

Smart Sensor (Wide Laser Beam CCD Measurement Sensor) ZX-GT

CSM_ZX-GT_DS_E_1_2

Achieves Micron Accuracy with Longest-in-Class Sensing Distance

- Maximum sensing distance of 500 mm and measuring width of 28 mm provide a wide area.
- 10- μ m accuracy anywhere within the area, even though the sensor uses a non-contact method.
- Stable detection of even transparent glass and mirror surfaces.
- Compact sensor and controller provide minimal installation space requirements.



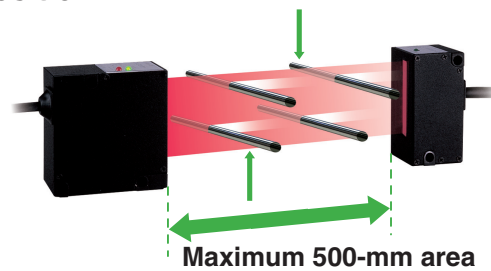
For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Refer to *Safety Precautions* on page 8.

Features

Maximum 500-mm area Measurable at any position

Measurements can be consistently taken within a wide area, whatever stage the work is at or whichever way it is inserted. It can now be set to positions without interference from the work feed and without limitations of size of work area.



Accurate! 10- μ m by non-contact method

ZX-GT is the only sensor with the ability to measure and locate position to an accuracy of 10 μ m without contact. Unlike conventional through-beam laser sensors, the ZX-GT's unique algorithm has the flexibility to meet a wide variety of applications, including the ability to accurately measure glass and mirror surfaces.

Small! Compact like palm-top



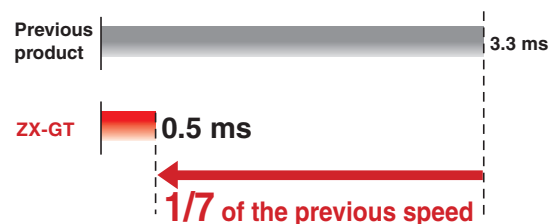
Compact sensor head that can be set in the gap between equipment.



Its compact controller is a continuation of the ZX series.

New concept "TRIO" 1/7 in speed compared with conventional products

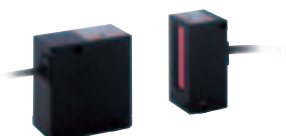

With OMRON'S unique TRIO (Triple parallel processing) algorithm, it is possible to take 2000 high-speed samples per second, 7 times greater than previously possible, greatly reducing tact time.




Ordering Information

Sensors

Sensor Head (Dimensions → page 8)

Appearance	Optical system	Measuring width	Sensing distance	Resolution	Output type	Model
Emitter and receiver, separate type 	Through-beam	28 mm	0 to 500 mm	10 μm	NPN	ZX-GT28S11
			40 mm		PNP	ZX-GT28S41
Emitter and receiver, integrated type 		NPN			ZX-GT2840S11	
		PNP	ZX-GT2840S41			

Controller (Dimensions → page 8)


Appearance	Power supply	Output type	Model
	DC	NPN	ZX-GTC11
		PNP	ZX-GTC41

Accessories (Order Separately) These are not included with the sensor and controller, so order these accessories separately if necessary.

Set: Interface Unit (RS-232C/Binary output) and PC Setup Software

Output configuration	Model
NPN	ZX-GIF11A
PNP	ZX-GIF41A


Interface Unit (RS-232C/Binary output) (Dimensions → page 8)

Appearance	Power supply	Output type	Model
	DC	NPN	ZX-GIF11
		PNP	ZX-GIF41

Setup software PCs

Name	Model
Smart Monitor GT	ZX-GSW11

Calculating Units (Dimensions → page 8)

Appearance	Model
	ZX-CAL2

Receiver-Controller Extension Cable (Dimensions → page 8)

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

Note: 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).