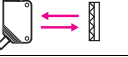
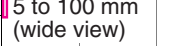
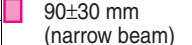
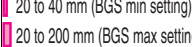
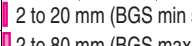
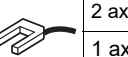
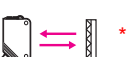


Ordering Information

Sensors [Refer to Dimensions on page 14.]

 Red light
  Infrared light

Sensing method	Appearance	Connection method	Sensing distance	Model	
				NPN output	PNP output
Through-beam (Emitter + Receiver) *3		Pre-wired (2 m)	 15 m	E3Z-T61 2M *4 *5 Emitter E3Z-T61-L 2M Receiver E3Z-T61-D 2M	E3Z-T81 2M *4 *5 Emitter E3Z-T81-L 2M Receiver E3Z-T81-D 2M
		Standard M8 connector		E3Z-T66 Emitter E3Z-T66-L Receiver E3Z-T66-D	E3Z-T86 Emitter E3Z-T86-L Receiver E3Z-T86-D
		Pre-wired (2 m)	 10 m	E3Z-T61A 2M *4 Emitter E3Z-T61-A-L 2M Receiver E3Z-T61-A-D 2M	E3Z-T81A 2M *4 Emitter E3Z-T81-A-L 2M Receiver E3Z-T81-A-D 2M
		Standard M8 connector		E3Z-T66A Emitter E3Z-T66-A-L Receiver E3Z-T66-A-D	E3Z-T86A Emitter E3Z-T86-A-L Receiver E3Z-T86-A-D
		Pre-wired (2 m)	 30m	E3Z-T62 2M *4 Emitter E3Z-T62-L 2M Receiver E3Z-T62-D 2M	E3Z-T82 2M Emitter E3Z-T82-L 2M Receiver E3Z-T82-D 2M
		Standard M8 connector		E3Z-T67 Emitter E3Z-T67-L Receiver E3Z-T67-D	E3Z-T87 Emitter E3Z-T87-L Receiver E3Z-T87-D
Retro-reflective with MSR function		Pre-wired (2 m)	 4 m *2 (100 mm)	E3Z-R61 2M *4 *5	E3Z-R81 2M *4 *5
		Standard M8 connector		E3Z-R66	E3Z-R86
Diffuse-reflective		Pre-wired (2 m)	 5 to 100 mm (wide view)	E3Z-D61 2M *4	E3Z-D81 2M *4 *5
		Standard M8 connector		E3Z-D66	E3Z-D86
		Pre-wired (2 m)	 1 m	E3Z-D62 2M *4 *5	E3Z-D82 2M *4 *5
		Standard M8 connector		E3Z-D67	E3Z-D87
		Pre-wired (2 m)	 90±30 mm (narrow beam)	E3Z-L61 2M *4 *5	E3Z-L81 2M *4 *5
		Standard M8 connector		E3Z-L66	E3Z-L86
Distance-settable Refer to E3Z-LS .		Pre-wired (2 m)	 20 to 40 mm (BGS min setting) 20 to 200 mm (BGS max setting)	E3Z-LS61 2M *4	E3Z-LS81 2M *4
		Standard M8 Connector		E3Z-LS66	E3Z-LS86
		Pre-wired (2 m)	 2 to 20 mm (BGS min setting) 2 to 80 mm (BGS max setting)	E3Z-LS63 2M	E3Z-LS83 2M *5
		Standard M8 connector		E3Z-LS68	E3Z-LS88
Slit-type Through-beam Refer to E3Z-G .		1 axis	 25 mm	E3Z-G61 2M *4 *5	E3Z-G81 2M *4 *5
		2 axes		E3Z-G62 2M *4	E3Z-G82 2M *4
		1 axis		E3Z-G61-M3J	E3Z-G81-M3J
		2 axes		E3Z-G62-M3J	E3Z-G82-M3J
Limited-reflective for transparent glasses		Pre-wired (2 m)	 30±20 mm	E3Z-L63 2M	E3Z-L83 2M
		Standard M8 connector		E3Z-L68	E3Z-L88
Retro-reflective with- out MSR function for clear, plastic bottles		Pre-wired (2 m)	 500 mm (80 mm)	E3Z-B61 2M	E3Z-B81 2M *4
		Standard M8 connector		E3Z-B66	E3Z-B86
		Pre-wired (2 m)	 2 m (500 mm)	E3Z-B62 2M *4	E3Z-B82 2M *4
		Standard M8 connector		E3Z-B67	E3Z-B87

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

*2. The sensing distance specified is possible when the E39-R1S is used. Values in parentheses indicate the minimum required distance between the Sensor and Reflector.

*3. Through-beam Sensors are normally sold in sets that include both the Emitter and Receiver.

*4. M12 Standard Pre-wired Connector Models are also available.

When ordering, add "-M1J 0.3M" to the end of the model number (e.g., E3Z-T61-M1J 0.3M).

The cable is 0.3 m long. The applicable Sensor I/O Connector is the XS2 Series. For details, refer to the XS2 information available on the OMRON website.

*5. M12 Pre-wired Smartclick Connector Models are also available.

When ordering, add "-M1TJ 0.3M" to the end of the model number (e.g., E3Z-T61-M1TJ 0.3M).

The cable is 0.3 m long. The applicable Sensor I/O Connector is the XS5 Series. For details, refer to the XS5 information available on the OMRON website.

Oil-resistive Sensors [Refer to Dimensions on page 14.]

Red light Infrared light

Sensing method	Appearance	Connection method	Sensing distance	Model	
				NPN output	PNP output
Through-beam (Emitter + Receiver) *3		Pre-wired (2 m)		E3Z-T61K 2M *4 Emitter E3Z-T61K-L 2M Receiver E3Z-T61K-D 2M	E3Z-T81K 2M *4 Emitter E3Z-T81K-L 2M Receiver E3Z-T81K-D 2M
		Pre-wired M8 connector		E3Z-T61K-M3J 0.3M Emitter E3Z-T61K-L-M3J 2M Receiver E3Z-T61K-D-M3J 2M	E3Z-T81K-M3J 0.3M Emitter E3Z-T81K-L-M3J 2M Receiver E3Z-T81K-D-M3J 2M
Retro-reflective with MSR function		Pre-wired (2 m)		E3Z-R61K 2M *4	E3Z-R81K 2M
		Pre-wired M8 connector		E3Z-R61K-M3J 0.3M	E3Z-R81K-M3J 0.3M
Diffuse-reflective		Pre-wired (2 m)		E3Z-D61K 2M *4	E3Z-D81K 2M
		Pre-wired M8 connector		E3Z-D61K-M3J 0.3M	E3Z-D81K-M3J 0.3M
		Pre-wired (2 m)		E3Z-D62K 2M *4	E3Z-D82K 2M
		Pre-wired M8 connector		E3Z-D62K-M3J 0.3M	E3Z-D82K-M3J 0.3M

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

*2. The sensing distance specified is possible when the E39-R1S is used. Values in parentheses indicate the minimum required distance between the Sensor and Reflector.

*3. Through-beam Sensors are normally sold in sets that include both the Emitter and Receiver.

*4. M12 Standard Pre-wired Connector Models are also available.

When ordering, add "-M1J 0.3M" to the end of the model number (e.g., E3Z-T61-M1J 0.3M).

The cable is 0.3 m long. The applicable Sensor I/O Connector is the XS2 Series. For details, refer to the XS2 information available on the OMRON website.

Accessories (Order Separately)

Slit (A Slit is not provided with Through-beam Sensors) Order a Slit separately if required. [Refer to Dimensions on page 16.]

Slit width	Sensing distance		Minimum detectable object (Reference value)	Model	Contents
	E3Z-T□□	E3Z-T□□A			
0.5-mm dia.	50 mm	35 mm	0.2-mm dia.	E39-S65A	One set (contains Slits for both the Emitter and Receiver)
1-mm dia.	200 mm	150 mm	0.4-mm dia.	E39-S65B	
2-mm dia.	800 mm	550 mm	0.7-mm dia.	E39-S65C	
0.5 × 10 mm	1 m	700 mm	0.2-mm dia.	E39-S65D	
1 × 10 mm	2.2 m	1.5 m	0.5-mm dia.	E39-S65E	
2 × 10 mm	5 m	3.5 m	0.8-mm dia.	E39-S65F	

Reflectors (Reflector required for Retroreflective Sensors) A Reflector is not provided with the Sensor. Be sure to order a Reflector separately.
[Refer to Dimensions on E39-L/E39-S/E39-R]

Name	Sensing distance *					Model	Quantity	Remarks
	E3Z-R		E3Z-R□K	E3Z-B□1/-B□6	E3Z-B□2/-B□7			
	Rated value (sensing distance of 15 m)	Reference value (sensing distance of 10 m)	Rated value	Rated value	Rated value			
Reflector	3 m (100 mm)	---	2 m (100 mm)	---	---	E39-R1	1	• Retro-reflective models are not provided with Reflectors. • The MSR function is enabled.
	4 m (100 mm)	---	3 m (150 mm)	500 mm (80 mm)	2 m (500 mm)	E39-R1S	1	
	---	5 m (100 mm)	---	---	---	E39-R2	1	
	---	2.5 m (100 mm)	---	---	---	E39-R9	1	
	---	3.5 m (100 mm)	---	---	---	E39-R10	1	
Fog Preventive Coating	---	3 m (100 mm)	---	500 mm (80 mm)	2 m (500 mm)	E39-R1K	1	
Small Reflector	---	1.5 m (50 mm)	---	---	---	E39-R3	1	
Tape Reflector	---	700 mm (150 mm)	---	---	---	E39-RS1	1	
	---	1.1 m (150 mm)	---	---	---	E39-RS2	1	
	---	1.4 m (150 mm)	---	---	---	E39-RS3	1	

Note: 1. 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.

2. For details, refer to Reflectors on the E39-L/E39-S/E39-R information available on the OMRON website.

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

Mutual Interference Protection Filter A Filter is not provided with the Sensor (for the through-beam E3Z-T□□A). Order a Filter separately if required.

Sensing distance	Appearance/Dimensions	Model	Quantity	Remarks
3 m		E39-E11	Two sets each for the Emitter and Receiver (total of four pieces)	Can be used with the E3Z-T□□A Through-beam models. The arrow indicates the direction of polarized light. Mutual interference can be prevented by altering the direction of polarized light from or to adjacent Emitters and Receivers.

Note: The polarization directions of the Filters are offset by 90° to prevent interference. When you install the Emitter and Receiver, install them at the same angle to maintain this offset.