# E3JM/E3JK

CSM\_E3JM\_E3JK\_DS\_E\_10\_2

## **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



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.)

Sensing method	Appearance	Connection method	Sensing d	istance	Operation mode			Model	
						Relay		E3JM-10M4-N Emitter: E3JM-10L-N Receiver: E3JM-10DM4-N	
Through- beam (Emitter +		Terminal block					Timer	E3JM-10M4T-N Emitter: E3JM-10L-N Receiver: E3JM-10DM4T-N	
Receiver) *				10 m	Light-ON	DC SSR		E3JM-10S4-N Emitter: E3JM-10L-N Receiver: E3JM-10DS4-N	
					Dark-ON (switch selectable)	Do con	Timer	E3JM-10S4T-N Emitter: E3JM-10L-N Receiver: E3JM-10DS4T-N	
Retro-		[			1	Relay		E3JM-R4M4	
reflective			4 m		Tiolay	Timer	E3JM-R4M4T		
with MSR function				4 111		DC SSR		E3JM-R4S4	
Turiction	E39-R1 (provided)				Timer	E3JM-R4S4T			
D:#	_					Relay		E3JM-DS70M4 E3JM-DS70M4T	
Diffuse- reflective			700 mm				Timer	E3JM-DS70N41	
	O a					DC SSR	Timer	E3JM-DS70S4T	

OMRON

#### E3JK

Sensing method	Appearance	Connection method	Sensing distance		Operation	Operation mode		Model												
Through-					Light-ON		Relay	E3JK-5M1-N 2M												
beam					Dark-ON		nelay	E3JK-5M2-N 2M												
(Emitter + Receiver) *1				5 m	Light-ON Dark-ON	Both selectable	DC SSR	E3JK-5S3-N 2M												
Datus valles				*2	Light-ON		E3	E3JK-R2M1 2M												
Retro-reflec- tive with MSR		(2 m)					2.5	2.5 m	Dark-ON		Relay	E3JK-R2M2 2M								
function				(3	m)	Light-ON Dark-ON	Both selectable	DC SSR	E3JK-R2S3 2M											
Datus valles	E39-R1				*2	Light-ON		Relay	E3JK-R4M1 2M											
Retro-reflec- tive without	(provided)			4 m	Dark-ON		nelay	E3JK-R4M2 2M												
MSR function	, ,																		(5 m) Light-ON Both Dark-ON selectable	DC SSR
					Light-ON		Relay	E3JK-DS30M1 2M												
Diffuse-	• ii —		∏300 mm		Dark-ON		пеіау	E3JK-DS30M2 2M												
reflective	<u></u>		[] 300 mm		Light-ON Dark-ON	Both selectable	DC SSR	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.

## **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 distan	се	Minimum detect- able object (reference value)	Model	Quantity	Remarks
1 mm × 20 mm	E3JM-10□4(T)-N	1.2 m	1-mm dia.	E39-S39	1 Slit each for the Emitter and	(Seal-type long slit) Can be used with the E3JM-10□4(T)-N
7 111111 × 20 111111	E3JK-5□□-N	0.7 m	1-mm dia.	203-309	Receiver (2 Slits total)	and E3JK-5□□-N Through-beam Models.

### 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	Sensi	Model	Quantity	Remarks	
	E3JM-R4□4(T)	4 m			Provided with the E3JM-R4□4(T)
Reflectors	E3JK-R2□□	2.5 m	E39-R1	1	Provided with the E3JK-R2□□ Provided with the E3JK-R4□□
	E3JK-R4□□	4 m			

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

<sup>\*1.</sup> Through-beam Sensors are sold in sets that include both the Emitter and Receiver.

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

## **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 he 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

S	Sensing method	Through-beam model	Retro-reflective model (with MSR function)	Diffuse-reflective model				
tem	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 $\times$ 200 mm): 700 mm				
Standard sensin	g object	Opaque: 14.8-mm dia. min.	Opaque: 75-mm dia. min.					
Differential trave	I	-		20% max. of sensing distance				
Directional angle	•	Both Emitter and Receiver 3° to 20°	1° to 5°					
Light source (wa	velength)	Infrared LED (950 nm)	Red LED (660 nm)	Infrared LED (950 nm)				
Power supply vo	Itage	12 to 240 VDC±10%, ripple (p-p): 1 24 to 240 VAC±10%, 50/60 Hz	0% max.					
Power con-	DC	3 W max. (Emitter 1.5 W max. Receiver 1.5 W max.)	2 W max.					
sumption	AC	3 W max. (Emitter 1.5 W max. Receiver 1.5 W max.)	2 W max.					
Control output		Relay output (E3JM-□□M4 (T) mo DC SSR output (E3JM-□□S4 (T) n Light-ON/Dark-ON selectable						
	Mechanical	50,000,000 times min. (switching fr	equency: 18,000 times/h)					
expectancy (relay output)	Electrical	100,000 times min. (switching frequency: 1,800 times/h)						
	Relay output	(E3JM-□□M4 (T) models) Operate or reset: 30 ms max.						
Response time DC SSR output		(E3JM-□□S4 (T) models) Operate or reset: 5 ms max.						
Sensitivity adjus	tment	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 illumina (Receiver side)	ition	Incandescent lamp: 3,000 lx max.						
Ambient tempera	ature range	Operating: -25°C to 55°C, Storage: -30°C to 70°C (with no icing or condensation)						
Ambient humidit	y range	Operating: 45% to 85% (with no condensation), Storage: 35% to 95% (with no condensation)						
nsulation resista	ance	20 MΩ min. at 500 VDC						
Dielectric streng	th	2,000 VAC, 50/60 Hz for 1 min.						
/ibration	Destruction	10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions						
esistance	Malfunction	10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions						
Shock	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 protec	tion	IEC 60529: IP66						
Connection method		Terminal block						
Weight (packed state)		Approx. 270 g Approx. 160 g						
	Case	ABS (Acrylonitril Butadiene Styrene)						
	Lens	Methacrylic resin						
NA -4: - I	Cover	Polycarbonate						
	Mounting Bracket	Iron						
Accessories		Mounting Bracket (with screw), Nut ing -US Models), Instruction manual						

<sup>\*</sup> The timer cannot be disabled for models with timer functions (E3JM-\( \square\) 4T).

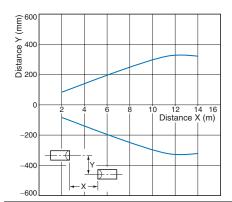
## E3JK

Sensi	ing method	Through-b	eam model		ctive model R function)		ctive model SR 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 o	Sensing distance 5 m		2.5 m (When u	sing E39-R1)	White paper (100 × 100 mm): 300 mm					
Standard sensing object		Opaque: 14.8-r	mm dia. min.	Opaque: 75-mi	m dia. min.					
Differenti	ial travel			-	-			20% max. of se	ensing distance	
Direction	al angle	Both Emitter an 20°	d Receiver 3° to	1° to 5°				-		
Light sou (wavelen		Infrared LED (9	950 nm)	Red LED (660	nm)			Infrared LED (9	950 nm)	
Power su voltage	ipply		±10%, ripple (p- <sub>l</sub> ±10%, 50/60 Hz	o): 10% max.						
Power con-	DC	3 W max. (Em max. Receive		2 W max.						
sump- tion	AC	3 W max. (Em		2 W max.						
Control o	output	Relay output SPDT, 250 VAC, 3 A max. (cosφ= 1) 5 VDC, 10 mA min.	DC SSR out- put, Negative: common 48 VDC, 100 mA max. Leakage cur- rent: 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 out- put, Negative: common 48 VDC, 100 mA max. Leakage cur- rent: 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 out- put, Nega- tive: common 48 VDC, 100 mA max. Leakage cur- rent: 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 ex- pectan- cy (relay	Mechani- cal	-	,	ng frequency: 18	•					
output)	Electrical			requency: 1,800	,		1_		I _	
Response Sensitivit		30 ms max.	10 ms max.	30 ms max.	5 ms max.	30 ms max.	5 ms max.	30 ms max.	5 ms max.	
adjustme		<del></del>							One-turn adjuster	
Ambient i tion (Receiver		Incandescent la	amp: 3,000 lx ma	ax.						
Ambient temperati	ure range	Operating: -25	°C to 55°C, Stor	age: -30°C to 70	0°C (with no icing	g or condensation	n)			
Ambient humidity	range	Operating: 45%	% to 85% (with no	condensation),	Storage: 35% to	95% (with no co	ondensation)			
Insulatior resistanc		20 MΩ min. at 500 VDC								
Dielectric	strength	1,500 VAC, 50/60 Hz for 1 min.								
Vibra- tion re-	Destruc- tion	10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions								
sistance										
Shock	Destruc- tion	500 m/s <sup>2</sup> 3 time	es each in X, Y,	and Z directions						
resis- tance	Malfunc- tion	100 m/s <sup>2</sup> 3 times each in X, Y, and Z di- rections	500 m/s <sup>2</sup> 3 times each in X, Y, and Z di- rections	100 m/s <sup>2</sup> 3 times each in X, Y, and Z di- rections	500 m/s <sup>2</sup> 3 times each in X, Y, and Z di- rections	100 m/s <sup>2</sup> 3 times each in X, Y, and Z di- rections	500 m/s <sup>2</sup> 3 times each in X, Y, and Z di- rections	100 m/s <sup>2</sup> 3 times each in X, Y, and Z di- rections	500 m/s <sup>2</sup> 3 times each in X, Y, and Z di- rections	
Degree of protection		IEC 60529 IP64								
Connection method		Pre-wired (standard length: 2 m)								
Weight (packed s	state)	Approx. 420 g		Approx. 250 g						
	Case	ABS (Acrylonit	ril Butadiene S	tyrene)						
Material	Lens	Methacrylic res	in	<u></u>			<u></u>			
	Mounting Bracket	Iron								
Accessor	ries	Mounting Brack	ket (with screws)	, Nuts, Instruction	n manual, Refle	ctor (Retro-reflec	ctive Models only	<i></i>		

## **Engineering Data (Reference Value)**

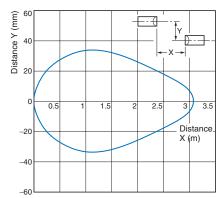
#### **Parallel Operating Range**

## Through-beam E3JM-10□4(T)-N

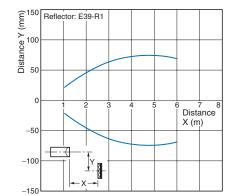


## Through-beam

## E3JM-10□4(T)-N + E39-S39 (Optional Slit) E3JM-R4□4(T) + E39-R1 (A Slit is mounted to the Emitter and Receiver.) (Supplied Reflector)



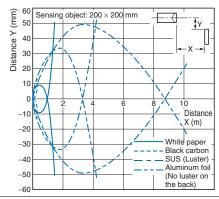
#### Retro-reflective



#### **Operating Range**

### Diffuse-reflective

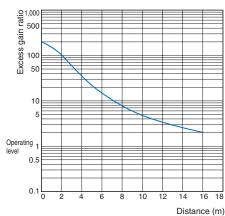
### E3JM-DS70 □ 4(T)



### **Excess Gain Ratio vs. Set Distance**

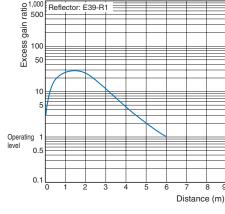
## Through-beam

## E3JM-10□4(T)-N

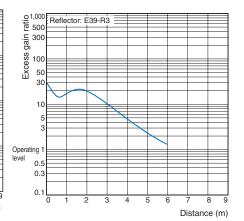


#### Retro-reflective

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

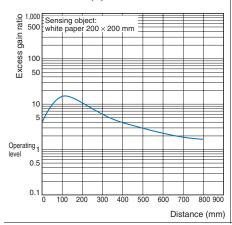


## E3JM-R4□4(T) + E39-R3 (Optional Reflector)



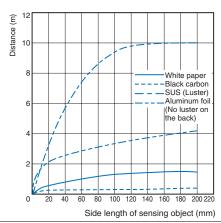
6

# Diffuse-reflective E3JM-DS70□4(T)



### **Sensing Object Size vs. Sensing Distance**

## E3JM-DS70□4(T)

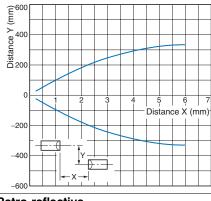


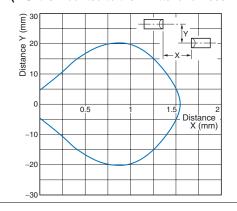
## **Parallel Operating Range**

## Through-beam

E3JK-5□□-N

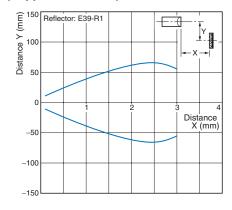
# E3JK-5□□-N + E39-S39 (Optional Slit) (A Slit is mounted to the Emitter and Receiver.)



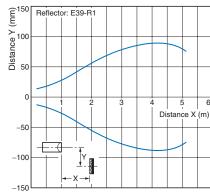


### Retro-reflective

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



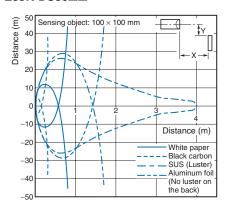
E3JK-R4□□ + E39-R1 (Supplied Reflector)



## **Operating Range**

## Diffuse-reflective

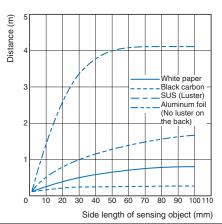
## E3JK-DS30□□



## **Sensing Object Size vs. Sensing Distance**

#### Diffuse-reflective

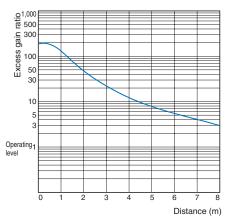
## E3JK-DS30□□



#### **Excess Gain Ratio vs. Set Distance**

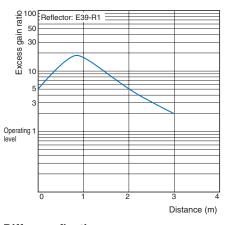
#### Through-beam

### E3JK-5□□-N



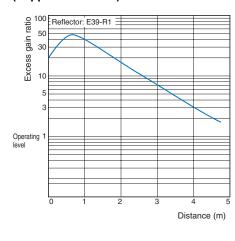
#### Retro-reflective

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

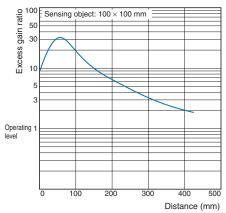


## Diffuse-reflective

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



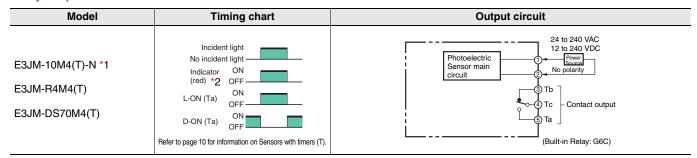
## E3JK-DS30□□



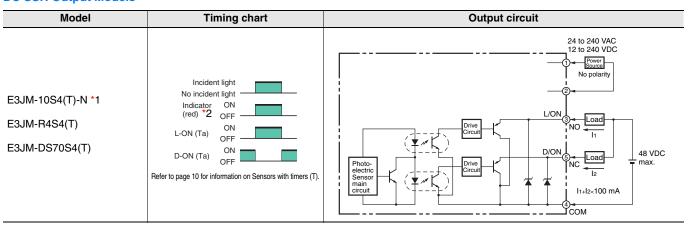
## I/O Circuit Diagrams

#### **E3JM**

#### **Relay Output Models**



#### **DC SSR Output Models**

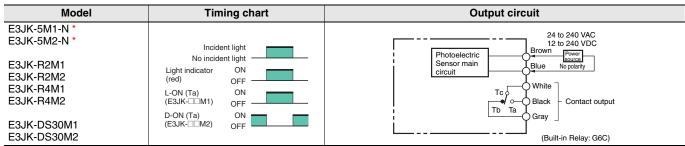


Note: Connect terminal 1 to any polarity and terminal 2 to the power supply because there is no polarity on the Emitter side.

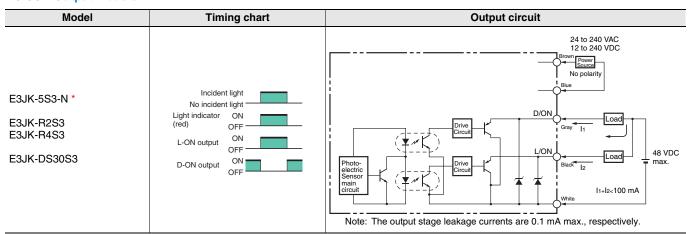
\*1. Models numbers for Through-beam Sensors (E3JM-10□4(T)-N) are for sets that include both the Emitter and Receiver.

#### E3JK

## **Relay Output Models**



#### **DC SSR Output Models**



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 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.

<sup>\*2.</sup> This is the light indicator on Sensors without a timer and the operation indicator on Sensors with a timer.

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.



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**

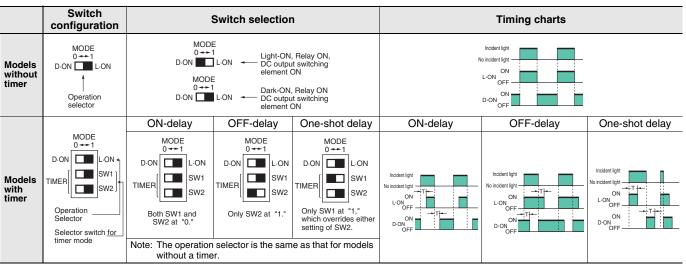
Do not use the product in atmospheres or environments that exceed product ratings.

#### E3JM

### Designing

#### **Operation**

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



#### **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 an surge suppressor to the load.

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

#### Wiring

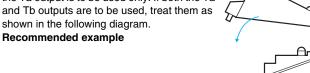
#### **Connecting and Wiring**

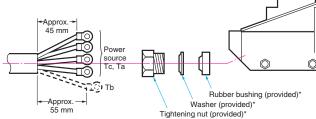
- We recommend connecting a cable with a conductor cross-section of 0.3 mm<sup>2</sup> and an outer diameter of 6 to 8 mm.
- Be sure to firmly tighten the cover in order to maintain waterproof and dustproof properties. The screw size of the conduit sockets is shown in the following table.

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.





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

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

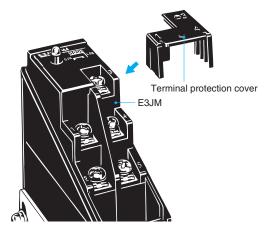
Round type	Fork type
7 max 7 max 7 max 19 max	7 max. 3.6 dia. min. 19 max.
(After crimping)	(After crimping)

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

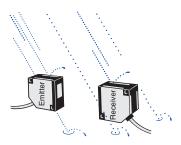
#### **Ambient Conditions (Installation Area)**

The E3JM will malfunction if installed in the following places.

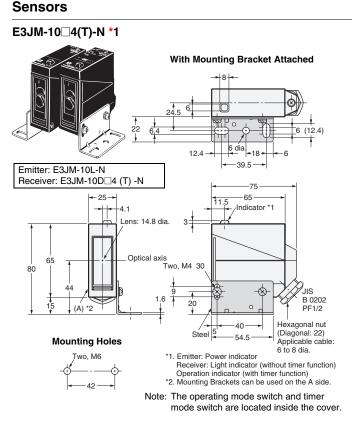
- Places where the E3JM is exposed to a dusty environment.
- Places where corrosive gases are produced.

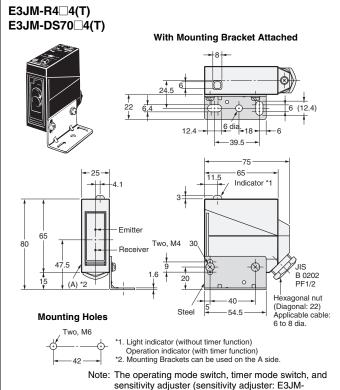


 Places where the E3JM is directly exposed to water, oil, or chemicals.

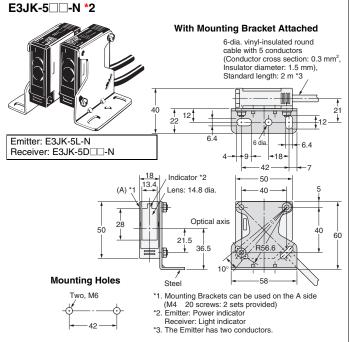


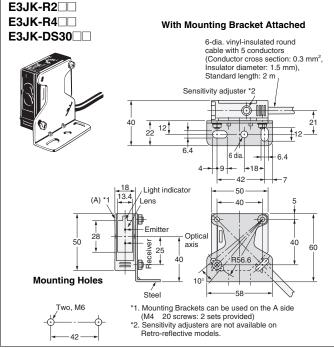
#### \_





DS70 4(T) only) are located inside the cover.



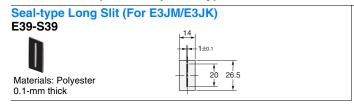


- \*1. Models numbers for Through-beam Sensors (E3JM-10□4(T)-N) are for sets that include both the Emitter and Receiver.

  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)



### **Mounting Brackets**

Refer to E39-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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### **Application Considerations**

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- Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this catalog.
- Nuclear energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
- 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.

NEVER USE THE PRODUCTS FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCTS ARE PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

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## **Disclaimers**

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## **DIMENSIONS AND WEIGHTS**

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#### PERFORMANCE DATA

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