

## Two Models Contribute to Overall Cost Reduction

### E3JM Terminal Block Models

- Easy to wire and adjust.

### E3JK Pre-wired Models

- Slim body is economically priced and full of functions.



**⚠** Be sure to read *Safety Precautions* on page 10.

## Ordering Information

### Sensors (Refer to *Dimensions* on page 12.)

#### E3JM

Red light Infrared light

Sensing method	Appearance	Connection method	Sensing distance				Operation mode	Output configuration	Functions	Model
Through-beam (Emitter + Receiver)*	 E39-R1 (provided)	Terminal block					Relay	---	Red light	<b>E3JM-10M4-N</b>
										Emitter E3JM-10L-N Receiver E3JM-10DM4-N
			10 m				DC SSR	---	Infrared light	<b>E3JM-10M4T-N</b>
										Emitter E3JM-10L-N Receiver E3JM-10DM4T-N
			4 m				Relay	---	Red light	<b>E3JM-10S4-N</b>
										Emitter E3JM-10L-N Receiver E3JM-10DS4-N
			700 mm				DC SSR	---	Infrared light	<b>E3JM-10S4T-N</b>
										Emitter E3JM-10L-N Receiver E3JM-10DS4T-N
			700 mm				Relay	---	Red light	<b>E3JM-R4M4</b>
										Emitter E3JM-R4M4T
			700 mm				DC SSR	---	Infrared light	<b>E3JM-R4S4</b>
										Emitter E3JM-R4S4T
			700 mm				Relay	---	Red light	<b>E3JM-DS70M4</b>
										Emitter E3JM-DS70M4T
			700 mm				DC SSR	---	Infrared light	<b>E3JM-DS70S4</b>
										Emitter E3JM-DS70S4T

\* Through-beam Sensors are normally sold in sets that include both the Emitter and Receiver.  
Orders for individual Emitters and Receivers are accepted.

## E3JK

Sensing method	Appearance	Connection method	Sensing distance			Operation mode	Output configuration	Model
Through-beam (Emitter + Receiver) *1		Pre-wired (2 m)	5 m			Light-ON	Relay	E3JK-5M1-N 2M
			2.5 m (3 m) *2			Dark-ON		E3JK-5M2-N 2M
			4 m (5 m) *2			Light-ON Dark-ON	Both selectable	DC SSR
Retro-reflective with MSR function		E39-R1 (provided)	2.5 m (3 m) *2			Light-ON	Relay	E3JK-R2M1 2M
			4 m (5 m) *2			Dark-ON		E3JK-R2M2 2M
			300 mm			Light-ON Dark-ON	Both selectable	DC SSR
Retro-reflective without MSR function			4 m (5 m) *2			Light-ON	Relay	E3JK-R4M1 2M
			300 mm			Dark-ON		E3JK-R4M2 2M
			300 mm			Light-ON Dark-ON	Both selectable	DC SSR
Diffuse-reflective			300 mm			Light-ON	Relay	E3JK-DS30M1 2M
			300 mm			Dark-ON		E3JK-DS30M2 2M
			300 mm			Light-ON Dark-ON	Both selectable	DC SSR

Note: UL-listed models have the -US suffix. Through-beam models have -US suffix instead of -N suffix. (Example: E3JM-10M4-US 2M). Tightening nuts, washers, and rubber bushings are not provided with these models.

Change: Shape of the E3JM conduit socket

Note, however, that DC-type E3JK SSR Output Models are not UL-listed.

\*1. Through-beam Sensors are normally sold in sets that include both the Emitter and Receiver.

Orders for individual Emitters and Receivers are accepted.

\*2. Values in parentheses indicate the sensing distance when using E39-R2 Reflectors.

## Accessories (Order Separately)

**Slit** (A Slit is not provided with the Sensor for through-beam. Order a Slit separately if required.) (Refer to *Dimensions* on page 12.)

Slit width	Sensing distance		Minimum detectable object (typical)	Model	Quantity	Remarks
1 mm × 20 mm	E3JM-10□4(T)-N		1-mm dia.	E39-S39	1 Slit each for the Emitter and Receiver (2 Slits total)	(Seal-type long slit) Can be used with the E3JM-10□4(T)-N and E3JK-5□□-N Through-beam Models.
	E3JK-5□□-N					

## Reflectors (A Reflector is required for Retroreflective Sensors.)

A Reflector is provided with the E39-R1 Sensor. For other Sensors, order a Reflector separately if required. (Refer to *Dimensions* on E39-L/F39-L/E39-S/E39-R.)

Name	Sensing distance (typical)		Model	Quantity	Remarks	
Reflectors	E3JM-R4□4(T)	4 m (rated value)	E39-R1	1	Provided with the E3JM-R4□4(T) Provided with the E3JK-R2□□ Provided with the E3JK-R4□□	
	E3JK-R2□□	2.5 m (rated value)				
	E3JK-R4□□	4 m (rated value)				
	E3JK-R2□□	3 m	E39-R2	1	---	
	E3JK-R4□□	5 m				
Small Reflectors	E3JM-R4□4(T)	3.5 m	E39-R3	1	---	
	E3JK-R2□□	1 m (5 mm) *				
Tape Reflectors	E3JM-R4□4(T)	1 m (200 mm) *	E39-RS1	1	Enables MSR function.	
	E3JK-R2□□	750 mm (200 mm) *				
	E3JM-R4□4(T)	1.6 m (200 mm) *	E39-RS2	1		
	E3JK-R2□□	1.2 m (200 mm) *				
	E3JM-R4□4(T)	2 m (200 mm) *	E39-RS3	1		
	E3JK-R2□□	1.5 m (200 mm) *				

Note: 1. When using any reflector other than the provided one, use a sensing distance of approximately 0.7 times the typical value as a guide.

2. Refer to *Reflectors* on E39-L/F39-L/E39-S/E39-R for details.

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

**Mounting Bracket**

Some Mounting Brackets are provided with the Sensor. Order other Mounting Brackets separately if required. (Refer to E39-L/F39-L/E39-S/E39-R)

Appearance	Model	Quantity	Remarks
	E39-L53	1	Provided with the E3JM.
	E39-L40	1	Provided with the E3JK.
	E39-L51	1	Mounting Bracket designed for changing from the E3A-M, E3A2, E3A3, OA-5, or OA-5N to the E3JM.

Note: 1. When using a Through-beam Sensor, order one Connector for the Receiver and one for the Emitter.

2. Refer to *Mounting Brackets* on E39-L/F39-L/E39-S/E39-R for details.

## Ratings and Specifications

### E3JM

Sensing method		Through-beam model	Retro-reflective model (with MSR function)	Diffuse-reflective model
Item	Model	E3JM-10□4(T)-N	E3JM-R4□4(T)	E3JM-DS70□4(T)
<b>Sensing distance</b>		10 m	4 m (When using E39-R1)	White paper (200 × 200 mm): 700 mm
<b>Standard sensing object</b>		Opaque: 14.8-mm dia. min.	Opaque: 75-mm dia. min.	---
<b>Differential travel</b>		---		20% max. of sensing distance
<b>Directional angle</b>		Both Emitter and Receiver 3° to 20°	1° to 5°	---
<b>Light source (wavelength)</b>		Infrared LED (950 nm)	Red LED (660 nm)	Infrared LED (950 nm)
<b>Power supply voltage</b>		12 to 240 VDC±10%, ripple (p-p): 10% max. 24 to 240 VAC±10%, 50/60 Hz		
<b>Power consumption</b>	<b>DC</b>	3 W max. (Emitter 1.5 W max. Receiver 1.5 W max.)	2 W max.	
	<b>AC</b>	3 W max. (Emitter 1.5 W max. Receiver 1.5 W max.)	2 W max.	
<b>Control output</b>		Relay output (E3JM-□□M4 (T) model): SPDT, 250 VAC, 3A ( $\cos\phi=1$ ) max., 5 VDC, 10 mA min. DC SSR output (E3JM-□□S4 (T) model): 48 VDC, 100 mA max. (residual voltage: 2 V max.) Light-ON/Dark-ON selectable		
<b>Life expectancy (relay output)</b>	<b>Mechanical</b>	50,000,000 times min. (switching frequency: 18,000 times/h)		
	<b>Electrical</b>	100,000 times min. (switching frequency: 1,800 times/h)		
<b>Response time</b>	<b>Relay output</b>	(E3JM-□□M4 (T) models) Operate or reset: 30 ms max.		
	<b>DC SSR output</b>	(E3JM-□□S4 (T) models) Operate or reset: 5 ms max.		
<b>Sensitivity adjustment</b>		---		One-turn adjuster
<b>Timer function *</b>		ON-delay/OFF-delay/One-shot delay switch selectable Delay time: 0.1 to 5 s (adjustable), only for E3JM-□□□4T		
<b>Ambient illumination (Receiver side)</b>		Incandescent lamp: 3,000 lx max.		
<b>Ambient temperature range</b>		Operating: -25°C to 55°C, Storage: -30°C to 70°C (with no icing or condensation)		
<b>Ambient humidity range</b>		Operating: 45% to 85% (with no condensation), Storage: 35% to 95% (with no condensation)		
<b>Insulation resistance</b>		20 MΩ min. at 500 VDC		
<b>Dielectric strength</b>		2,000 VAC, 50/60 Hz for 1 min.		
<b>Vibration resistance</b>	<b>Destruction</b>	10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions		
	<b>Malfunction</b>	10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions		
<b>Shock resistance</b>	<b>Destruction</b>	500 m/s <sup>2</sup> 3 times each in X, Y, and Z directions		
	<b>Malfunction</b>	100 m/s <sup>2</sup> 3 times each in X, Y, and Z directions		
<b>Degree of protection</b>		IEC 60529: IP66		
<b>Connection method</b>		Terminal block		
<b>Weight (packed state)</b>		Approx. 270 g	Approx. 160 g	
<b>Material</b>	<b>Case</b>	ABS (Acrylonitril Butadiene Styrene)		
	<b>Lens</b>	Methacrylic resin		
	<b>Cover</b>	Polycarbonate		
	<b>Mounting Bracket</b>	Iron		
<b>Accessories</b>		Mounting Bracket (with screw), Nuts, Terminal Protection Cover, One set of cable connection nuts (excluding -US Models), Instruction manual, Reflector (E39-R1: only for Retro-reflective Sensors)		

\* The timer cannot be disabled for models with timer functions (E3JM-□□□4T).

## E3JK

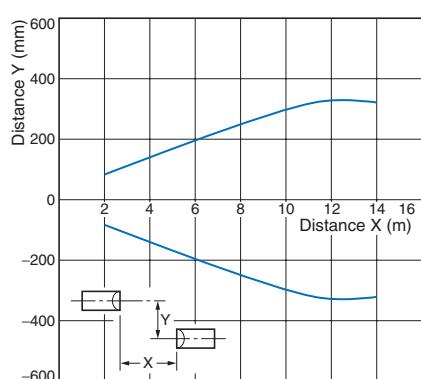
Sensing method		Through-beam model		Retro-reflective model (with MSR function)		Retro-reflective model (without MSR function)		Diffuse-reflective model							
Item	Model	E3JK -5M□-N	E3JK -5S3-N	E3JK -R2M□	E3JK -R2S3	E3JK -R4M□	E3JK -R4S3	E3JK -DS30M□	E3JK -DS30S3						
Sensing distance	5 m	2.5 m (When using E39-R1)		4 m (When using E39-R1)		White paper (100×100 mm): 300 mm		---							
Standard sensing object	Opaque: 14.8-mm dia. min.	Opaque: 75-mm dia. min.		---		---		20% max. of sensing distance							
Directional angle	Both Emitter and Receiver 3° to 20°	1° to 5°		---		---		---							
Light source (wavelength)	Infrared LED (950 nm)	Red LED (660 nm)		Infrared LED (950 nm)		Infrared LED (950 nm)		Infrared LED (950 nm)							
Power supply voltage	12 to 240 VDC±10%, ripple (p-p): 10% max. 24 to 240 VAC±10%, 50/60 Hz	3 W max. (Emitter 1.5 W max. Receiver 1.5 W max.)		2 W max.		2 W max.		2 W max.							
Power consumption	DC	3 W max. (Emitter 1.5 W max. Receiver 1.5 W max.)		2 W max.		2 W max.		2 W max.							
Control output		Relay output SPDT, 250 VAC, 3 A max. ( $\cos\phi=1$ ) 5 VDC, 10 mA min.	DC SSR output, Negative: common 48 VDC, 100 mA max. Leakage current: 0.1 mA max. With load short-circuit protection	Relay output SPDT, 250 VAC, 3 A max. ( $\cos\phi=1$ ) 5 VDC, 10 mA min.	DC SSR output, Negative: common 48 VDC, 100 mA max. Leakage current: 0.1 mA max. With load short-circuit protection	Relay output SPDT, 250 VAC, 3 A max. ( $\cos\phi=1$ ) 5 VDC, 10 mA min.	DC SSR output, Negative: common 48 VDC, 100 mA max. Leakage current: 0.1 mA max. With load short-circuit protection	Relay output SPDT, 250 VAC, 3 A max. ( $\cos\phi=1$ ) 5 VDC, 10 mA min.	DC SSR output, Negative: common 48 VDC, 100 mA max. Leakage current: 0.1 mA max. With load short-circuit protection						
Life expectancy (relay output)	Mechanical	50,000,000 times min. (switching frequency: 18,000 times/h)													
	Electrical	100,000 times min. (switching frequency: 1,800 times/h)													
Response time		30 ms max.	10 ms max.	30 ms max.	5 ms max.	30 ms max.	5 ms max.	30 ms max.	5 ms max.						
Sensitivity adjustment		---		One-turn adjuster		One-turn adjuster		One-turn adjuster							
Ambient illumination (Receiver side)		Incandescent lamp: 3,000 lx max.													
Ambient temperature range		Operating: -25°C to 55°C, Storage: -30°C to 70°C (with no icing or condensation)													
Ambient humidity range		Operating: 45% to 85% (with no condensation), Storage: 35% to 95% (with no condensation)													
Insulation resistance		20 MΩ min. at 500 VDC													
Dielectric strength		1,500 VAC, 50/60 Hz for 1 min.													
Vibration resistance	Destruction	10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions													
	Malfunction	10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions													
Shock resistance	Destruction	500 m/s <sup>2</sup> 3 times each in X, Y, and Z directions													
	Malfunction	100 m/s <sup>2</sup> 3 times each in X, Y, and Z directions	500 m/s <sup>2</sup> 3 times each in X, Y, and Z directions	100 m/s <sup>2</sup> 3 times each in X, Y, and Z directions	500 m/s <sup>2</sup> 3 times each in X, Y, and Z directions	100 m/s <sup>2</sup> 3 times each in X, Y, and Z directions	500 m/s <sup>2</sup> 3 times each in X, Y, and Z directions	100 m/s <sup>2</sup> 3 times each in X, Y, and Z directions	500 m/s <sup>2</sup> 3 times each in X, Y, and Z directions						
Degree of protection		IEC 60529 IP64													
Connection method		Pre-wired (standard length: 2 m)													
Weight (packed state)		Approx. 420 g		Approx. 250 g		---		---							
Material	Case	ABS (Acrylonitril Butadiene Styrene)													
	Lens	Methacrylic resin													
	Mounting Bracket	Iron													
Accessories		Mounting Bracket (with screws), Nuts, Instruction manual, Reflector (Retro-reflective Models only)													

## Engineering Data (Typical)

### Parallel Operating Range

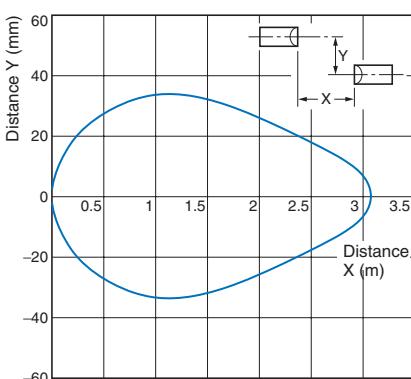
#### Through-beam

E3JM-10□4(T)-N



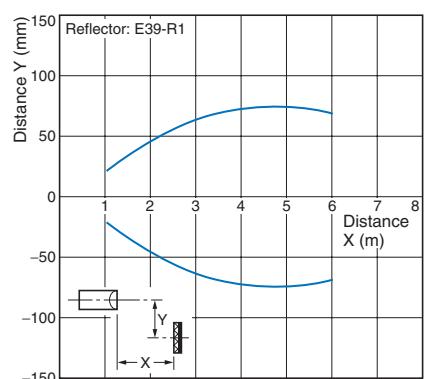
#### Through-beam

E3JM-10□4(T)-N + E39-S39 (Optional Slit)  
(A Slit is mounted to the Emitter and Receiver.)



#### Retro-reflective

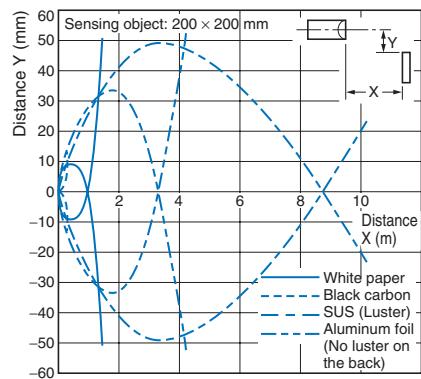
E3JM-R4□4(T) + E39-R1  
(Supplied Reflector)



### Operating Range

#### Diffuse-reflective

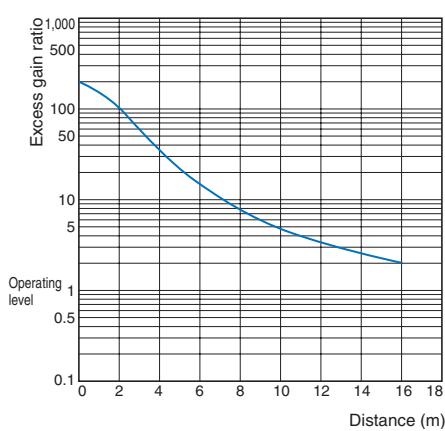
E3JM-DS70□4(T)



### Excess Gain Ratio vs. Set Distance

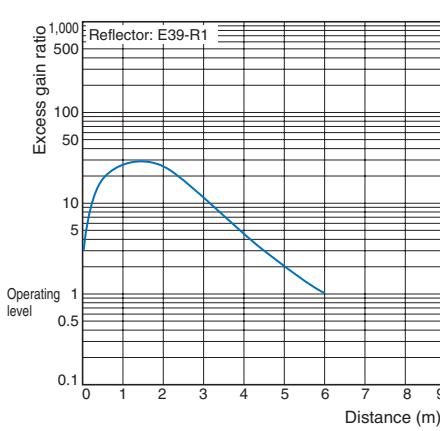
#### Through-beam

E3JM-10□4(T)-N

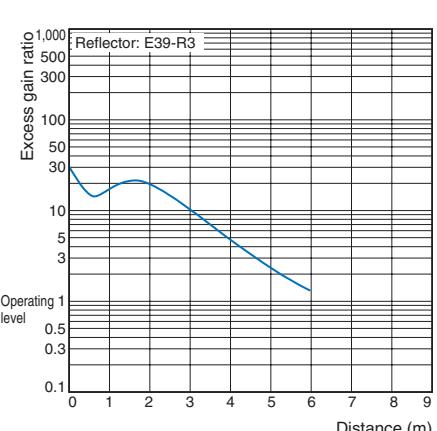


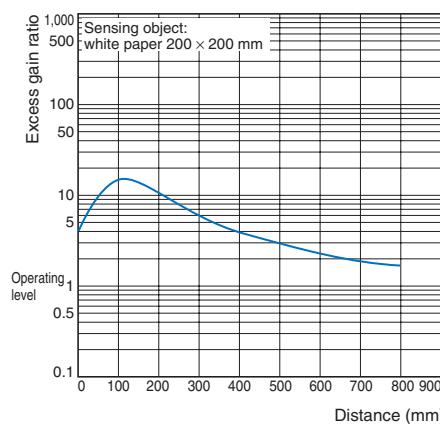
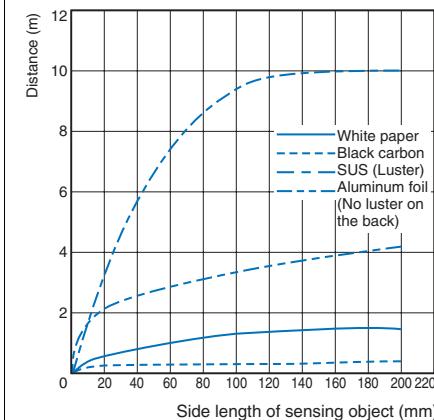
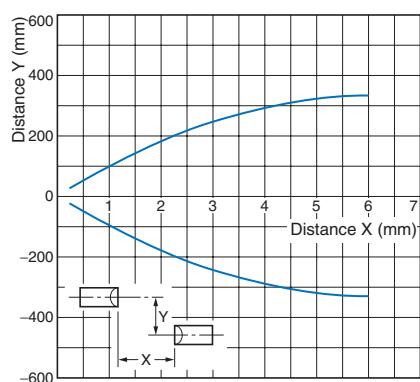
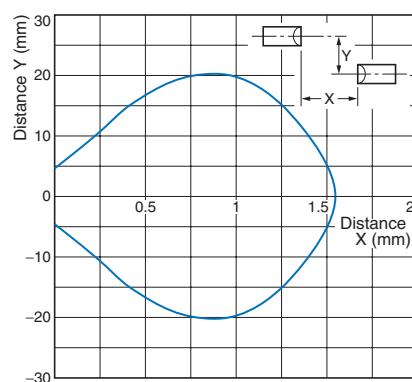
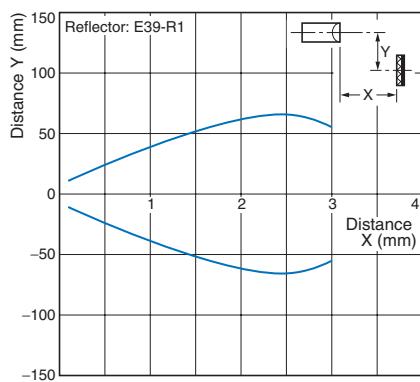
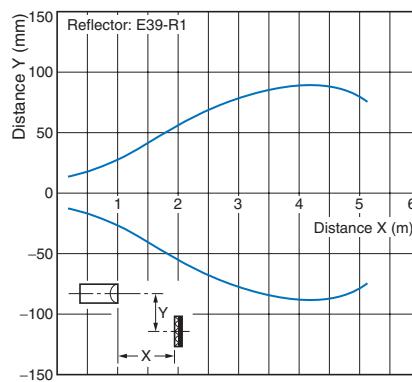
#### Retro-reflective

E3JM-R4□4(T) + E39-R1  
(Supplied Reflector)



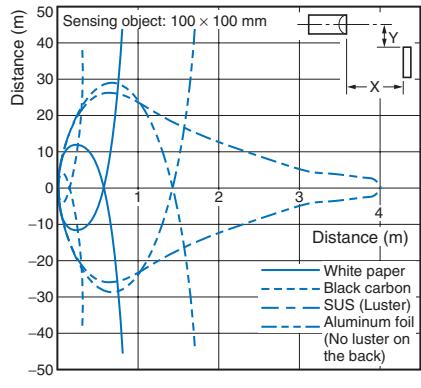
E3JM-R4□4(T) + E39-R3  
(Optional Reflector)



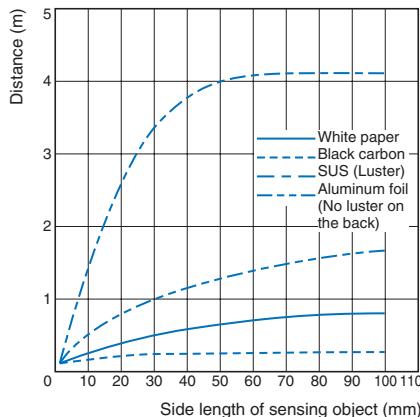
**Diffuse-reflective****E3JM-DS70□4(T)****Sensing Object Size vs. Sensing Distance****E3JM-DS70□4(T)****Parallel Operating Range****Through-beam****E3JK-5□□-N****E3JK-5□□-N + E39-S39 (Optional Slit)**  
(A Slit is mounted to the Emitter and Receiver.)**Retro-reflective****E3JK-R2□□ + E39-R1**  
(Supplied Reflector)**E3JK-R4□□ + E39-R1**  
(Supplied Reflector)

**Operating Range****Diffuse-reflective**

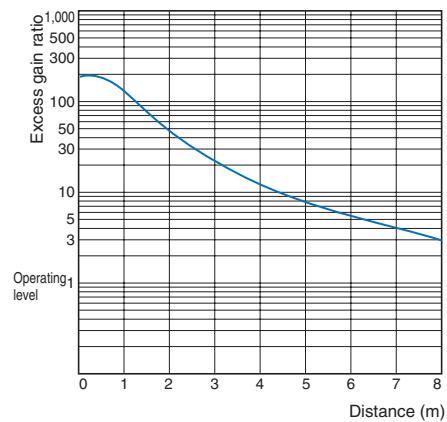
E3JK-DS30□□

**Sensing Object Size vs. Sensing Distance****Diffuse-reflective**

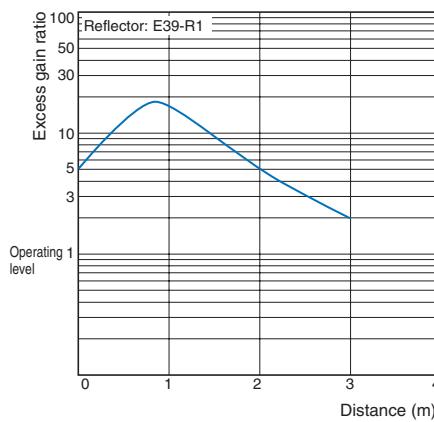
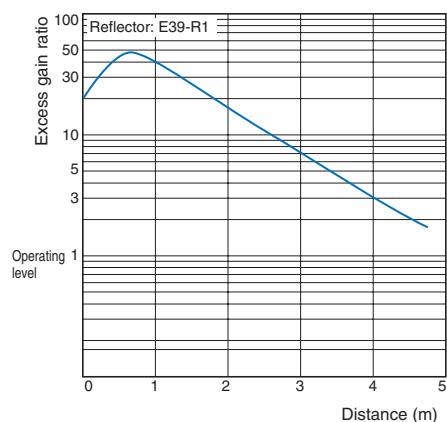
E3JK-DS30□□

**Excess Gain Ratio vs. Set Distance****Through-beam**

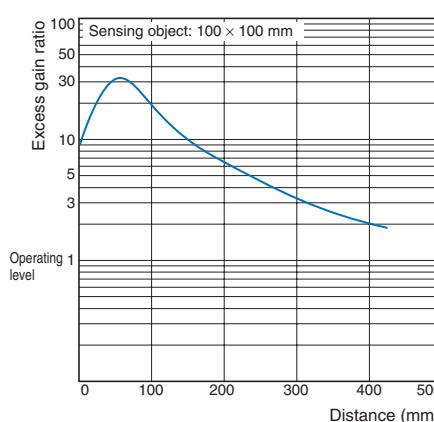
E3JK-5□□-N

**Retro-reflective**

E3JK-R2□□ + E39-R1 (Supplied Reflector)

E3JK-R4□□ + E39-R1  
(Supplied Reflector)**Diffuse-reflective**

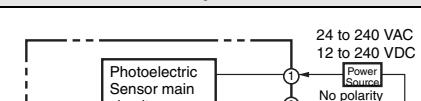
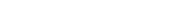
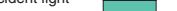
E3JK-DS30□□



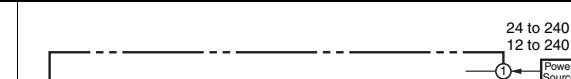
## I/O Circuit Diagrams

E3JM

## Relay Output Models

Model	Timing chart	Output circuit
E3JM-10M4(T)-N *	<p>Incident light No incident light</p> 	 <p>24 to 240 VAC 12 to 240 VDC Photoelectric Sensor main circuit Power Source No polarity 1 2 3 Tb 4 Tc 5 Ta Contact output (Built-in Relay: G6C)</p>
E3JM-R4M4(T)	<p>Light indicator (red) ON OFF</p> 	
E3JM-DS70M4(T)	<p>L-ON (Ta) ON OFF</p> 	
	<p>D-ON (Ta) ON OFF</p> 	

## DC SSR Output Models

Model	Timing chart	Output circuit
E3JM-10S4(T)-N *	<p>Incident light No incident light</p> 	
E3JM-R4S4(T)	<p>Light indicator (red) ON</p> 	
E3JM-DS70S4(T)	<p>L-ON (Ta) ON</p> 	
	<p>D-ON (Ta) ON</p> 	

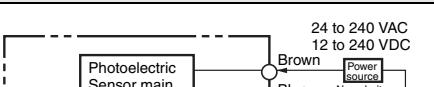
Note: Connect terminal 1 to any polarity and terminal 2 to the power supply because there is no polarity on the Emitter side.

\* Models numbers for Through-beam Sensors (E3JM-10□4(T)-N) are for sets that include both the Emitter and Receiver.

The model number of the Emitter is E3JM-10L-N for all models. The model number of the Receiver, by adding "D" (example: E3JM-10DM4-N). Refer to *Ordering Information* to confirm model numbers for Emitter and Receivers.

E3JK

## Relay Output Models

Model	Timing chart	Output circuit
E3JK-5M1-N *		
E3JK-5M2-N *		
E3JK-R2M1	Incident light No incident light	
E3JK-R2M2	Light indicator (red)	ON
E3JK-R4M1	L-ON (Ta)	ON
E3JK-R4M2	(E3JK-□□M1)	OFF
E3JK-DS30M1	D-ON (Ta)	ON
E3JK-DS30M2	(E3JK-□□M2)	OFF
		 <p>24 to 240 VAC 12 to 240 VDC</p> <p>Photoelectric Sensor main circuit</p> <p>Brown</p> <p>Blue</p> <p>White</p> <p>Black</p> <p>Gray</p> <p>Tc</p> <p>Tb</p> <p>Ta</p> <p>Contact output</p> <p>(Built-in Relay: G6C)</p>

## DC SSR Output Models

Model	Timing chart	Output circuit
E3JK-5S3-N *	<p>Incident light No incident light</p> <p>Light indicator (red) ON OFF</p> <p>L-ON output ON OFF</p> <p>D-ON output ON OFF</p>	<p>24 to 240 VAC 12 to 240 VDC</p> <p>Brown Power Source No polarity</p> <p>Blue</p> <p>Gray</p> <p>Black</p> <p>White</p> <p>48 VDC max.</p> <p><math>I_1 + I_2 &lt; 100 \text{ mA}</math></p>
E3JK-R2S3		
E3JK-R4S3		
E3JK-DS30S3		

Note: Connect the brown cable to any polarity and the blue cable to the power supply because there is no polarity on the Emitter side.

\* Models numbers for Through-beam Sensors (E3JK-5□□-N2M) are for sets that include both the Emitter and Receiver.

The model number of the Emitter is E3JK-5L-N 2M for all models. The model number of the Receiver, by adding "D" (example: E3JK-5DM1-N 2M). Refer to *Ordering Information* to confirm model numbers for Emitter and Receivers.

## Safety Precautions

Refer to *Warranty and Limitations of Liability*.

### WARNING

This product is not designed or rated for ensuring safety of persons either directly or indirectly. Do not use it for such purposes.



### Precautions for Correct Use

Do not use the product in atmospheres or environments that exceed product ratings.

### E3JM

#### ● Designing

#### Operation

Note: The white part of the DIP switch indicates which setting is selected.

	Switch configuration	Switch selection			Timing charts		
Models without timer							
Models with timer							

Note: The operation selector is the same as that for models without a timer.

#### Output Relay Contact

If E3JM/E3JK is connected to a load with contacts that spark when the load is turned OFF (e.g., a contactor or valve), the normally-closed side may be turned ON before the normally-open side is turned OFF or vice-versa. If both normally-open output and normally-closed output are used simultaneously, apply a surge suppressor to the load.

Refer to *OMRON's PCB Relays Catalog (X33)* for typical examples of surge suppressors.

## ● Wiring

### Connecting and Wiring

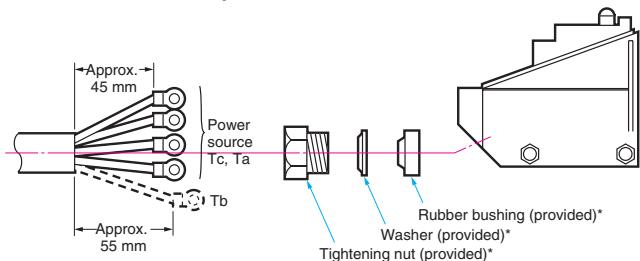
- We recommend connecting a cable with a conductor cross-section of 0.3 mm<sup>2</sup> and an outer diameter of 6 to 8 mm.
- Be sure to firmly tighten the cover in order to maintain waterproof and dustproof properties. The screw size of the conduit sockets is shown in the following table.

Model	Conduit socket thread size
E3JM-□	PF1/2

### Cable End Treatment

Adjust the four wires to the same length when the Ta output is to be used only. If both the Ta and Tb outputs are to be used, treat them as shown in the following diagram.

#### Recommended example



\* These parts are not provided with models with a -US suffix.

### Recommended Crimp Terminal Dimensions (Unit: mm)

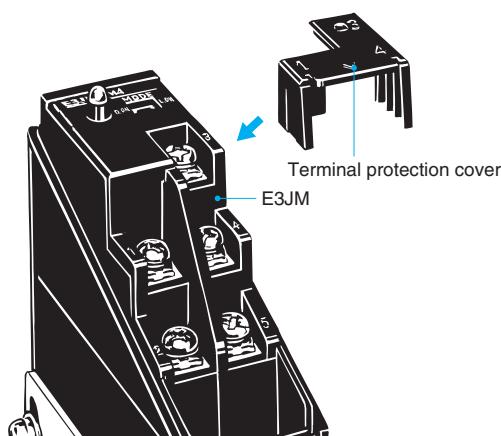
Round type	Fork type

Note: Use terminals with insulation tube (recommended crimp terminal: 1.25 to 3.5).

## ● Others

### Terminal Protection Cover (Provided)

The terminal protection cover is designed to improve safety by maintaining the sensitivity properties of the product and by preventing any contact with charged sections while it is being operated with the mode set to the timer mode. Mount the product as shown in the following diagram (mount the Through-beam Model on the Receiver side).



## E3JK

### ● Designing

#### Power Reset Time

The Sensor is ready to detect within 200 ms after it is turned ON. If the Sensor and load are connected to separate power supplies, be sure to turn ON the Sensor first.

### Items Common to E3JM and E3JK

## ● Wiring

### Connecting and Wiring DC SSR Output Models

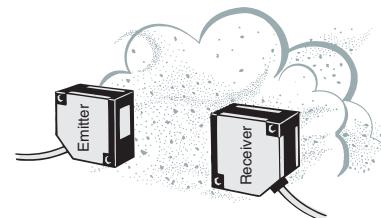
When using the DC SSR output model, the total of the load current for the Light-ON output (NO) and that for the Dark-ON (NC) should be 100 mA max. If the total exceeds 100 mA, the load short-circuit protection function will be activated (this function will be reset when the power of the Photoelectric Sensor is turned OFF).

## ● Others

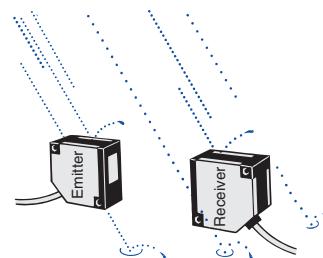
### Ambient Conditions (Installation Area)

The E3JM will malfunction if installed in the following places.

- Places where the E3JM is exposed to a dusty environment.
- Places where corrosive gases are produced.



- Places where the E3JM is directly exposed to water, oil, or chemicals.

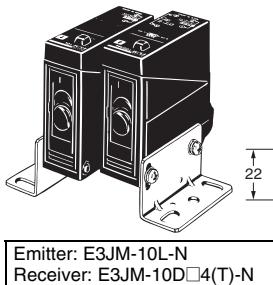


(Unit: mm)  
Tolerance class IT16 applies to dimensions in this datasheet unless otherwise specified.

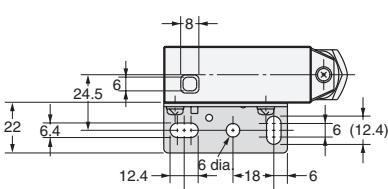
## Dimensions

### Sensors

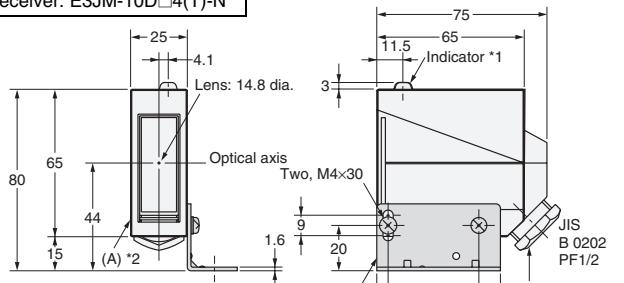
#### E3JM-10□4(T)-N \*1



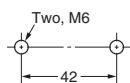
With Mounting Bracket Attached



Emitter: E3JM-10L-N  
Receiver: E3JM-10D□4(T)-N



Mounting Holes

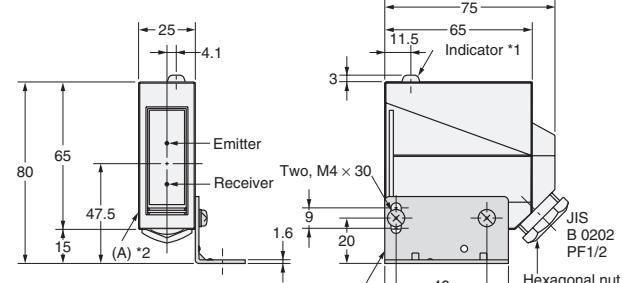
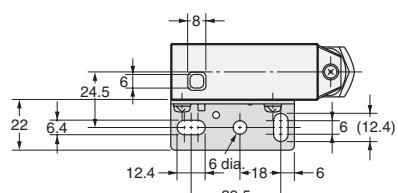


\*1. Emitter: Power indicator  
Receiver: Light indicator (without timer function)  
Operation indicator (with timer function)  
\*2. Mounting Brackets can be used on the A side.

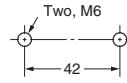
Note: The operating mode switch and timer mode switch are located inside the cover.

#### E3JM-R4□4(T) E3JM-DS70□4(T)

With Mounting Bracket Attached



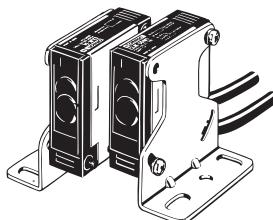
Mounting Holes



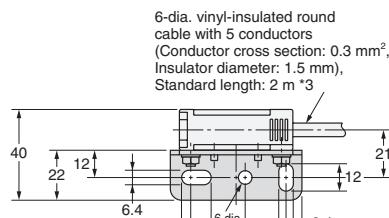
\*1. Light indicator (without timer function)  
Operation indicator (with timer function)  
\*2. Mounting Brackets can be used on the A side.

Note: The operating mode switch, timer mode switch, and sensitivity adjuster (sensitivity adjuster: E3JM-DS70□4(T) only) are located inside the cover.

#### E3JK-5□□-N \*2

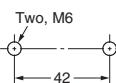


With Mounting Bracket Attached



Emitter: E3JK-5L-N  
Receiver: E3JK-5D□□-N

Mounting Holes



\*1. Mounting Brackets can be used on the A side (M4 x 20 screws: 2 sets provided)  
\*2. Emitter: Power indicator  
Receiver: Light indicator  
\*3. The Emitter has two conductors.

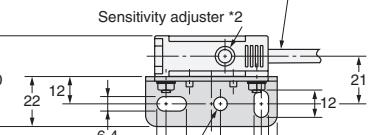
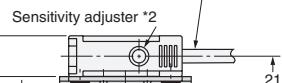
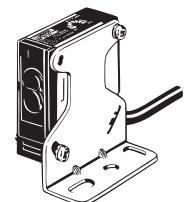
#### E3JK-R2□□

#### E3JK-R4□□

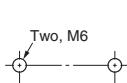
#### E3JK-DS30□□

With Mounting Bracket Attached

6-dia. vinyl-insulated round cable with 5 conductors (Conductor cross section: 0.3 mm<sup>2</sup>, Insulator diameter: 1.5 mm), Standard length: 2 m



Mounting Holes



\*1. Mounting Brackets can be used on the A side (M4 x 20 screws: 2 sets provided)  
\*2. Sensitivity adjusters are not available on Retro-reflective models.

\*1. Models numbers for Through-beam Sensors (E3JM-10□4(T)-N) are for sets that include both the Emitter and Receiver.

The model number of the Emitter is E3JM-10L-N for all models. The model number of the Receiver, by adding "D" (example: E3JM-10DM4-N). Refer to *Ordering Information* to confirm model numbers for Emitter and Receivers.

\*2. Models numbers for Through-beam Sensors (E3JK-5□□-N) are for sets that include both the Emitter and Receiver.

The model number of the Emitter is E3JK-5L-N 2M for all models. The model number of the Receiver, by adding "D" (example: E3JK-5DM1-N 2M). Refer to *Ordering Information* to confirm model numbers for Emitter and Receivers.

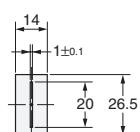
### Accessories (Order separately)

#### Seal-type Long Slit (For E3JM/E3JK)

#### E39-S39



Materials: Polyester  
0.1-mm thick



#### Mounting Brackets

Refer to E39-L/F39-L/E39-S/E39-R for details.

## Read and Understand This Catalog

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

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- Systems, machines, and equipment that could present a risk to life or property.

Please know and observe all prohibitions of use applicable to the products.

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2010.10

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