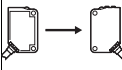


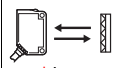

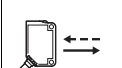


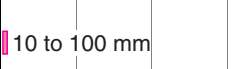
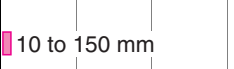
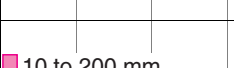


## Ordering Information

### Sensors (Refer to Dimensions on page 15.)

 Red light  Infrared light

Sensing method	Appearance	Connection method	Sensing distance	Model	
				NPN output	PNP output
Through-beam *4 (Emitter + Receiver) *5		Pre-wired (2 m) *3	 15 m	<b>E3ZM-T61 2M</b>	<b>E3ZM-T81 2M</b>
		Connector (M8, 4 pins)		<b>E3ZM-T66</b>	<b>E3ZM-T86</b>
		Pre-wired (2 m) *3	 0.8 m (apertures built in)	<b>E3ZM-T63 2M</b>	<b>E3ZM-T83 2M</b>
		Connector (M8, 4 pins)		<b>E3ZM-T68</b>	<b>E3ZM-T88</b>
Retro-reflective with MSR function	 *1	Pre-wired (2 m) *3	 4 m (100 mm) *2 (Using E39-R1S)	<b>E3ZM-R61 2M</b>	<b>E3ZM-R81 2M</b>
		Connector (M8, 4 pins)		<b>E3ZM-R66</b>	<b>E3ZM-R86</b>
Diffuse-reflective		Pre-wired (2 m) *3	 1 m	<b>E3ZM-D62 2M</b>	<b>E3ZM-D82 2M</b>
		Connector (M8, 4 pins)		<b>E3ZM-D67</b>	<b>E3ZM-D87</b>
BGS reflective (fixed distance)		Pre-wired (2 m) *3	 10 to 100 mm	<b>E3ZM-LS61H 2M</b>	<b>E3ZM-LS81H 2M</b>
		Connector (M8, 4 pins)		<b>E3ZM-LS66H</b>	<b>E3ZM-LS86H</b>
		Pre-wired (2 m) *3	 10 to 150 mm	<b>E3ZM-LS62H 2M</b>	<b>E3ZM-LS82H 2M</b>
		Connector (M8, 4 pins)		<b>E3ZM-LS67H</b>	<b>E3ZM-LS87H</b>
		Pre-wired (2 m) *3	 10 to 200 mm	<b>E3ZM-LS64H 2M</b>	<b>E3ZM-LS84H 2M</b>
		Connector (M8, 4 pins)		<b>E3ZM-LS69H</b>	<b>E3ZM-LS89H</b>

\*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.

\*3. Pre-wired Models with a 5-m cable are also available for these products. When ordering, specify the cable length by adding "5M" to the end of the model number (e.g., E3ZM-LT61 5M).

\*4. Through-beam Models are also available with a light emission stop function. When ordering, add "-G0" to the end of the model number (e.g., E3ZM-T61-G0).

\*5. The model number of the Emitter is expressed by adding an "L" to the set model number in the table. Example: E3ZM-T61-L 2M

The model number of the receiver is expressed by adding a "D" to the set model number in the table. Example: E3ZM-T61-D 2M

Orders for individual Emitters and Receivers are accepted. (Modifications are required for some models.)

### Accessories (Order Separately)

**Reflectors** (A Reflector is required for Retro-reflective Sensors: A Reflector is not provided with the Sensor. Be sure to order a Reflector.)










(Refer to Dimensions on E39-L/F39-L/E39-S/E39-R.)

Name	E3ZM-R Sensing distance (typical) *	Model	Quantity	Remarks
Reflector	3 m (100 mm) (rated value)	<b>E39-R1</b>	1	<ul style="list-style-type: none"> <li>• Reflectors are not provided with Retro-reflective models.</li> <li>• The MSR function is enabled.</li> </ul>
	4 m (100 mm) (rated value)	<b>E39-R1S</b>	1	
	5 m (100 mm)	<b>E39-R2</b>	1	
	2.5 m (100 mm)	<b>E39-R9</b>	1	
	3.5 m (100 mm)	<b>E39-R10</b>	1	
Fog Preventive Coating	3 m (100 mm)	<b>E39-R1K</b>	1	
Small Reflector	1.5 m (50 mm)	<b>E39-R3</b>	1	
Tape Reflector	700 mm (150 mm)	<b>E39-RS1</b>	1	
	1.1 m (150 mm)	<b>E39-RS2</b>	1	
	1.4 m (150 mm)	<b>E39-RS3</b>	1	

Note: When using a Reflector without a rated value, use 0.7 times typical value as a guideline for the sensing distance.

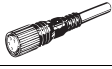

\* Values in parentheses indicate the minimum required distance between the Sensor and Reflector.

**Mounting Brackets** A Mounting Bracket is not enclosed with the Sensor. Order a Mounting Bracket separately if required.  
 (Refer to *Dimensions* on E39-L/F39-L/E39-S/E39-R.)

Appearance	Model (Material)	Quantity	Remarks	Appearance	Model (Material)	Quantity	Remarks
	E39-L153 (SUS304)	1	Mounting Brackets		E39-L98 (SUS304)	1	Metal Protective Cover Bracket *
	E39-L104 (SUS304)	1			E39-L150 (SUS304)	1 set	(Sensor adjuster)
	E39-L43 (SUS304)	1	Horizontal Mounting Bracket *		E39-L151 (SUS304)	1 set	Easily mounted to the aluminum frame rails of conveyors and easily adjusted.
	E39-L142 (SUS304)	1	Horizontal Protective Cover Bracket *				For left to right adjustment
	E39-L44 (SUS304)	1	Rear Mounting Bracket		E39-L144 (SUS304)	1	Compact Protective Cover Bracket *

Note: When using a Through-beam Sensor, order one Mounting Bracket for the Receiver and one for the Emitter.  
 \* Cannot be used for Standard Connector models.

**Sensor I/O Connectors** (Models for Connectors: A Connector is not provided with the Sensor. Be sure to order a Connector separately.)  
 (Refer to *Dimensions* on XS3.)

Size	Cable	Appearance	Cable type	Model	
M8 (4 pins) *	Standard	Straight 	2 m	4-wire	XS3F-M421-402-A
			5 m		XS3F-M421-405-A
		L-shaped 	2 m		XS3F-M422-402-A
			5 m		XS3F-M422-405-A

Note: When using a Through-beam Sensor, order one Mounting Bracket for the Receiver and one for the Emitter.  
 \* Cable specifications: Outer coating material: PVC, Nut material: Stainless steel, Degree of protection: IP67 (IEC 60529)