# EE-SX47/67

CSM\_EE-SX47/67\_DS\_E\_13\_2

# 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	Connect-	Sensing distance	Output	Indicator mode	Мо	del		
Appearance	method	ing method	Sensing distance	configuration	maicator mode	NPN output	PNP output		
Standard				Dark-ON/Light-ON	Incident light	EE-SX670	EE-SX670P		
Trees.				(selectable) *3 *4	No incident light	EE-SX670A	EE-SX670R		
9111				Light-ON	Incident light	EE-SX470			
L-shaped				Dark-ON/Light-ON	Incident light	EE-SX671	EE-SX671P		
2200				(selectable) *3 *4	No incident light	EE-SX671A	EE-SX671R		
1111				Light-ON	Incident light	EE-SX471			
T-shaped,				Dark-ON/Light-ON	Incident light	EE-SX672	EE-SX672P		
slot center 7 mm				(selectable) *3 *4	No incident light	EE-SX672A	EE-SX672R		
				Light-ON	Incident light	EE-SX472	-		
Close-				Dark-ON/Light-ON (selectable) *3 *4	Incident light	EE-SX673	EE-SX673P		
mounting	Through-	Through-			No incident light	EE-SX673A	EE-SX673R		
999	beam type	Connector (4 poles)	5 mm	Light-ON	Incident light	EE-SX473	-		
Close-	(with slot)	(1 poloc)	(slot width	Dark-ON/Light-ON	Incident light	EE-SX674	EE-SX674P		
mounting				(selectable) *3 *4	No incident light	EE-SX674A	EE-SX674R		
e de la companya dela companya dela companya dela companya de la companya de la companya de la companya dela companya de la companya de la companya de la companya dela comp				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

<sup>\*3.</sup> 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.

<sup>\*4.</sup> 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

	Sensing Consinu distance		nsing Output Indicator	Connecting	Model		
Appearance	method	Sensing distance	configura- tion	mode	method	NPN output	PNP output
Standard						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	Through- beam	5 mm	Dark-ON/ Light-ON	Incident	Pre-wired	EE-SX673-WR 1M	EE-SX673P-WR 1M
Close- mounting	type (with slot)	(slot widt	(selectable) *1 *2	light	Models (1m)	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

<sup>\*1.</sup> 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.

# Accessories (Order Separately) Connector Models

	Туре	Cable length	Model	Remarks
Connector	ſ		EE-1001	
			EE-1001-1	L terminal and positive (+) terminal are already short-circuited.
			EE-1009 *	
		1	EE-1006 1M	
	October 11 October	1 m	EE-1010 1M *	
Connector with Cable	2 m	EE-1006 2M		
		EE-1010 2M *		
	Connector with Robot	1 m	EE-1010-R 1M *	
Cable		2 m	EE-1010-R 2M *	
Connector	r 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.

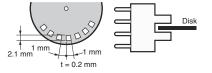
<sup>\*2.</sup> If you do not use the L terminal wire ((2) pink) when you use a Connector with Cable for an EE-1006 or EE-1010-series Photomicrosensor, noise may affect the Photomicrosensor. To prevent the effects of noise, cut the unused L terminal wire at the base of the connector and wrap it with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

<sup>\*</sup> 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.

# **Ratings and Specifications**

		Туре	Standard	L-shaped	T-shaped, slot center 7 mm	Close-n	nounting	T-shaped, slot center 10 mm	F-shaped	R-shaped
	NPN models	Connector models	EE-SX670 EE-SX670A EE-SX470	EE-SX671 EE-SX671A EE-SX471	EE-SX672 EE-SX672A EE-SX472	EE-SX673 EE-SX673A EE-SX473	EE-SX674 EE-SX674A EE-SX474	EE-SX675	EE-SX676	EE-SX677
	illoueis	Pre-wired models		EE-SX671- WR	EE-SX672- WR	EE-SX673- WR	EE-SX674- WR	EE-SX675- WR	EE-SX676- WR	EE-SX677- WR
	PNP	Connector models		EE-SX671P EE-SX671R	EE-SX672P EE-SX672R	EE-SX673P EE-SX673R	EE-SX674P EE-SX674R	EE-SX675P	EE-SX676P	EE-SX677P
Item	models	Pre-wired models		EE-SX671P- WR	EE-SX672P- WR	EE-SX673P- WR	EE-SX674P- WR	EE-SX675P- WR	EE-SX676P- WR	EE-SX677P- WR
Sensi	ng distan	ce	5 mm (slot widtl	nm (slot width)						
Sensi	ng object		Opaque: 2 × 0.8	3 mm min.						
Differ	ential dist	ance	0.025 mm							
Light	source		Infrared LED wi	th a peak wavele	ength of 940 nm					
Indica	ator *1		Light indicator (red) (turns ON when light is interrupted for models with A or R suffix)							
Suppl	ly voltage		5 to 24 VDC ±10%, ripple (p-p): 10% max.							
Curre	nt consur	nption	12 mA max. (Connector models, L terminal open), 35 mA max. (NPN pre-wired models), 30 mA max. (PNP pre-wired models)						d models)	
Contr	ol output		100 mA load current with a residual voltage of 0.8 V max. 40 mA load current with a residual voltage of 0.4 V max. OFF current (leakage current): 0.5 mA max. PNP open collector: 5 to 24 VDC, 50 mA max. 50 mA load current with a residual voltage of 1.3 V max. OFF current (leakage current): 0.5 mA max.							
Prote	ction circ	uits	Load short circu	it protection (Co	nnector models)	, No circuit protec	ction (Pre-wired r	models)		
Respo	onse frequ	iency *2	1 kHz min. (3 kl	Hz average)						
Ambi	ent illumir	nation	1,000 lx max. w	ith fluorescent liq	ght on the surfac	e of the receiver.				
Ambi	ent tempe	rature range	Operating: -25	to +55°C, Storag	je: -30 to +80°C	(with no icing or	condensation)			
Ambi	ent humid	ity range	Operating: 5% t	to 85%, Storage:	5% to 95% (with	no icing or cond	lensation)			
Vibrat	tion resist	ance		to 2,000 Hz (pea amplitude for 2 h		100 m/s²) each in X, Y, and	d Z directions			
Shock	k resistan	ce		0 m/s <sup>2</sup> for 3 times	s each in X, Y, a	nd Z directions				
Degre	e of prote	ection	IEC60529 IP50							
Conn	ecting me	thod	Connector Models (direct soldering possible), Pre-wired Models (Standard cable length: 1 m), Models with Connectors (Standard cable length: 0.1 m)							
Wei-	Connect	or models	Approx. 3.1 g	Approx. 3 g	Approx. 2.4 g	Approx. 2.3 g	Approx. 3 g	Approx. 2.7 g	Approx. 2.2 g	Approx. 2.2 g
ght	Pre-wire	d models	, i i	11	Approx. 17.8 g	Approx. 16.8 g	Approx. 17.1 g	Approx. 18.3 g	Approx. 16.9 g	Approx. 16.9 g
Ма-	Case		Polybutylene ph	nthalate (PBT)						
teri-	Cover		Polycarbonate							
al	Emitter/r	eceiver	. Siyouibonate							

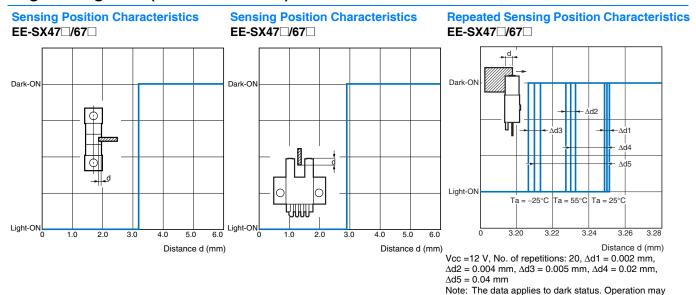
<sup>\*1.</sup> The indicator is a GaP red LED (peak wavelength: 690 nm).
\*2. The response frequency was measured by detecting the rotating disk shown at the right.



be affected by external light interference or light

coming through the sensing object.

# **Engineering Data (Reference Value)**



# I/O Circuit Diagrams

# NPN Output

Model	Output configuration	Timing charts	Terminal connections	Output circuit
EE-SX67□	Light-ON	Incident Interrupted Light indicator ON (red) OFF Output ON transistor OFF Load Operates (e.g., relay) Releases	Short-circuited between ① terminal and positive ① terminal	EE-SX67□ EE-SX67□A  Light indicator (red)  Load
EE-SX67□-WR	Dark-ON	Incident Interrupted Light indicator ON (red) OFF Output ON transistor OFF Load Operates (e.g., relay) Releases	Open between  ① terminal and positive ⊕ terminal *1 *2	*The terminal arrangement depends on the model. Check the dimensional diagrams.
EE-SX670A EE-SX671A EE-SX672A	Light-ON	Incident Interrupted Light indicator ON (red) OFF Output ON transistor OFF Load Operates (e.g., relay) Releases	Short-circuited between ① terminal and positive ① terminal	EE-SX67 - WR  Light indicator (red)  OUT  OUT  T 24 VDC
EE-SX673A EE-SX674A	Dark-ON	Incident Interrupted Light indicator ON (red) OFF Output ON transistor OFF Load Operates (e.g., relay) Releases	Open between  ① terminal and positive ⊕ terminal *1 *2	*The terminal arrangement depends on the model. Check the dimensional diagrams.
EE-SX470 EE-SX471 EE-SX472 EE-SX473 EE-SX474	Light-ON	Incident Interrupted Light indicator ON (red) OFF Output ON transistor OFF Load Operates (relay) Releases		Light indicator  (red)  Main  circuit

<sup>\*1.</sup> 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.

# **PNP Output**

Model	Output configuration	Timing charts	Terminal connections	Output circuit
EE-SX67□P	Light-ON	Incident Interrupted Light indicator ON (red) OFF Output transistor OFF Load Operates (relay) Releases	Short-circuited between ① terminal and positive ① terminal	
EE-SX67□P-WR	Dark-ON  Dopen between  terminal and positive terminal transistor  Load  Dopen between  terminal and positive terminal transistor  1 *2  Load  Dopen between	Main T24 VDC		
EE-SX670R EE-SX671R EE-SX672R	Light-ON	Incident Interrupted Light indicator ON (red) OFF Output ON transistor OFF Load Operates (e.g., relay) Releases	Short-circuited between ① terminal and positive ① terminal	*The terminal arrangement depends on the model. Check the dimensional diagrams.
EE-SX673R EE-SX674R	Dark-ON	Incident Interrupted Light indicator ON (red) OFF Output transistor OFF Load Operates (e.g., relay) Releases	Open between  ① terminal and positive ⊕ terminal  *1 *2	

<sup>\*1.</sup> Do not connect the L terminal to 0 V when using dark-ON operation.

# Safety Precautions

# Refer to Warranty and Limitations of Liability.



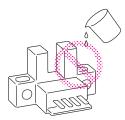
This product is not designed or rated for ensuring safety of persons either directly or indirectly. Do not use it for such purposes.



# **Precautions for Safe Use**

# Operating Environment

These Photomicrosensors have an IP50 (conforms to IEC) enclosure and do not have a water-proof or dust-proof structure. Therefore, do not use them in applications in which the sensor will be subjected to splashes from water, oil, or any other liquid. Liquid entering the Sensor may result in malfunction.



# **Precautions for Correct Use**

Make sure that this product is used within the rated ambient environment conditions.

# Installation

When direct soldering to the terminals, use the following guidelines.
 Soldering Conditions

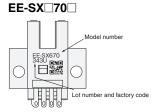
Item	Temper- ature	Permissible time	Remarks
Soldering iron	350°C max.	3 s max.	The portion between the base of the terminals and the position 1.5 mm from the terminal base must not be soldered.

 The terminal base uses a polycarbonate resin, which could be deformed by excessive soldering heat, resulting in damage to the product's functionality.

# Lot Number and Model Number Legend

In the following diagrams, 343U indicates the lot number and factory where the product was manufactured. Do not include this code with the model number when ordering.

The QR code on connector models is used by OMRON only.



<sup>\*2.</sup> 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.

# **Dimensions**

# Sensors

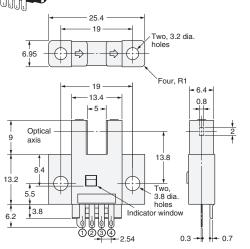
# EE-SX670/670P EE-SX670A/670R EE-SX470



# **Terminal Arrangement**

(1)	$\oplus$	Vcc
(2)	L	L*
(3)	OUT	OUTPUT
(4)	$\Theta$	GND (0 V)

\* Pin 2 is not used for the EE-SX470.



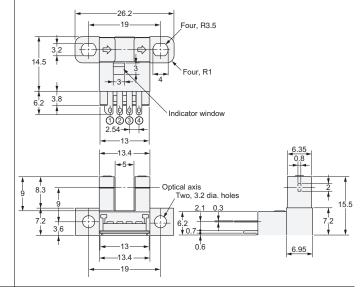
# EE-SX671/671P EE-SX671A/671R EE-SX471



# **Terminal Arrangement**

(1)	$\oplus$	Vcc
(2)	L	L*
(3)	OUT	OUTPUT
(4)	$\ominus$	GND (0 V)

\* Pin 2 is not used for the EE-SX471.



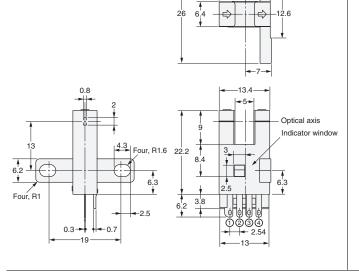
# EE-SX672/672P EE-SX672A/672R EE-SX472



# **Terminal Arrangement**

(1)	$\oplus$	Vcc
(2)	L	L*
(3)	OUT	OUTPUT
(4)		GND (0 V)

\* Pin 2 is not used for the EE-SX472.



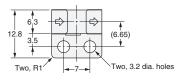
EE-SX673/673P EE-SX673A/673R EE-SX473

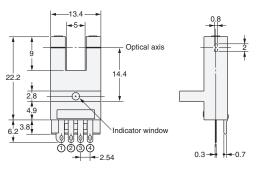


# **Terminal Arrangement**

(1)	$\oplus$	Vcc
(2)	L	L*
(3)	OUT	OUTPUT
(4)	$\ominus$	GND (0 V)

\* Pin 2 is not used for the EE-SX473.





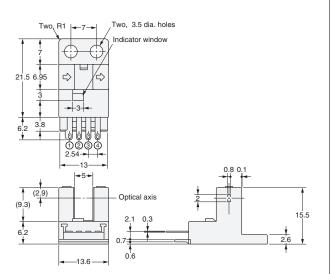
# EE-SX674/674P EE-SX674A/674R EE-SX474



# **Terminal Arrangement**

(1)	$\oplus$	Vcc
(2)	L	L*
(3)	OUT	OUTPUT
(4)	$\Theta$	GND (0 V)

\* Pin 2 is not used for the EE-SX474.

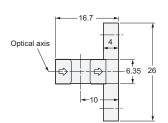


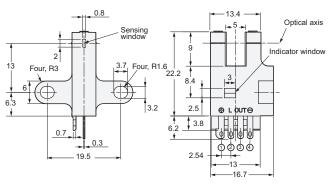
# EE-SX675/675P



# **Terminal Arrangement**

(1)	$\oplus$	Vcc
(2)	L	L
(3)	OUT	OUTPUT
(4)	$\ominus$	GND (0 V)



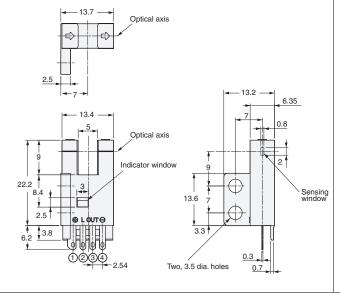


# EE-SX676/676P



# **Terminal Arrangement**

(1)	$\oplus$	Vcc
(2)	L	L
(3)	OUT	OUTPUT
(4)	$\Theta$	GND (0 V)

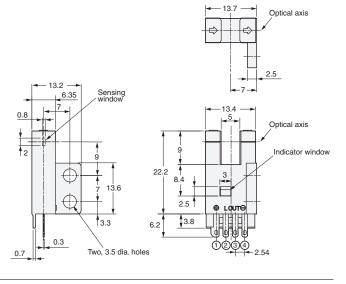


# EE-SX677/677P



# Terminal Arrangement

(1)	$\oplus$	Vcc
(2)	L	L
(3)	OUT	OUTPUT
(4)	$\Theta$	GND (0 V)



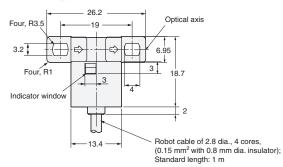
# **EE-SX670-WR/670P-WR**

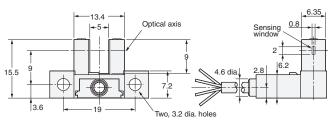
# **Terminal Arrangement** Brown Vcc Pink Blue GND (0 V) Black OUTPUT Four, R1 Optical axis Two, 3,2 dia, holes Optical axis 8.0 11.2 Sensing window 13.8 26.2 4.6 dia. 2 Two, 3.8 dia. holes Indicator window Robot cable of 2.8 dia., 4 cores, (0.15 mm<sup>2</sup> with 0.8 mm dia. insulator): Standard length: 1 m

# EE-SX671-WR/671P-WR

# **Terminal Arrangement**

Brown	Vcc
Pink	L
Blue	GND (0 V)
Black	OUTPUT



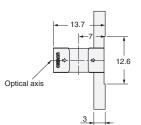


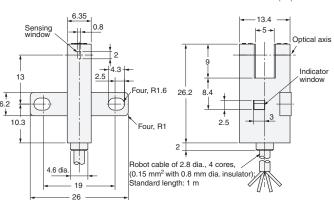
# EE-SX672-WR/672P-WR



# **Terminal Arrangement**

Brown	Vcc
Pink	L
Blue	GND (0 V)
Black	OUTPUT



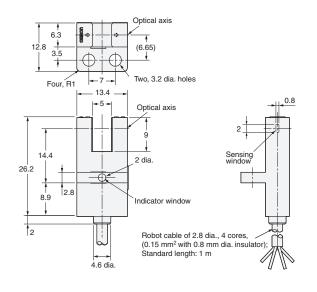


# EE-SX673-WR/673P-WR



# Terminal Arrangement

Brown	Vcc
Pink	L
Blue	GND (0 V)
Black	OUTPUT



# **EE-SX674-WR/674P-WR**

6.95

Standard length: 1 m

Optical axis

Robot cable of 2.8 dia., 4 cores, (0.15 mm² with 0.8 mm dia. insulator);

Two, 3.5 dia. holes

Optical axis 3

Indicator window

(2.9)

**Terminal Arrangement** 

Brown	Vcc
Pink	L
Blue	GND(0V)
Black	OUTPUT

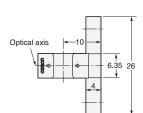
Brown	Vcc
Pink	L
Blue	GND(0V)
Black	OUTPUT

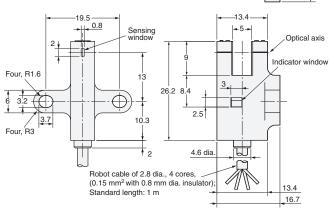
# EE-SX675-WR/675P-WR



# **Terminal Arrangement**

Brown	Vcc
Pink	L
Blue	GND(0V)
Black	OUTPUT





**EE-SX676-WR/676P-WR** 

<del>-</del>5→



# **Terminal Arrangement**

<u>►|| 0.8</u>

15.5

Sensing window,

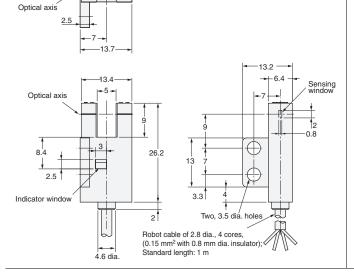
Brown	Vcc
Pink	L
Blue	GND(0V)
Black	OUTPUT

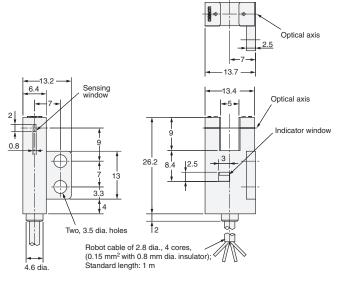
# **EE-SX677-WR/677P-WR**



# **Terminal Arrangement**

Brown	Vcc
Pink	L
Blue	GND(0V)
Black	OUTPUT





# Terms and Conditions Agreement

## Read and understand this catalog.

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