output is possible.

Advanced Laser Technology

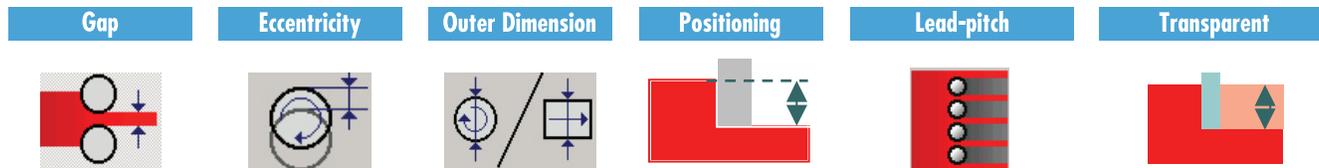
Dedicated glass-detection function.

Accurately detects work that allows light to pass-through such as glass targets or that reflect light such as mirror-finished surfaces.



Even effective with mirror finished surfaces.

Wide-range measurement types for a variety of applications



Target Applications

Industry Applications

Automotive Industry	Flat Panel Display industry	Semiconductor Industry	Electronic Components Industry
<ul style="list-style-type: none"> Diameter inspection before forging process Diameter inspection for large pipe 	<ul style="list-style-type: none"> Alignment of glass substrate Stable measurement for transparent object 	<ul style="list-style-type: none"> Notch position detection of glass wafer 	<ul style="list-style-type: none"> Width and spacing inspection of lead frame Auto detection for lead frame defect

Sensors

Appearance	Optical system	Measuring width	Sensing distance	Resolution	Output Type	Model
Separate type 	Through-beam	28mm	0 to 500mm	10µm	NPN	ZX-GT28S11
					PNP	ZX-GT28S41
Integrated type 			NPN		ZX-GT2840S11	
			PNP		ZX-GT2840S41	

Controller

Appearance	Power Supply	Output Type	Model
	DC	NPN	ZX-GTC11
		PNP	ZX-GTC41

Accessories (Order Separately)

Set of Interface Unit and Setup software PCs

Output Type	Model
NPN	ZX-GIF11A
PNP	ZX-GIF41A

Setup software PCs

Name	Model
Smart Monitor GT	ZX-GSW11

Interface Unit (RS-232C/Binary Unit)

Appearance	Power Supply	Output Type	Model
	DC	NPN	ZX-GIF11
		PNP	ZX-GIF41

Calculating Units

Appearance	Model
	ZX-CAL2

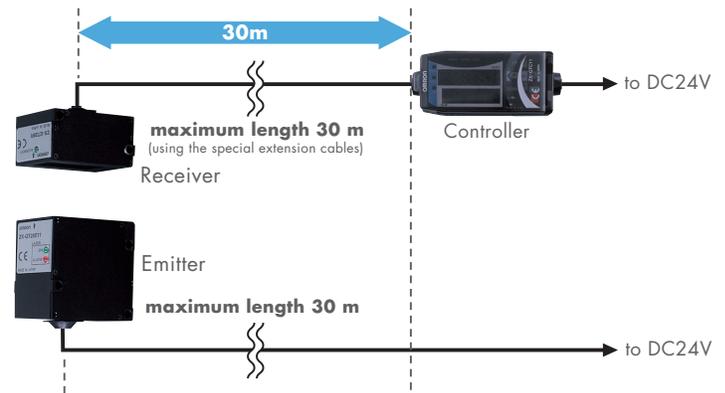
Receiver-Controller Extension Cable

Cable Length	Model		Quantity
	Standard Cable	Robotic Cable	
1m	ZX-XGC1A	ZX-XGC1R	1
2m	ZX-XGC2A	ZX-XGC2R	
5m	ZX-XGC5A	ZX-XGC5R	
8m	ZX-XGC8A	ZX-XGC8R	
20m	ZX-XGC20A	ZX-XGC20R	

Up to two extension cables can be connected. However be sure to limit the total extension cable length between the receiver and the Controller to 30 meters (including the receiver cable).

30m cable extension

The emitter and receiver do not need to be connected to each other. Each cable can be extended up to 30 m. It is perfectly suited for installation into large-scale production line.



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