

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 (Emitter + Receiver)		Pre-wired (2 m)	15 m	E3ZM-T61 2M Emitter E3ZM-T61-L 2M Receiver E3ZM-T61-D 2M	E3ZM-T81 2M Emitter E3ZM-T81-L 2M Receiver E3ZM-T81-D 2M
		Connector (M8, 4 pins)		E3ZM-T66 Emitter E3ZM-T66-L Receiver E3ZM-T66-D	E3ZM-T86 Emitter E3ZM-T86-L Receiver E3ZM-T86-D
		Pre-wired (2 m)		E3ZM-T63 2M Emitter E3ZM-T63-L 2M Receiver E3ZM-T63-D 2M	E3ZM-T83 2M Emitter E3ZM-T83-L 2M Receiver E3ZM-T83-D 2M
		Connector (M8, 4 pins)	0.8 m (apertures built in)	E3ZM-T68 Emitter E3ZM-T68-L Receiver E3ZM-T68-D	E3ZM-T88 Emitter E3ZM-T88-L Receiver E3ZM-T88-D
Retro-reflective with MSR function		Pre-wired (2 m)	^{*2} 4 m (100 mm)	E3ZM-R61 2M	E3ZM-R81 2M
		Connector (M8, 4 pins)	(Using E39-R1S)	E3ZM-R66	E3ZM-R86
Diffuse-reflective		Pre-wired (2 m)	1 m	E3ZM-D62 2M	E3ZM-D82 2M
		Connector (M8, 4 pins)		E3ZM-D67	E3ZM-D87
BGS reflective (fixed distance)		Pre-wired (2 m)	10 to 100 mm	E3ZM-LS61H 2M	E3ZM-LS81H 2M
		Connector (M8, 4 pins)		E3ZM-LS66H	E3ZM-LS86H
		Pre-wired (2 m)	10 to 150 mm	E3ZM-LS62H 2M	E3ZM-LS82H 2M
		Connector (M8, 4 pins)		E3ZM-LS67H	E3ZM-LS87H
		Pre-wired (2 m)	10 to 200 mm	E3ZM-LS64H 2M	E3ZM-LS84H 2M
		Connector (M8, 4 pins)		E3ZM-LS69H	E3ZM-LS89H

*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 (Order Separately)

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 E39-L/E39-S/E39-R.)

Name	E3ZM-R Sensing distance *		Model	Quantity	Remarks
	Rated value	Reference value			
Reflector	3 m (100 mm)	---	E39-R1	1	• Reflectors are not provided with Retro-reflective models. • The MSR function is enabled.
	4 m (100 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)	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: 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.

* 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	1	Mounting Brackets		E39-L98 (SUS304) *2	1	Metal Protective Cover Bracket
	E39-L104 (SUS304) *1	1			E39-L150 (SUS304)	1 set	(Sensor adjuster)
	E39-L43 (SUS304) *2	1	Horizontal Mounting Bracket		E39-L151 (SUS304)	1 set	Easily mounted to the aluminum frame rails of conveyors and easily adjusted.
	E39-L142 (SUS304) *2	1	Horizontal Protective Cover Bracket				For left to right adjustment
	E39-L44 (SUS304)	1	Rear Mounting Bracket		E39-L144 (SUS304) *2	1	Compact Protective Cover Bracket

Note: When using a Through-beam Sensor, order one Mounting Bracket for the Receiver and one for the Emitter.

*1. Cannot be used for Standard Connector models with mounting surface on the bottom. In that case, use Pre-wired Connector models.

*2. Cannot be used for Standard Connector models.

Sensor I/O Connectors (Sockets on One Cable End)

(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) *1	Standard	Straight *2 	2 m	4-wire	XS3F-E421-402-A
			5 m		XS3F-E421-405-A
		L-shaped *2 *3 	2 m		XS3F-E422-402-A
			5 m		XS3F-E422-405-A

Note: When using a Through-beam Sensor, order one Mounting Bracket for the Receiver and one for the Emitter.

*1. Cable specifications: Outer coating material: PVC, Nut material: Stainless steel, Degree of protection: IP67 (IEC 60529)

*2. The connector will not rotate after connecting.

*3. The cable is fixed at an angle of 180° from the sensor emitter/receiver surface.