

E3JM/E3JK



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.

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

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) *		Terminal block		Light-ON Dark-ON (switch selectable)	Relay	---	E3JM-10M4-N Emitter: E3JM-10L-N Receiver: E3JM-10DM4-N
							E3JM-10M4T-N Emitter: E3JM-10L-N Receiver: E3JM-10DM4T-N
Retro-reflective with MSR function	 E39-R1 (provided)	Terminal block		Light-ON Dark-ON (switch selectable)	DC SSR	---	E3JM-10S4-N Emitter: E3JM-10L-N Receiver: E3JM-10DS4-N
							E3JM-10S4T-N Emitter: E3JM-10L-N Receiver: E3JM-10DS4T-N
Diffuse-reflective		Terminal block		Light-ON Dark-ON (switch selectable)	Relay	---	E3JM-R4M4
							E3JM-R4M4T
					DC SSR	---	E3JM-R4S4
							E3JM-R4S4T
Diffuse-reflective		Terminal block		Light-ON Dark-ON (switch selectable)	Relay	---	E3JM-DS70M4
							E3JM-DS70M4T
Diffuse-reflective		Terminal block		Light-ON Dark-ON (switch selectable)	DC SSR	---	E3JM-DS70S4
							E3JM-DS70S4T

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

E3JK

Sensing method	Appearance	Connection method	Sensing distance	Operation mode	Output configuration	Model	
Through-beam (Emitter + Receiver) *1		Pre-wired (2 m)		Light-ON	Relay	E3JK-5M1-N 2M	
				Dark-ON		E3JK-5M2-N 2M	
Retro-reflective with MSR function				Light-ON	Both selectable	DC SSR	E3JK-5S3-N 2M
				Dark-ON			E3JK-R2M1 2M
Retro-reflective without MSR function	E39-R1 (provided)			Light-ON	Both selectable	Relay	E3JK-R2M2 2M
				Dark-ON			E3JK-R2S3 2M
Diffuse-reflective				Light-ON	Both selectable	DC SSR	E3JK-R4M1 2M
				Dark-ON			E3JK-R4M2 2M
Diffuse-reflective				Light-ON	Both selectable	Relay	E3JK-R4S3 2M
				Dark-ON			E3JK-DS30M1 2M
Diffuse-reflective				Light-ON	Both selectable	DC SSR	E3JK-DS30M2 2M
				Dark-ON			E3JK-DS30S3 2M

Note: UL-listed models have the -US suffix. The model number for an E3JM Through-beam Sensor ends in "-US" (and not in "-N"). (Example: E3JM-10M4-US). The model number for an E3JK Through-beam Sensor has "-US" after "-N". (Example: E3JK-5M1-N-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 sold in sets that include both the Emitter and Receiver.

*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 (reference value)	Model	Quantity	Remarks
1 mm × 20 mm	E3JM-10□4(T)-N	1.2 m	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	0.7 m			

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/E39-S/E39-R.)

Name	Sensing distance	Model	Quantity	Remarks	
Reflectors	E3JM-R4□4(T)	4 m	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			
	E3JK-R4□□	4 m			

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

Mounting Bracket

Some Mounting Brackets are provided with the Sensor. Order other Mounting Brackets separately if required. (Refer to E39-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/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)
Sensing distance		10 m	4 m (When using E39-R1)	White paper (200 × 200 mm): 700 mm
Standard sensing object		Opaque: 14.8-mm dia. min.	Opaque: 75-mm dia. min.	---
Differential travel		---		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)
Power supply voltage		12 to 240 VDC±10%, ripple (p-p): 10% max. 24 to 240 VAC±10%, 50/60 Hz		
Power consumption	DC	3 W max. (Emitter 1.5 W max. Receiver 1.5 W max.)	2 W max.	
	AC	3 W max. (Emitter 1.5 W max. Receiver 1.5 W max.)	2 W max.	
Control output		Relay output (E3JM-□□M4 (T) model): SPDT, 250 VAC, 3A (cosφ=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		
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	Relay output	(E3JM-□□M4 (T) models) Operate or reset: 30 ms max.		
	DC SSR output	(E3JM-□□S4 (T) models) Operate or reset: 5 ms max.		
Sensitivity adjustment		---		One-turn adjuster
Timer function *		ON-delay/OFF-delay/One-shot delay switch selectable Delay time: 0.1 to 5 s (adjustable), only for E3JM-□□□4T		
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		2,000 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 ² 3 times each in X, Y, and Z directions		
	Malfunction	100 m/s ² 3 times each in X, Y, and Z directions		
Degree of protection		IEC 60529: IP66		
Connection method		Terminal block		
Weight (packed state)		Approx. 270 g	Approx. 160 g	
Material	Case	ABS (Acrylonitril Butadiene Styrene)		
	Lens	Methacrylic resin		
	Cover	Polycarbonate		
	Mounting Bracket	Iron		
Accessories		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

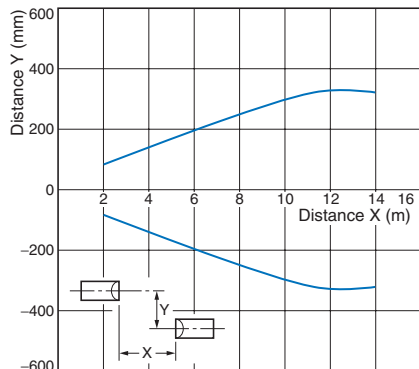
Sensing method		Through-beam model		Retro-reflective model (with MSR function)		Retro-reflective model (without MSR function)		Diffuse-reflective model	
Item	Model	E3JK -5M□-N	E3JK -5S3-N	E3JK -R2M□	E3JK -R2S3	E3JK -R4M□	E3JK -R4S3	E3JK -DS30M□	E3JK -DS30S3
Sensing distance		5 m		2.5 m (When using E39-R1)		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.				---	
Differential travel				---				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)	
Power supply voltage		12 to 240 VDC±10%, ripple (p-p): 10% max. 24 to 240 VAC±10%, 50/60 Hz							
Power consumption	DC	3 W max. (Emitter 1.5 W max. Receiver 1.5 W max.)		2 W max.					
	AC	3 W max. (Emitter 1.5 W max. Receiver 1.5 W max.)		2 W max.					
Control output		Relay output SPDT, 250 VAC, 3 A max. (cosφ= 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. (cosφ= 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. (cosφ= 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. (cosφ= 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	
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 ² 3 times each in X, Y, and Z directions							
	Malfunction	100 m/s ² 3 times each in X, Y, and Z directions	500 m/s ² 3 times each in X, Y, and Z directions	100 m/s ² 3 times each in X, Y, and Z directions	500 m/s ² 3 times each in X, Y, and Z directions	100 m/s ² 3 times each in X, Y, and Z directions	500 m/s ² 3 times each in X, Y, and Z directions	100 m/s ² 3 times each in X, Y, and Z directions	500 m/s ² 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 (Reference Value)

Parallel Operating Range

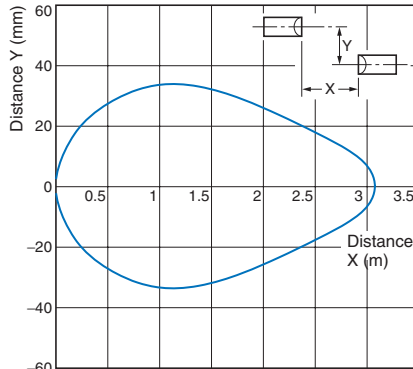
Through-beam

E3JM-10□4(T)-N



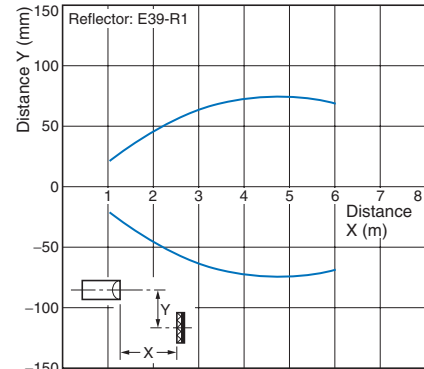
Through-beam

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



Retro-reflective

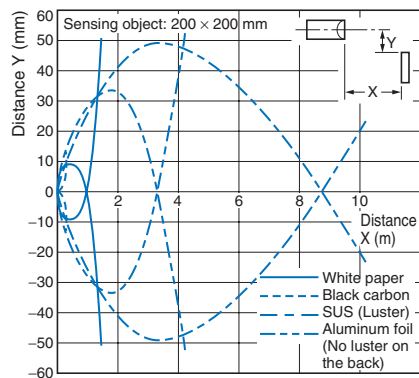
E3JM-R4□4(T) + E39-R1
(Supplied Reflector)



Operating Range

Diffuse-reflective

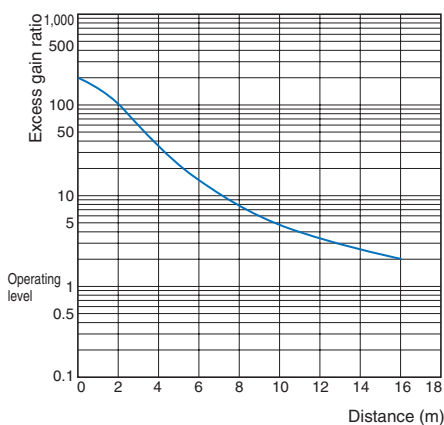
E3JM-DS70□4(T)



Excess Gain Ratio vs. Set Distance

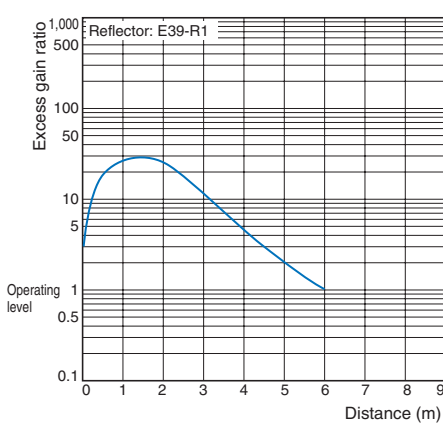
Through-beam

E3JM-10□4(T)-N

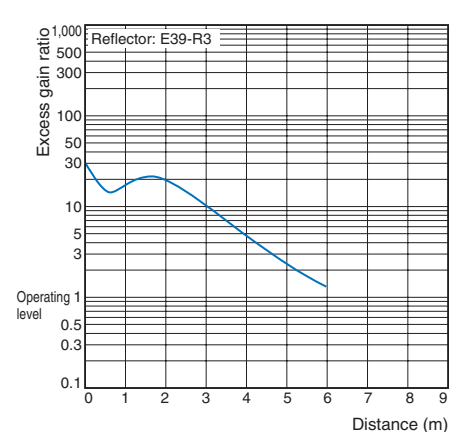


Retro-reflective

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

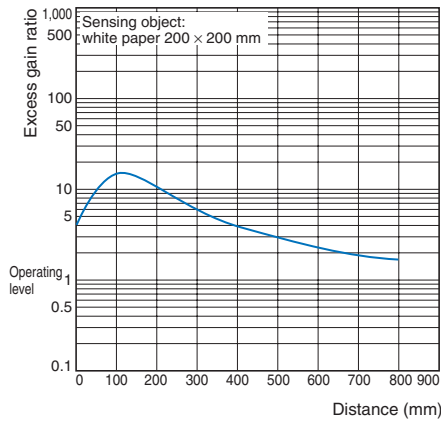


E3JM-R4□4(T) + E39-R3
(Optional Reflector)



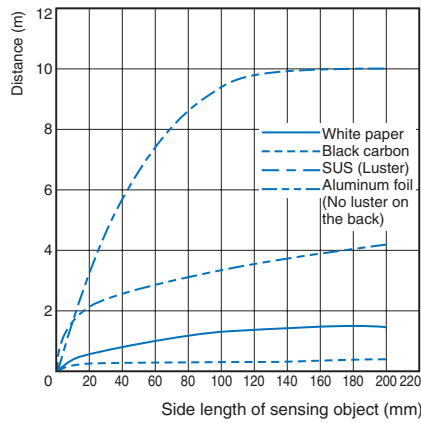
Diffuse-reflective

E3JM-DS70□4(T)



Sensing Object Size vs. Sensing Distance

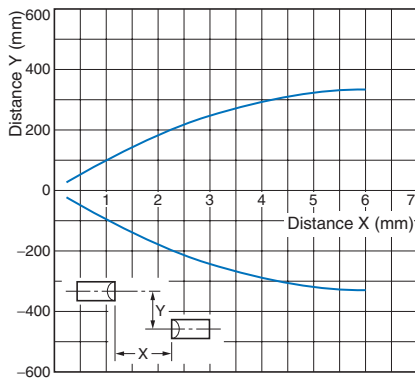
E3JM-DS70□4(T)



Parallel Operating Range

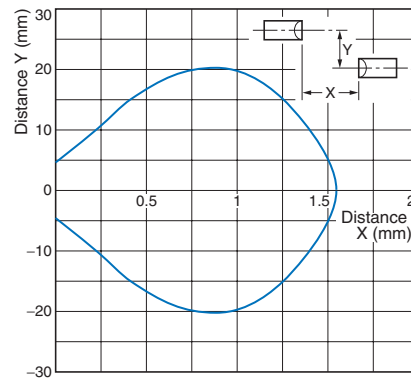
Through-beam

E3JK-5□□-N



E3JK-5□□-N + E39-S39 (Optional Slit)

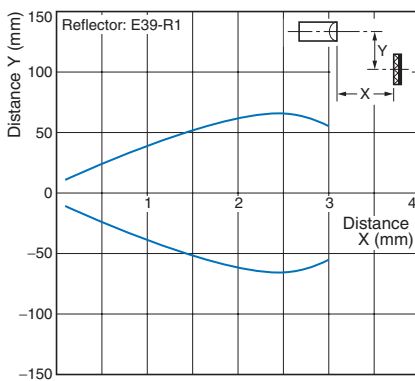
(A Slit is mounted to the Emitter and Receiver.)



Retro-reflective

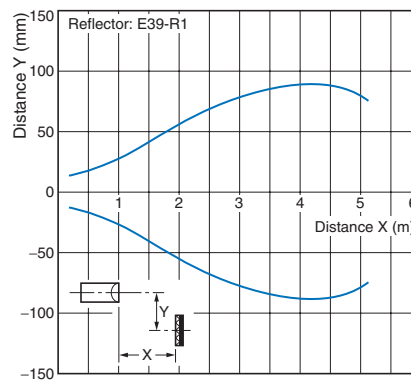
E3JK-R2□□ + E39-R1

(Supplied Reflector)



E3JK-R4□□ + E39-R1

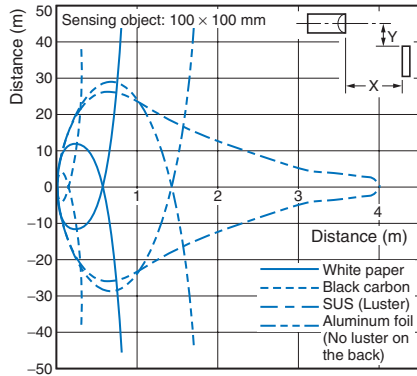
(Supplied Reflector)



Operating Range

Diffuse-reflective

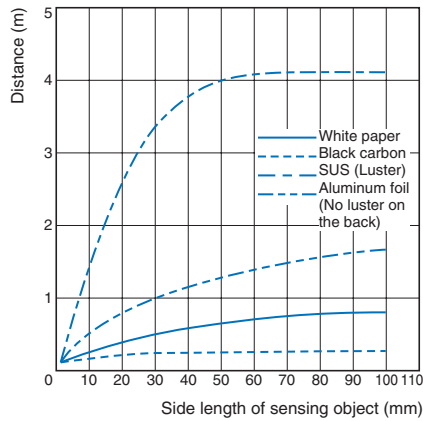
E3JK-DS30□□



Sensing Object Size vs. Sensing Distance

Diffuse-reflective

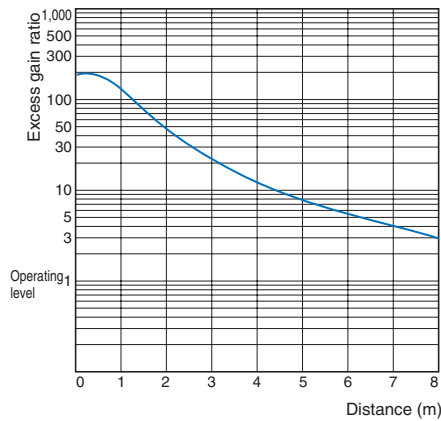
E3JK-DS30□□



Excess Gain Ratio vs. Set Distance

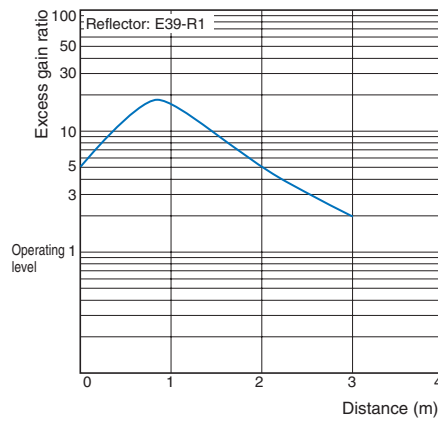
Through-beam

E3JK-5□□-N

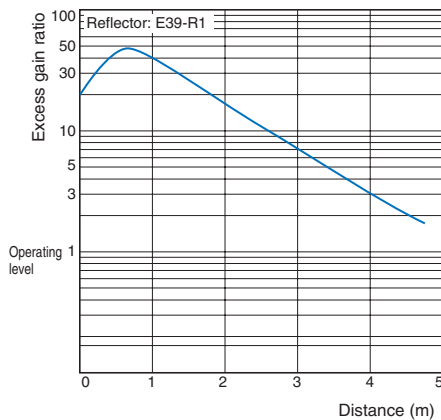


Retro-reflective

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

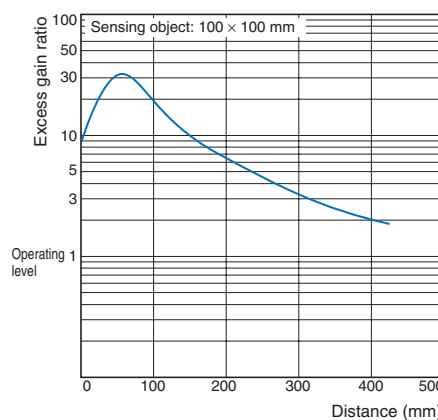


E3JK-R4□□ + E39-R1 (Supplied Reflector)



Diffuse-reflective

E3JK-DS30□□



I/O Circuit Diagrams

E3JM

Relay Output Models

Model	Timing chart	Output circuit
E3JM-10M4(T)-N *1 E3JM-R4M4(T) E3JM-DS70M4(T)	<p>Incident light No incident light Indicator (red) *2 L-ON (Ta) D-ON (Ta)</p> <p>ON OFF ON OFF ON OFF</p> <p>Refer to page 10 for information on Sensors with timers (T).</p>	<p>24 to 240 VAC 12 to 240 VDC Power Source No polarity Tb Tc Ta Contact output (Built-in Relay: G6C)</p>

DC SSR Output Models

Model	Timing chart	Output circuit
E3JM-10S4(T)-N *1 E3JM-R4S4(T) E3JM-DS70S4(T)	<p>Incident light No incident light Indicator (red) *2 L-ON (Ta) D-ON (Ta)</p> <p>ON OFF ON OFF ON OFF</p> <p>Refer to page 10 for information on Sensors with timers (T).</p>	<p>24 to 240 VAC 12 to 240 VDC Power Source No polarity L/ON NO I1 D/ON NC I2 COM 48 VDC max. $I_1 + I_2 < 100 \text{ mA}$</p>

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

*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 always E3JM-10L-N. Add a "D" to get the model number of the Receiver (example: E3JM-10DM4-N). Confirm the model numbers of the Emitter and Receiver in *Ordering Information*.

*2. This is the light indicator on Sensors without a timer and the operation indicator on Sensors with a timer.

E3JK

Relay Output Models

Model	Timing chart	Output circuit
E3JK-5M1-N * E3JK-5M2-N *	<p>Incident light No incident light Light indicator (red) L-ON (Ta) D-ON (Ta)</p> <p>ON OFF ON OFF ON OFF</p>	<p>24 to 240 VAC 12 to 240 VDC Power Source No polarity Brown Blue White Black Gray Tc Tb Ta Contact output (Built-in Relay: G6C)</p>

DC SSR Output Models

Model	Timing chart	Output circuit
E3JK-5S3-N * E3JK-R2S3 E3JK-R4S3 E3JK-DS30S3	<p>Incident light No incident light Light indicator (red) L-ON output D-ON output</p> <p>ON OFF ON OFF ON OFF</p>	<p>24 to 240 VAC 12 to 240 VDC Power Source No polarity Brown Blue D/ON Gray I1 L/ON Black I2 White 48 VDC max. $I_1 + I_2 < 100 \text{ mA}$</p> <p>Note: The output stage leakage currents are 0.1 mA max., respectively.</p>

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□□-N 2M) are for sets that include both the Emitter and Receiver.

The model number of the Emitter is always E3JK-5L-N 2M. Add a "D" to get the model number of the Receiver (example: E3JK-5DM1-N 2M). Confirm the model numbers of the Emitter and Receiver in *Ordering Information*.

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	<p>MODE 0 ↔ 1</p> <p>D-ON <input type="checkbox"/> L-ON <input checked="" type="checkbox"/></p> <p>↑</p> <p>Operation selector</p>	<p>MODE 0 ↔ 1</p> <p>D-ON <input type="checkbox"/> L-ON <input checked="" type="checkbox"/> ← Light-ON, Relay ON, DC output switching element ON</p> <p>MODE 0 ↔ 1</p> <p>D-ON <input type="checkbox"/> L-ON <input checked="" type="checkbox"/> ← Dark-ON, Relay ON, DC output switching element ON</p>													
Models with timer	<p>MODE 0 ↔ 1</p> <p>D-ON <input type="checkbox"/> L-ON <input checked="" type="checkbox"/></p> <p>SW1 <input type="checkbox"/> SW2 <input checked="" type="checkbox"/></p> <p>Operation Selector</p> <p>Selector switch for timer mode</p>	<table border="1"> <thead> <tr> <th>ON-delay</th> <th>OFF-delay</th> <th>One-shot delay</th> </tr> </thead> <tbody> <tr> <td> <p>MODE 0 ↔ 1</p> <p>D-ON <input type="checkbox"/> L-ON <input checked="" type="checkbox"/></p> <p>SW1 <input type="checkbox"/> SW2 <input checked="" type="checkbox"/></p> <p>TIMER</p> <p>Both SW1 and SW2 at "0."</p> </td> <td> <p>MODE 0 ↔ 1</p> <p>D-ON <input type="checkbox"/> L-ON <input checked="" type="checkbox"/></p> <p>SW1 <input type="checkbox"/> SW2 <input checked="" type="checkbox"/></p> <p>TIMER</p> <p>Only SW2 at "1."</p> </td> <td> <p>MODE 0 ↔ 1</p> <p>D-ON <input type="checkbox"/> L-ON <input checked="" type="checkbox"/></p> <p>SW1 <input checked="" type="checkbox"/> SW2 <input type="checkbox"/></p> <p>TIMER</p> <p>Only SW1 at "1," which overrides either setting of SW2.</p> </td> </tr> </tbody> </table> <p>Note: The operation selector is the same as that for models without a timer.</p>	ON-delay	OFF-delay	One-shot delay	<p>MODE 0 ↔ 1</p> <p>D-ON <input type="checkbox"/> L-ON <input checked="" type="checkbox"/></p> <p>SW1 <input type="checkbox"/> SW2 <input checked="" type="checkbox"/></p> <p>TIMER</p> <p>Both SW1 and SW2 at "0."</p>	<p>MODE 0 ↔ 1</p> <p>D-ON <input type="checkbox"/> L-ON <input checked="" type="checkbox"/></p> <p>SW1 <input type="checkbox"/> SW2 <input checked="" type="checkbox"/></p> <p>TIMER</p> <p>Only SW2 at "1."</p>	<p>MODE 0 ↔ 1</p> <p>D-ON <input type="checkbox"/> L-ON <input checked="" type="checkbox"/></p> <p>SW1 <input checked="" type="checkbox"/> SW2 <input type="checkbox"/></p> <p>TIMER</p> <p>Only SW1 at "1," which overrides either setting of SW2.</p>	<table border="1"> <thead> <tr> <th>ON-delay</th> <th>OFF-delay</th> <th>One-shot delay</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	ON-delay	OFF-delay	One-shot delay			
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ON-delay	OFF-delay	One-shot delay													

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

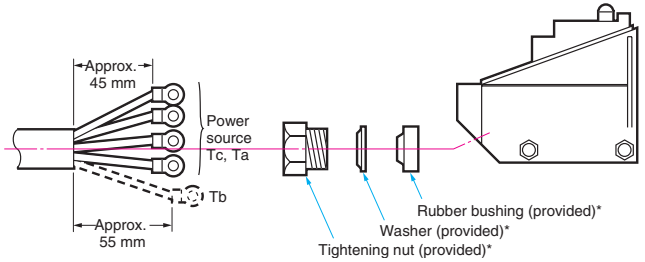
- We recommend connecting a cable with a conductor cross-section of 0.3 mm² and an outer diameter of 6 to 8 mm.
- Be sure to firmly tighten the cover in order to maintain waterproof and dustproof properties. The screw size of the conduit sockets is shown in the following table.

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)

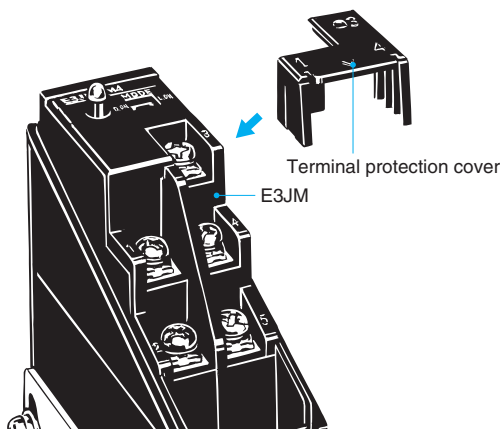
Round type	Fork type
<p>(After crimping)</p>	<p>(After crimping)</p>

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

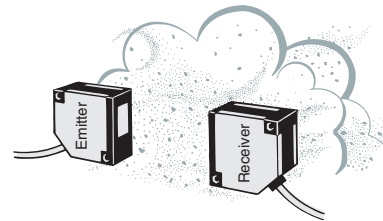
When using the DC SSR output model, the total of the load current for the Light-ON output (NO) and that for the Dark-ON (NC) should be 100 mA max. If the total exceeds 100 mA, the load short-circuit protection function will be activated (this function will be reset when the power of the Photoelectric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

● Others

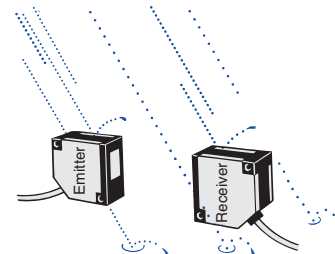
Ambient Conditions (Installation Area)

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.



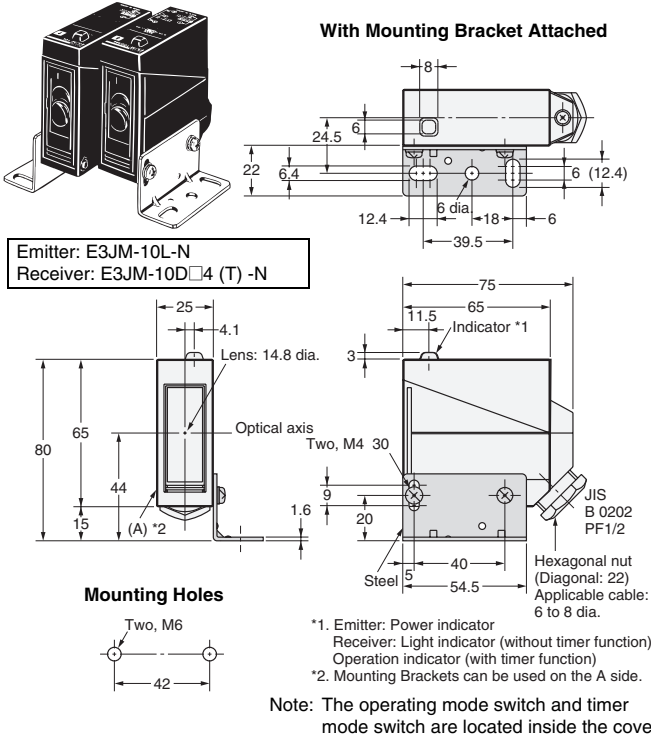
- Places where the E3JM is directly exposed to water, oil, or chemicals.



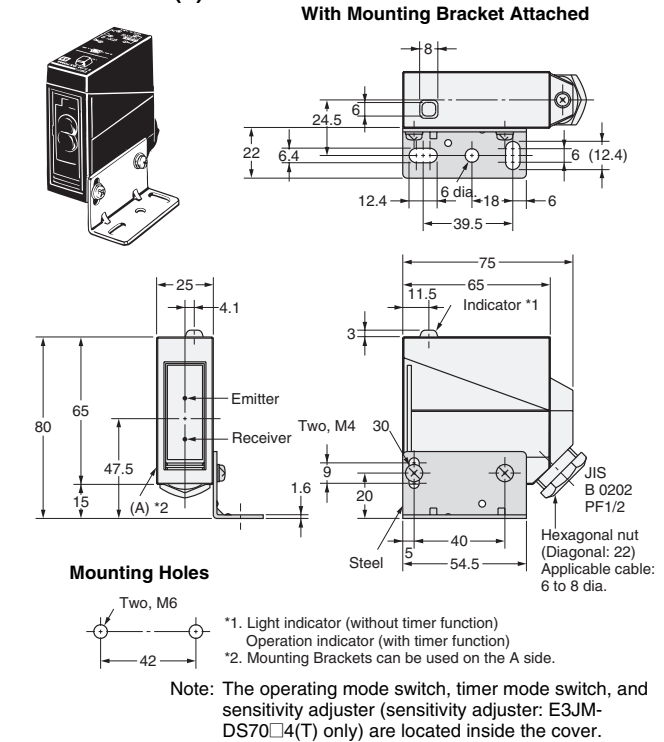
Dimensions

Sensors

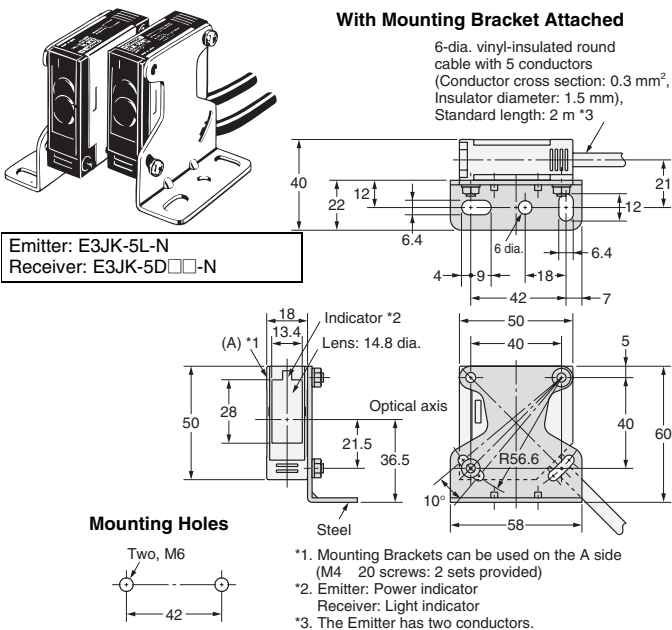
E3JM-10□4(T)-N *1



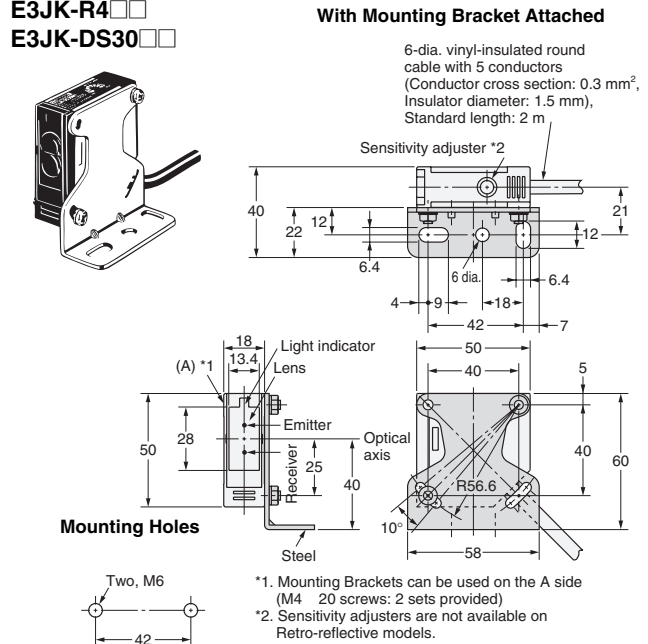
E3JM-R4□4(T) E3JM-DS70□4(T)



E3JK-5□□-N *2



E3JK-R2□□ E3JK-R4□□ E3JK-DS30□□



*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 always E3JM-10L-N. Add a "D" to get the model number of the Receiver (example: EE3JM-10DM4-N). Confirm the model numbers of the Emitter and Receiver in *Ordering Information*.

*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 always E3JK-5L-N 2M. Add a "D" to get the model number of the Receiver (example: E3JK-5DM1-N 2M). Confirm the model numbers of the Emitter and Receiver in *Ordering Information*.

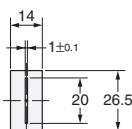
Accessories (Order separately)

Seal-type Long Slit (For E3JM/E3JK)

E39-S39



Materials: Polyester
0.1-mm thick



Mounting Brackets

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

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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.

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2012.8

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- Техническая поддержка проекта;
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