

## Model Contribute to Overall Cost Reduction



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

### E3JM Terminal Block Models

- Easy to wire and adjust.

Be sure to read *Safety Precautions* on page 6.

## Ordering Information

**Sensors** (Refer to *Dimensions* on page 8.)

Sensing method	Appearance	Connection method	Sensing distance	Operation mode	Output configuration	Functions	Model				
							Conduit socket thread size: PF1/2	Conduit socket thread size: PG13.5	Conduit socket thread size: 1/2-14NPT UL-listed models		
Through-beam (Emitter + Receiver) *1		Terminal block	10 m	Light-ON Dark-ON (switch selectable)	Relay	---	---	E3JM-10M4-NN	E3JM-10M4-G-NN	E3JM-10M4-NN-US	
							Timer	E3JM-10M4T-NN	E3JM-10M4T-G-NN	E3JM-10M4T-NN-US	
							DC SSR	---	E3JM-10S4-NN *2	E3JM-10S4-G-NN *2	E3JM-10S4-NN-US *2
								Timer	E3JM-10S4T-NN *2	E3JM-10S4T-G-NN *2	E3JM-10S4T-NN-US *2
Retro-reflective with MSR function E39-R1 (provided)		Terminal block	4 m	Light-ON Dark-ON (switch selectable)	Relay	---	---	E3JM-R4M4	E3JM-R4M4-G	E3JM-R4M4-US	
							Timer	E3JM-R4M4T	E3JM-R4M4T-G	E3JM-R4M4T-US	
							DC SSR	---	E3JM-R4S4 *2	E3JM-R4S4-G *2	E3JM-R4S4-US *2
								Timer	E3JM-R4S4T *2	E3JM-R4S4T-G *2	E3JM-R4S4T-US *2
Diffuse-reflective		Terminal block	700 mm	Light-ON Dark-ON (switch selectable)	Relay	---	---	E3JM-DS70M4	E3JM-DS70M4-G	E3JM-DS70M4-US	
							Timer	E3JM-DS70M4T	E3JM-DS70M4T-G	E3JM-DS70M4T-US	
							DC SSR	---	E3JM-DS70S4 *2	E3JM-DS70S4-G *2	E3JM-DS70S4-US *2
								Timer	E3JM-DS70S4T *2	E3JM-DS70S4T-G *2	E3JM-DS70S4T-US *2

\*1. Through-beam Sensors are sold in sets that include both the Emitter and Receiver. An order for the Emitter or Receiver alone cannot be accepted.

\*2. Have been discontinued at December 2023.

Note: Tightening nuts, washers, and rubber bushings are not provided with UL-listed models.

## 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 8.)

Slit width	Sensing distance	Minimum detectable object (reference value)	Model	Quantity	Remarks
1 mm × 20 mm	E3JM-10□4(T)-NN	1.2 m	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)-NN, E3JM-10□4(T)-G-NN and E3JM-10□4(T)-NN-US Models.

**Reflectors** (A Reflector is required for each Retro-reflective Sensor.)

The E39-R1 Reflector is provided with the Sensor. Order other Reflectors 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), E3JM-R4□4(T)-G and E3JM-R4□4(T)-US Models.



Note: Refer to *Reflectors* on E39-L/E39-S/E39-R on your OMRON website 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)

## 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
	<b>E39-L53</b>	1	Provided with the E3JM.
	<b>E39-L51</b>	1	Height of optical axis can be adjusted.

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](#) on your OMRON website for details.

## Ratings and Specifications

Sensing method		Through-beam model	Retro-reflective model (with MSR function)	Diffuse-reflective model
Item	Model	E3JM-10□4(T)-NN E3JM-10□4(T)-G-NN E3JM-10□4(T)-NN-US	E3JM-R4□4(T) E3JM-R4□4(T)-G E3JM-R4□4(T)-US	E3JM-DS70□4(T) E3JM-DS70□4(T)-G E3JM-DS70□4(T)-US
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 (940 nm)
Power supply voltage		Relay output (E3JM-□□M4 (T)(-□) model): 24 to 240 VDC±10%, ripple (p-p): 10% max. 100 to 240 VAC±10%, 50/60 Hz DC SSR output (E3JM-□□S4 (T)(-□) model): 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 W max. Receiver 2 W max.)	2 W max.	
	AC	3 W max. (Emitter 1 W max. Receiver 2 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 <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		
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)		

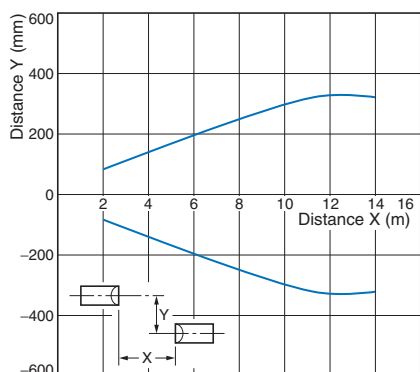
\*The timer cannot be disabled for models with timer functions (E3JM-□□□4T(-□)).

## Engineering Data (Reference Value)

### Parallel Operating Range

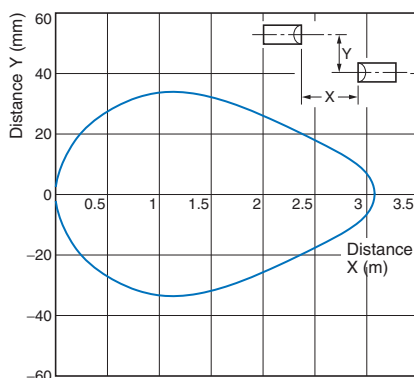
#### Through-beam

E3JM-10□4(T)-NN



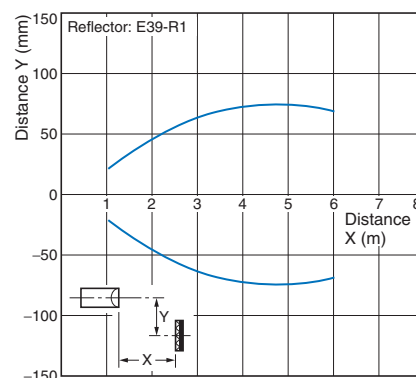
#### Through-beam

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



#### Retro-reflective

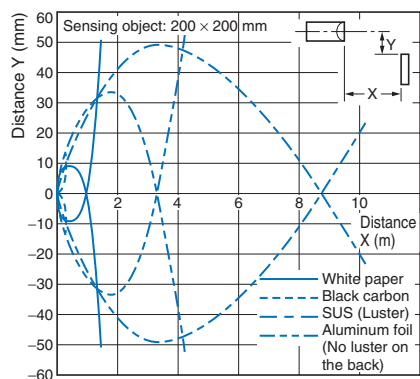
E3JM-R4□4(T) + E39-R1  
(Supplied Reflector)



### Operating Range

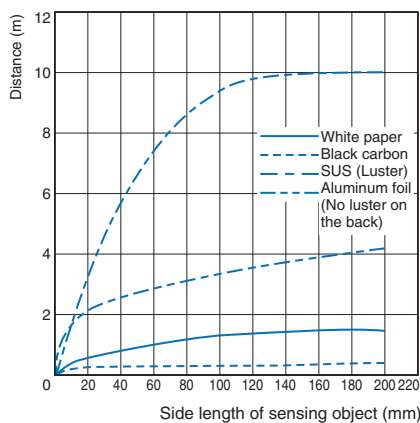
#### Diffuse-reflective

E3JM-DS70□4(T)



### Sensing Object Size vs. Sensing Distance

E3JM-DS70□4(T)



## I/O Circuit Diagrams

### Relay Output Models

Model	Timing chart	Output circuit
E3JM-10M4(T)(-G)-NN(-US) E3JM-R4M4(T)(-G)(-US) E3JM-DS70M4(T)(-G)(-US)	<p>Incident light: ON (green bar), No incident light: OFF (white bar)</p> <p>Indicator (red) *: ON (green bar), OFF (white bar)</p> <p>L-ON (Ta): ON (green bar), OFF (white bar)</p> <p>D-ON (Ta): ON (green bar), OFF (white bar)</p> <p>Refer to page 6 for information on Sensors with timers (T).</p>	<p>100 to 240 VAC 24 to 240 VDC</p> <p>Power Source No polarity</p> <p>Photoelectric Sensor main circuit</p> <p>3 Tb 4 Tc 5 Ta</p> <p>Contact output</p> <p>(Built-in Relay: G6C)</p>

### DC SSR Output Models

Model	Timing chart	Output circuit
E3JM-10S4(T)(-G)-NN(-US) E3JM-R4S4(T)(-G)(-US) E3JM-DS70S4(T)(-G)(-US)	<p>Incident light: ON (green bar), No incident light: OFF (white bar)</p> <p>Indicator (red) *: ON (green bar), OFF (white bar)</p> <p>L-ON (Ta): ON (green bar), OFF (white bar)</p> <p>D-ON (Ta): ON (green bar), OFF (white bar)</p> <p>Refer to page 6 for information on Sensors with timers (T).</p>	<p>24 to 240 VAC 12 to 240 VDC</p> <p>Power Source No polarity</p> <p>Photoelectric Sensor main circuit</p> <p>Drive Circuit</p> <p>3 L/ON 4 D/ON</p> <p>Load I1 Load I2</p> <p>48 VDC max. I1+I2&lt;100 mA</p> <p>COM</p>

Note: Connect terminal 1 to any polarity and terminal 2 to the power supply because there is no polarity on the Emitter side.  
\* This is the light indicator on Sensors without a timer and the operation indicator on Sensors with a timer.

## 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.

● **Designing**

**Operation**

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

	Switch configuration	Switch selection	Timing charts												
<b>Models without timer</b>	<p>MODE 0 ↔ 1</p> <p>D-ON <input type="checkbox"/> L-ON <input checked="" type="checkbox"/></p> <p>Operation selector</p>	<p>MODE 0 ↔ 1</p> <p>D-ON <input checked="" type="checkbox"/> L-ON <input 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>													
<b>Models with timer</b>	<p>MODE 0 ↔ 1</p> <p>D-ON <input type="checkbox"/> L-ON <input checked="" type="checkbox"/></p> <p>TIMER <input type="checkbox"/> SW1 <input checked="" type="checkbox"/> SW2 <input 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>TIMER <input type="checkbox"/> SW1 <input checked="" type="checkbox"/> SW2 <input type="checkbox"/></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>TIMER <input type="checkbox"/> SW1 <input type="checkbox"/> SW2 <input checked="" type="checkbox"/></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>TIMER <input type="checkbox"/> SW1 <input checked="" type="checkbox"/> SW2 <input type="checkbox"/></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>TIMER <input type="checkbox"/> SW1 <input checked="" type="checkbox"/> SW2 <input type="checkbox"/></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>TIMER <input type="checkbox"/> SW1 <input type="checkbox"/> SW2 <input checked="" type="checkbox"/></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>TIMER <input type="checkbox"/> SW1 <input checked="" type="checkbox"/> SW2 <input type="checkbox"/></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 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.

● **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.

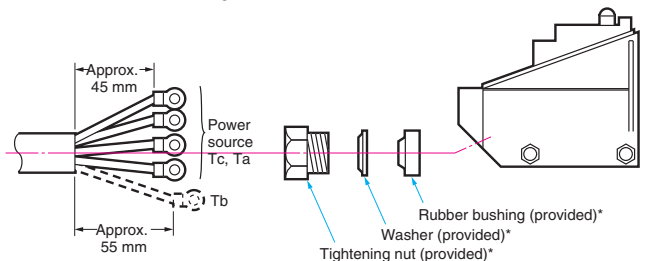
Model	Conduit socket thread size
E3JM-□	PF1/2
E3JM-□-G	PG13.5
E3JM-□-US	1/2-14NPT

- 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).

**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).

● **LED Safety**

E3JM-R4□4(T) is classified RISK GROUP 1, based on IEC 62471.

RISK GROUP 1
NOTICE IR emitted from this product. Use appropriate shielding or eye protection.

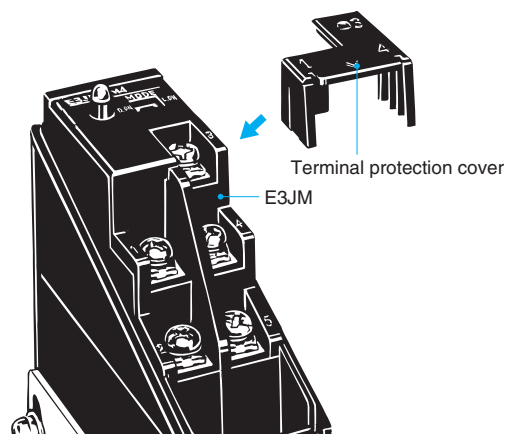
E3JM-10□4(T)-NN and E3JM-DS70□4(T) are classified RISK GROUP 2, based on IEC 62471.

RISK GROUP 2
CAUTION IR emitted from this product, Avoid eye exposure. Use appropriate shielding or eye protection.

● **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).



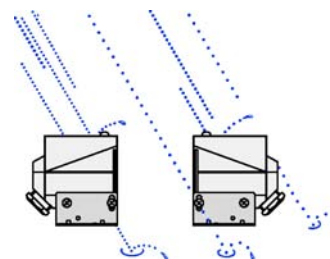
**Ambient Conditions (Installation Area)**

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

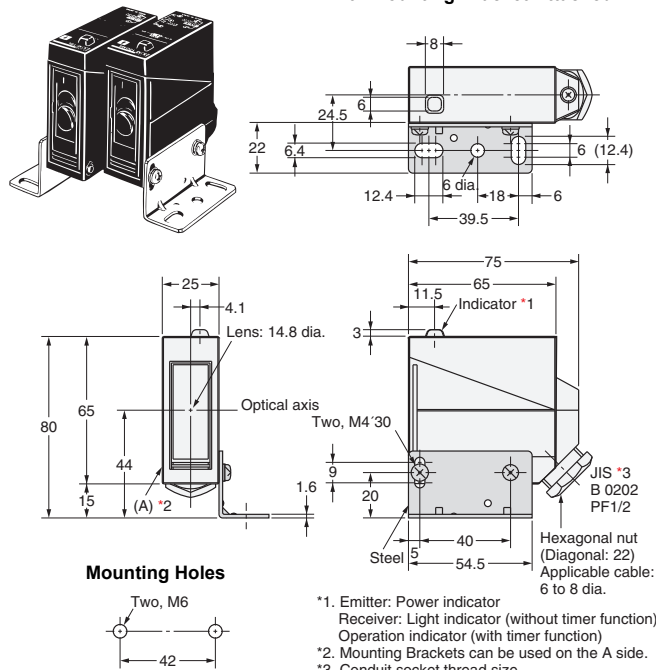
(Unit: mm)

Tolerance class IT16 applies to dimensions in this datasheet unless otherwise specified.

Sensors

E3JM-10□4(T)-NN  
E3JM-10□4(T)-G-NN  
E3JM-10□4(T)-NN-US

With Mounting Bracket Attached

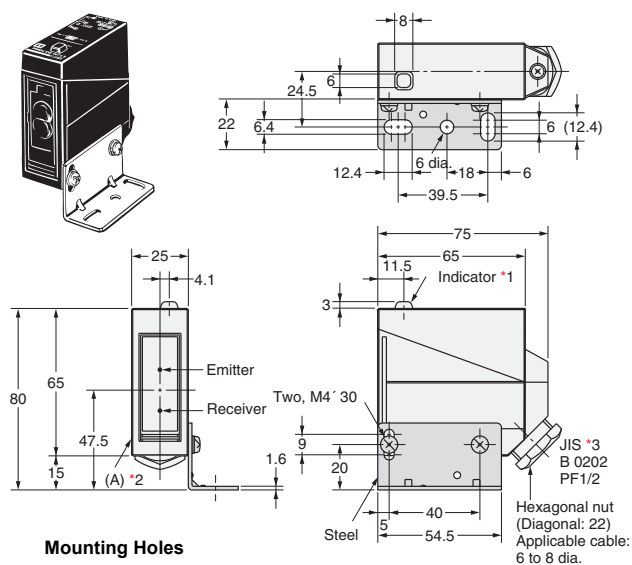


- \*1. Emitter: Power indicator  
Receiver: Light indicator (without timer function)  
Operation indicator (with timer function)
- \*2. Mounting Brackets can be used on the A side.
- \*3. Conduit socket thread size  
-G Models: PG13.5  
-US Models: 1/2-14NPT

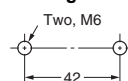
Note: The operating mode switch and timer mode switch are located inside the cover.

E3JM-R4□4(T)  
E3JM-R4□4(T)-G  
E3JM-R4□4(T)-US  
E3JM-DS70□4(T)  
E3JM-DS70□4(T)-G  
E3JM-DS70□4(T)-US

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.
- \*3. Conduit socket thread size  
-G Models: PG13.5  
-US Models: 1/2-14NPT

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

Note: Models numbers for Through-beam Sensors (E3JM-10□4(T)-(G)-NN-US)) are for sets that include both the Emitter and Receiver.

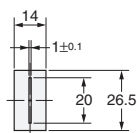
Accessories (Order separately)

Seal-type Long Slit

E39-S39



Materials: Polyester  
0.1-mm thick



Mounting Brackets

Refer to E39-L/E39-S/E39-R on your OMRON website for details.



## Terms and Conditions Agreement

### Read and understand this catalog.

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NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT(S) IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

### Programmable Products.

Omron Companies shall not be responsible for the user's programming of a programmable Product, or any consequence thereof.

### Performance Data.

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