

E3Z-LT/LR/LL

CSM_E3Z-LT_LR_LL_DS_E_6_8

Compact and Reliable Laser Photoelectric Sensor



- Safety and reliability with laser class 1 (JIS and IEC).
- Product lineup includes models with distance setting without influence of color.
- Maximum ambient operating temperature of 55°C and water-proof construction in E3Z class.

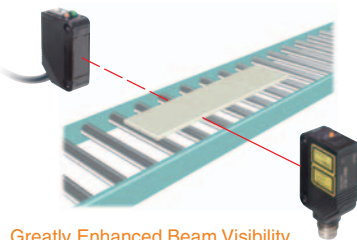


Be sure to read *Safety Precautions* on page 9.

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

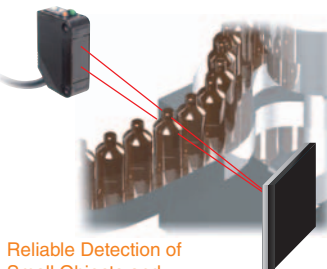
Applications

Detect the sides of large tiles.



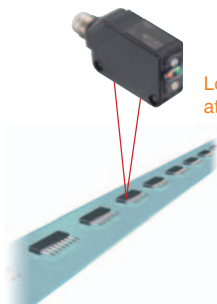
Greatly Enhanced Beam Visibility
for Easier Optical Axis Adjustment of Sensors

Count bottles.



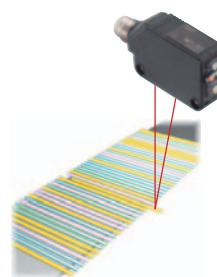
Reliable Detection of
Small Objects and
Narrow Gaps with the Small Spot

Detect chip components on tape.



Long-distance Sensing
at 300 mm (White Paper)

Detect protruding straws.

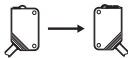
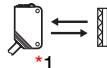
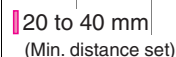
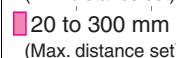
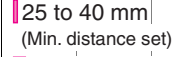
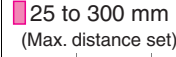


A Low Black/White Error for
Applications with Mixed Colors

Ordering Information

Sensors (Refer to Dimensions on page 11.)

 Red light

Sensing method	Appearance	Connection method	Response time	Sensing distance	Model	
					NPN output	PNP output
Through-beam (Emitter + Receiver)		Pre-wired (2 m)	1 ms	 60 m	E3Z-LT61 2M Emitter E3Z-LT61-L 2M Receiver E3Z-LT61-D 2M	E3Z-LT81 2M Emitter E3Z-LT81-L 2M Receiver E3Z-LT81-D 2M
		Connector (M8, 4 pins)			E3Z-LT66 Emitter E3Z-LT66-L Receiver E3Z-LT66-D	E3Z-LT86 Emitter E3Z-LT86-L Receiver E3Z-LT86-D
Retro-reflective with MSR function	 *1	Pre-wired (2 m)		 15 m (300 mm) (Using E39-R1)	E3Z-LR61 2M	E3Z-LR81 2M
		Connector (M8, 4 pins)		7 m (200 mm) (Using E39-R12)		
				7 m (200 mm) (Using E39-R6)		
Distance-settable (BGS Models)		Pre-wired (2 m)	0.5 ms	 20 to 40 mm (Min. distance set)	E3Z-LL61 2M	E3Z-LL81 2M
		Connector (M8, 4 pins)		 20 to 300 mm (Max. distance set)	E3Z-LL66	E3Z-LL86
		Pre-wired (2 m)		 25 to 40 mm (Min. distance set)	E3Z-LL63 2M	E3Z-LL83 2M
		Connector (M8, 4 pins)		 25 to 300 mm (Max. distance set)	E3Z-LL68	E3Z-LL88

*1. The Reflector is sold separately. Select the Reflector model most suited to the application.

*2. Values in parentheses indicate the minimum required distance between the Sensor and Reflector.

Accessories

Slits (A Slit is not provided with a Through-beam Sensor. Order a Slit separately if required.) (Refer to Dimensions on page 14.)

Slit width	Sensing distance	Minimum detectable object (reference value)	Model	Contents
0.5 mm dia.	3 m	0.1 mm dia.	E39-S65A	One set (contains Slits for both the Emitter and Receiver)

Reflectors (A Reflector is required for each Retro-reflective Sensor: A Reflector is not provided with the Sensor. Be sure to order a Reflector.)
(Refer to Dimensions on page 14.)

Name	Sensing distance		Model	Remarks
	Rated value	Reference value		
Reflector	---	15 m (300 mm)	E39-R1	- Retro-reflective models are not provided with Reflectors. - Separate the Sensor and the Reflector by at least the distance given in parentheses. - The MSR function is enabled.
	7 m (200 mm)	---	E39-R12	
	---	7 m (200 mm)	E39-R6	

Note: If you use the Reflector at any distance other than the rated distance, make sure that the stability indicator lights properly when you install the Sensor.