

EE-SX47/67

Global Standard Slot-type photomicrosensors with 50- to 100-mA direct switching capacity.



- Series includes models that enable switching between dark-ON and light-ON operation.
- Response frequency as high as 1 kHz.
- Easy operation monitoring with bright light indicator.
- Wide operating voltage range: 5 to 24 VDC
- Models in which the light indicator turns ON for dark-ON operation are also available.
- A wide range of variations in eight different shapes.
- Flexible robot cable is provided as a standard feature. *2



Be sure to read *Safety Precautions* on page 5.

*1. Pre-wired Models are available only in the EE-SX67 Series.
*2. Only for Pre-wired Models.

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

Ordering Information

Connector

Infrared light









Appearance	Sensing method	Connect-ing method	Sensing distance		Output configuration	Indicator mode	Model	
							NPN output	PNP output
Standard 	Through-beam type (with slot)	Connector (4 poles)		5 mm (slot width)	Dark-ON/Light-ON (selectable) *3 *4	Incident light	EE-SX670	EE-SX670P
						No incident light	EE-SX670A	EE-SX670R
					Light-ON	Incident light	EE-SX470	---
L-shaped 					Dark-ON/Light-ON (selectable) *3 *4	Incident light	EE-SX671	EE-SX671P
						No incident light	EE-SX671A	EE-SX671R
					Light-ON	Incident light	EE-SX471	---
T-shaped, slot center 7 mm 					Dark-ON/Light-ON (selectable) *3 *4	Incident light	EE-SX672	EE-SX672P
						No incident light	EE-SX672A	EE-SX672R
					Light-ON	Incident light	EE-SX472	---
Close-mounting 	Dark-ON/Light-ON (selectable) *3 *4	Incident light	EE-SX673	EE-SX673P				
		No incident light	EE-SX673A	EE-SX673R				
	Light-ON	Incident light	EE-SX473	---				
Close-mounting 	Dark-ON/Light-ON (selectable) *3 *4	Incident light	EE-SX674	EE-SX674P				
		No incident light	EE-SX674A	EE-SX674R				
	Light-ON	Incident light	EE-SX474	---				
T-shaped, slot center 10 mm 	Dark-ON/Light-ON (selectable) *3 *4	Incident light	EE-SX675	EE-SX675P				
F-shaped 	Dark-ON/Light-ON (selectable) *3 *4	Incident light	EE-SX676	EE-SX676P				
R-shaped 	Dark-ON/Light-ON (selectable) *3 *4	Incident light	EE-SX677	EE-SX677P				

*3. Dark-ON when the L terminal of the connector is opened, and light-ON when the L terminal and positive (+) terminal are connected. Do not connect the L terminal to 0 V when using dark-ON operation. When using light-ON, it is useful to select the connector EE-1001-1. The L terminal and positive (+) terminal of this connector are connected in advance.

*4. If you do not use the L terminal wire ((2) pink) when you use a Connector with Cable for an EE-1006 or EE-1010-series Photomicrosensor, noise may affect the Photomicrosensor. To prevent the effects of noise, cut the unused L terminal wire at the base of the connector and wrap it with insulating tape to prevent it from coming in contact with other terminals.

Pre-wired Models

Infrared light

Appearance	Sensing method	Sensing distance		Output configuration	Indicator mode	Connecting method	Model	
							NPN output	PNP output
Standard 	Through-beam type (with slot)		5 mm (slot width)	Dark-ON/ Light-ON (selectable) *1 *2	Incident light	Pre-wired Models (1m)	EE-SX670-WR 1M	EE-SX670P-WR 1M
L-shaped 							EE-SX671-WR 1M	EE-SX671P-WR 1M
T-shaped, slot center 7 mm 							EE-SX672-WR 1M	EE-SX672P-WR 1M
Close-mounting 							EE-SX673-WR 1M	EE-SX673P-WR 1M
Close-mounting 							EE-SX674-WR 1M	EE-SX674P-WR 1M
T-shaped, slot center 10 mm 							EE-SX675-WR 1M	EE-SX675P-WR 1M
F-shaped 							EE-SX676-WR 1M	EE-SX676P-WR 1M
R-shaped 							EE-SX677-WR 1M	EE-SX677P-WR 1M

*1. Dark-ON operation can be used when the L terminal is left unconnected or Light-ON operation can be used when the L terminal and positive (+) terminal are connected to each other. Do not connect the L terminal to 0 V when using dark-ON operation.

*2. If you do not use the L terminal wire ((2) pink) when you use a Connector with Cable for an EE-1006 or EE-1010-series Photomicrosensor, noise may affect the Photomicrosensor. To prevent the effects of noise, cut the unused L terminal wire at the base of the connector and wrap it with insulating tape to prevent it from coming in contact with other terminals.

Accessories (Order Separately) Connector Models

Type	Cable length	Model	Remarks
Connector		EE-1001	L terminal and positive (+) terminal are already short-circuited.
		EE-1001-1	
		EE-1009 *	
	Connector with Cable	1 m	EE-1006 1M
			EE-1010 1M *
		2 m	EE-1006 2M
	EE-1010 2M *		
Connector with Robot Cable	1 m	EE-1010-R 1M *	
	2 m	EE-1010-R 2M *	
Connector Hold-down Clip		EE-1006A	Applicable Photomicrosensors For EE-SX670□ and 470□ only. (Can be used only with EE-1006 Connectors for the Photomicrosensors listed above.)

Note: For details, refer to the Photomicro Sensors Accessories on EE-□ which can be accessed from your OMRON website.

* EE-1009- or EE-1010-series Connectors have a builtin locking mechanism to prevent cable disconnection when only the cable is pulled. To remove the Connector from the Sensor, grip the top and bottom of the Connector firmly and push into the Sensor once before pulling out. The locking mechanism prevents the Connector from being removed by pulling on the cable only and enables removal only when the Connector (housing) is pulled.