

# 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	---	<b>E3JM-10M4-N</b> Emitter: E3JM-10L-N Receiver: E3JM-10DM4-N
								<b>E3JM-10M4T-N</b> Emitter: E3JM-10L-N Receiver: E3JM-10DM4T-N
Retro-reflective with MSR function	 E39-R1 (provided)	Terminal block				DC SSR	---	<b>E3JM-10S4-N</b> Emitter: E3JM-10L-N Receiver: E3JM-10DS4-N
								<b>E3JM-10S4T-N</b> Emitter: E3JM-10L-N Receiver: E3JM-10DS4T-N
Diffuse-reflective		Terminal block				Relay	---	<b>E3JM-R4M4</b>
			Relay			<b>E3JM-R4M4T</b>		
			DC SSR	---		<b>E3JM-R4S4</b>		
			DC SSR			<b>E3JM-R4S4T</b>		
						Relay	---	<b>E3JM-DS70M4</b>
			Relay			<b>E3JM-DS70M4T</b>		
						DC SSR	---	<b>E3JM-DS70S4</b>
						DC SSR		<b>E3JM-DS70S4T</b>

\* 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	<b>E3JK-5M1-N 2M</b> Emitter: E3JK-5L-N 2M Receiver: E3JK-5DM1-N 2M
				Dark-ON		<b>E3JK-5M2-N 2M</b> Emitter: E3JK-5L-N 2M Receiver: E3JK-5DM2-N 2M
				Light-ON Dark-ON	Both selectable	DC SSR
Retro-reflec- tive with MSR function		Pre-wired (2 m)		Light-ON	Relay	<b>E3JK-R2M1 2M</b>
				Dark-ON		<b>E3JK-R2M2 2M</b>
Retro-reflec- tive without MSR function	E39-R1 (provided)	Pre-wired (2 m)		Light-ON	Relay	<b>E3JK-R4M1 2M</b>
				Dark-ON		<b>E3JK-R4M2 2M</b>
Diffuse- reflective		Pre-wired (2 m)		Light-ON	Relay	<b>E3JK-DS30M1 2M</b>
				Dark-ON		<b>E3JK-DS30M2 2M</b>
				Light-ON Dark-ON	Both selectable	DC SSR

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 detect- able object (reference value)	Model	Quantity	Remarks
1 mm × 20 mm	E3JM-10□4(T)-N	1.2 m	<b>E39-S39</b>	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)	<b>E39-R1</b>	1	Provided with the E3JM-R4□4(T) Provided with the E3JK-R2□□ Provided with the E3JK-R4□□
	E3JK-R2□□			
	E3JK-R4□□			

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