

# EE-SX47/67

## Photomicrosensor with 50- to 100-mA direct switching capacity for built-in application.

- 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.



## Ordering Information

### Connector

 Infrared light

| Appearance                                                                                                         | Sensing method                | Connecting method   | Sensing distance                                                                                      | Output configuration             | Indicator mode    | Model      |            |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------|-------------------------------------------------------------------------------------------------------|----------------------------------|-------------------|------------|------------|
|                                                                                                                    |                               |                     |                                                                                                       |                                  |                   | NPN output | PNP output |
| Standard<br>                    | Through-beam type (with slot) | Connector (4 poles) |  5 mm (slot width) | Dark-ON/Light-ON (selectable) *3 | Incident light    | EE-SX670   | EE-SX670P  |
|                                                                                                                    |                               |                     |                                                                                                       |                                  | No incident light | EE-SX670A  | EE-SX670R  |
|                                                                                                                    |                               |                     |                                                                                                       | Light-ON                         | Incident light    | EE-SX470   | EE-SX470P  |
| L-shaped<br>                    |                               |                     |                                                                                                       | Dark-ON/Light-ON (selectable) *3 | Incident light    | EE-SX671   | EE-SX671P  |
|                                                                                                                    |                               |                     |                                                                                                       |                                  | No incident light | EE-SX671A  | EE-SX671R  |
|                                                                                                                    |                               |                     |                                                                                                       | Light-ON                         | Incident light    | EE-SX471   | EE-SX471P  |
| T-shaped, slot center 7 mm<br>  |                               |                     |                                                                                                       | Dark-ON/Light-ON (selectable) *3 | Incident light    | EE-SX672   | EE-SX672P  |
|                                                                                                                    |                               |                     |                                                                                                       |                                  | No incident light | EE-SX672A  | EE-SX672R  |
|                                                                                                                    |                               |                     |                                                                                                       | Light-ON                         | Incident light    | EE-SX472   | EE-SX472P  |
| Close-mounting<br>              |                               |                     |                                                                                                       | Dark-ON/Light-ON (selectable) *3 | Incident light    | EE-SX673   | EE-SX673P  |
|                                                                                                                    |                               |                     |                                                                                                       |                                  | No incident light | EE-SX673A  | EE-SX673R  |
|                                                                                                                    |                               |                     |                                                                                                       | Light-ON                         | Incident light    | EE-SX473   | EE-SX473P  |
| Close-mounting<br>              |                               |                     |                                                                                                       | Dark-ON/Light-ON (selectable) *3 | Incident light    | EE-SX674   | EE-SX674P  |
|                                                                                                                    |                               |                     |                                                                                                       |                                  | No incident light | EE-SX674A  | EE-SX674R  |
|                                                                                                                    |                               |                     |                                                                                                       | Light-ON                         | Incident light    | EE-SX474   | EE-SX474P  |
| T-shaped, slot center 10 mm<br> |                               |                     |                                                                                                       | Dark-ON/Light-ON (selectable) *3 | Incident light    | EE-SX675   | EE-SX675P  |
| F-shaped<br>                    |                               |                     |                                                                                                       | Dark-ON/Light-ON (selectable) *3 | Incident light    | EE-SX676   | EE-SX676P  |
| R-shaped<br>                    |                               |                     |                                                                                                       | Dark-ON/Light-ON (selectable) *3 | 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 short-circuited. When used at light-ON, it is useful to select the connector EE-1001-1. The L terminal and positive (+) terminal of this connector are short-circuited in advance.

## Pre-wired Models, Models with Connectors

 Infrared light

| Appearance                                                                                                       | Sensing method                | Sensing distance                                                                  |                   | Output configuration                | Indicator mode | Connecting method             | Model          |                 |
|------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------|-------------------|-------------------------------------|----------------|-------------------------------|----------------|-----------------|
|                                                                                                                  |                               |                                                                                   |                   |                                     |                |                               | NPN output     | PNP output      |
| Standard<br>                    | Through-beam type (with slot) |  | 5 mm (slot width) | Dark-ON/<br>Light-ON (selectable) * | Incident light | Pre-wired Models (1m)         | EE-SX670-WR    | EE-SX670P-WR    |
| L-shaped<br>                    |                               |                                                                                   |                   |                                     |                | Models with connectors (0.1m) | EE-SX670-C1J-R | EE-SX670P-C1J-R |
| T-shaped, slot center 7 mm<br>  |                               |                                                                                   |                   |                                     |                | Pre-wired Models (1m)         | EE-SX671-WR    | EE-SX671P-WR    |
| Close-mounting<br>              |                               |                                                                                   |                   |                                     |                | Models with connectors (0.1m) | EE-SX671-C1J-R | EE-SX671P-C1J-R |
| Close-mounting<br>              |                               |                                                                                   |                   |                                     |                | Pre-wired Models (1m)         | EE-SX672-WR    | EE-SX672P-WR    |
| T-shaped, slot center 10 mm<br> |                               |                                                                                   |                   |                                     |                | Models with connectors (0.1m) | EE-SX672-C1J-R | EE-SX672P-C1J-R |
| F-shaped<br>                  |                               |                                                                                   |                   |                                     |                | Pre-wired Models (1m)         | EE-SX673-WR    | EE-SX673P-WR    |
| R-shaped<br>                  |                               |                                                                                   |                   |                                     |                | Models with connectors (0.1m) | EE-SX673-C1J-R | EE-SX673P-C1J-R |
|                                                                                                                  |                               |                                                                                   |                   |                                     |                | Pre-wired Models (1m)         | EE-SX674-WR    | EE-SX674P-WR    |
|                                                                                                                  |                               |                                                                                   |                   |                                     |                | Models with connectors (0.1m) | EE-SX674-C1J-R | EE-SX674P-C1J-R |
|                                                                                                                  |                               |                                                                                   |                   |                                     |                | Pre-wired Models (1m)         | EE-SX675-WR    | EE-SX675P-WR    |
|                                                                                                                  |                               |                                                                                   |                   |                                     |                | Models with connectors (0.1m) | EE-SX675-C1J-R | EE-SX675P-C1J-R |
|                                                                                                                  |                               |                                                                                   |                   |                                     |                | Pre-wired Models (1m)         | EE-SX676-WR    | EE-SX676P-WR    |
|                                                                                                                  |                               |                                                                                   |                   |                                     |                | Models with connectors (0.1m) | EE-SX676-C1J-R | EE-SX676P-C1J-R |
|                                                                                                                  |                               |                                                                                   |                   |                                     |                | Pre-wired Models (1m)         | EE-SX677-WR    | EE-SX677P-WR    |
|                                                                                                                  |                               |                                                                                   |                   |                                     |                | Models with connectors (0.1m) | EE-SX677-C1J-R | EE-SX677P-C1J-R |

\* These models can be used as Dark-ON when the L terminal is left unconnected or as Light-ON when the L terminal and positive (+) terminal are connected to each other.

## Accessories (Order Separately) Connector Models

| Type                       | Cable length | Model     | Remarks                                                           |
|----------------------------|--------------|-----------|-------------------------------------------------------------------|
| Connector                  |              | EE-1001   |                                                                   |
|                            |              | EE-1001-1 | L terminal and positive (+) terminal are already short-circuited. |
|                            |              | EE-1009   |                                                                   |
| Connector with Cable       | 1 m          | EE-1006   |                                                                   |
|                            |              | EE-1010   |                                                                   |
|                            |              | EE-1010   |                                                                   |
| Connector with Robot Cable | 2 m          | EE-1006   |                                                                   |
|                            |              | EE-1010   |                                                                   |
|                            |              | EE-1010   |                                                                   |
| Connector with Robot Cable | 1 m          | EE-1010-R |                                                                   |
| Connector with Robot Cable | 2 m          | EE-1010-R |                                                                   |
| Connector Hold-down Clip   |              | EE-1006A  | For EE-1006 only.                                                 |

Refer to *Accessories* for details.

## Accessories (Order Separately) Models with Connectors

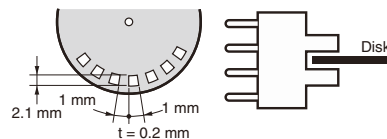
| Type                       | Cable length | Model       | Remarks                  |
|----------------------------|--------------|-------------|--------------------------|
| Connector with Robot Cable | 2 m          | EE-1016-R-1 | For EE-SX67□-C1J-R only. |

## Ratings and Specifications

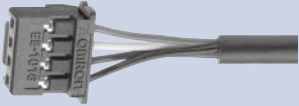
| Item                      | Type                      |                                     | Standard                                                                                                                                                                                                                                                                         | L-shaped                            | T-shaped,<br>slot center<br>7 mm    | Close-mounting                      |                                   | T-shaped,<br>slot center<br>10 mm | F-shaped            | R-shaped           |
|---------------------------|---------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-----------------------------------|-----------------------------------|---------------------|--------------------|
|                           | NPN<br>models             | Connector<br>models                 | EE-SX670<br>EE-SX670A<br>EE-SX470                                                                                                                                                                                                                                                | EE-SX671<br>EE-SX671A<br>EE-SX471   | EE-SX672<br>EE-SX672A<br>EE-SX472   | EE-SX673<br>EE-SX673A<br>EE-SX473   | EE-SX674<br>EE-SX674A<br>EE-SX474 | EE-SX675                          | EE-SX676            | EE-SX677           |
|                           |                           | Pre-wired<br>models                 | EE-SX670-WR                                                                                                                                                                                                                                                                      | EE-SX671-WR                         | EE-SX672-WR                         | EE-SX673-WR                         | EE-SX674-WR                       | EE-SX675-WR                       | EE-SX676-WR         | EE-SX677-WR        |
|                           |                           | Models with<br>connectors           | EE-SX670-<br>CJ1-R                                                                                                                                                                                                                                                               | EE-SX671-<br>CJ1-R                  | EE-SX672-<br>CJ1-R                  | EE-SX673-<br>CJ1-R                  | EE-SX674-<br>CJ1-R                | EE-SX675-<br>CJ1-R                | EE-SX676-<br>CJ1-R  | EE-SX677-<br>CJ1-R |
| PNP<br>models             | Connector<br>models       | EE-SX670P<br>EE-SX670R<br>EE-SX470P | EE-SX671P<br>EE-SX671R<br>EE-SX471P                                                                                                                                                                                                                                              | EE-SX672P<br>EE-SX672R<br>EE-SX472P | EE-SX673P<br>EE-SX673R<br>EE-SX473P | EE-SX674P<br>EE-SX674R<br>EE-SX474P | EE-SX675P                         | EE-SX676P                         | EE-SX677P           |                    |
|                           | Pre-wired<br>models       | EE-SX670P-WR                        | EE-SX671P-WR                                                                                                                                                                                                                                                                     | EE-SX672P-WR                        | EE-SX673P-WR                        | EE-SX674P-WR                        | EE-SX675P-WR                      | EE-SX676P-WR                      | EE-SX677P-WR        |                    |
|                           | Models with<br>connectors | EE-SX670P-<br>CJ1-R                 | EE-SX671P-<br>CJ1-R                                                                                                                                                                                                                                                              | EE-SX672P-<br>CJ1-R                 | EE-SX673P-<br>CJ1-R                 | EE-SX674P-<br>CJ1-R                 | EE-SX675P-<br>CJ1-R               | EE-SX676P-<br>CJ1-R               | EE-SX677P-<br>CJ1-R |                    |
| Sensing distance          |                           |                                     | 5 mm (slot width)                                                                                                                                                                                                                                                                |                                     |                                     |                                     |                                   |                                   |                     |                    |
| Sensing object            |                           |                                     | Opaque: 2 × 0.8 mm min.                                                                                                                                                                                                                                                          |                                     |                                     |                                     |                                   |                                   |                     |                    |
| Differential distance     |                           |                                     | 0.025 mm                                                                                                                                                                                                                                                                         |                                     |                                     |                                     |                                   |                                   |                     |                    |
| Light source              |                           |                                     | GaAs infrared LED with a peak wavelength of 940 nm                                                                                                                                                                                                                               |                                     |                                     |                                     |                                   |                                   |                     |                    |
| Indicator *1              |                           |                                     | Light indicator (red) (turns ON when light is interrupted for models with A or R suffix)                                                                                                                                                                                         |                                     |                                     |                                     |                                   |                                   |                     |                    |
| Supply voltage            |                           |                                     | 5 to 24 VDC ±10%, ripple (p-p): 10% max.                                                                                                                                                                                                                                         |                                     |                                     |                                     |                                   |                                   |                     |                    |
| Current consumption       |                           |                                     | 35 mA max. (NPN models), 30 mA max. (PNP models)                                                                                                                                                                                                                                 |                                     |                                     |                                     |                                   |                                   |                     |                    |
| Control output            |                           |                                     | NPN open collector: 5 to 24 VDC, 100 mA max.<br>100 mA load current with a residual voltage of 0.8 V max.<br>40 mA load current with a residual voltage of 0.4 V max.<br>PNP open collector: 5 to 24 VDC, 50 mA max.<br>50 mA load current with a residual voltage of 1.3 V max. |                                     |                                     |                                     |                                   |                                   |                     |                    |
| Response frequency *2     |                           |                                     | 1 kHz min. (3 kHz average)                                                                                                                                                                                                                                                       |                                     |                                     |                                     |                                   |                                   |                     |                    |
| Ambient illumination      |                           |                                     | 1,000 lx max. with fluorescent light on the surface of the receiver.                                                                                                                                                                                                             |                                     |                                     |                                     |                                   |                                   |                     |                    |
| Ambient temperature range |                           |                                     | Operating: -25 to +55°C, Storage: -30 to +80°C (with no icing or condensation)                                                                                                                                                                                                   |                                     |                                     |                                     |                                   |                                   |                     |                    |
| Ambient humidity range    |                           |                                     | Operating: 5% to 85%, Storage: 5% to 95% (with no icing or condensation)                                                                                                                                                                                                         |                                     |                                     |                                     |                                   |                                   |                     |                    |
| Vibration resistance      |                           |                                     | Destruction: 20 to 2,000 Hz (peak acceleration: 100 m/s <sup>2</sup> )<br>1.5-mm double amplitude for 2 h (4-min periods) each in X, Y, and Z directions                                                                                                                         |                                     |                                     |                                     |                                   |                                   |                     |                    |
| Shock resistance          |                           |                                     | Destruction: 500 m/s <sup>2</sup> for 3 times each in X, Y, and Z directions                                                                                                                                                                                                     |                                     |                                     |                                     |                                   |                                   |                     |                    |
| Enclosure rating          |                           |                                     | IEC IP50                                                                                                                                                                                                                                                                         |                                     |                                     |                                     |                                   |                                   |                     |                    |
| Connecting method         |                           |                                     | Connector Models (direct soldering possible), Pre-wired Models (Standard cable length: 1m),<br>Models with Connectors (Standard cable length: 0.3m)                                                                                                                              |                                     |                                     |                                     |                                   |                                   |                     |                    |
| Weight                    | Connector 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. 2.2g       |
|                           | Pre-wired models          |                                     | Approx. 18.9 g                                                                                                                                                                                                                                                                   | Approx. 17.3 g                      | Approx. 17.8 g                      | Approx. 16.8 g                      | Approx. 17.1 g                    | Approx. 18.3 g                    | Approx. 16.9 g      | Approx. 16.9 g     |
|                           | Models with connectors    |                                     | Approx. 6.3 g                                                                                                                                                                                                                                                                    | Approx. 4.7 g                       | Approx. 5.2 g                       | Approx. 4.2 g                       | Approx. 4.5 g                     | Approx. 5.7 g                     | Approx. 4.3 g       | Approx. 4.3 g      |
| Material                  | Case                      |                                     | Polybutylene phthalate (PBT)                                                                                                                                                                                                                                                     |                                     |                                     |                                     |                                   |                                   |                     |                    |
|                           | Cover                     |                                     | Polycarbonate                                                                                                                                                                                                                                                                    |                                     |                                     |                                     |                                   |                                   |                     |                    |
|                           | Emitter/receiver          |                                     |                                                                                                                                                                                                                                                                                  |                                     |                                     |                                     |                                   |                                   |                     |                    |

\*1. 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.

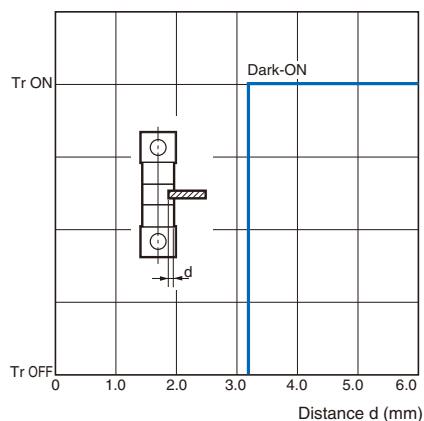


## Connector for the EE-SX67 with Junction Connector

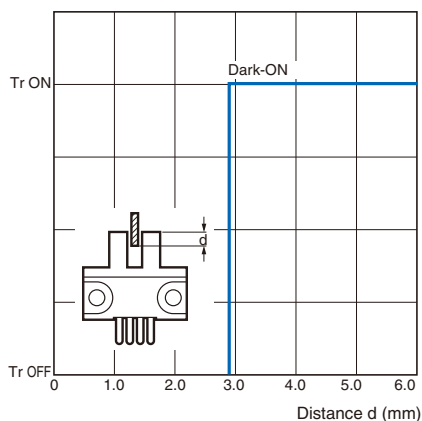
| Product Model                               | Connector with Robot Cable                                                          |                 |
|---------------------------------------------|-------------------------------------------------------------------------------------|-----------------|
|                                             | EE-1016-R-1                                                                         |                 |
| Appearance                                  |  |                 |
| Item                                        |                                                                                     |                 |
| Contact resistance                          | 25 mΩ max. (at 10 mA DC and 20 mV max.)                                             |                 |
| Insertion strength                          | 20 N max.                                                                           |                 |
| Surplus strength (housing holding strength) | 15 N min.                                                                           |                 |
| Cable length                                | 2m                                                                                  |                 |
| Ambient temperature range                   | -25 to +85°C                                                                        |                 |
| Materials                                   | Housing                                                                             | Nylon           |
|                                             | Contact                                                                             | Phosphor bronze |

## Engineering Data (Typical)

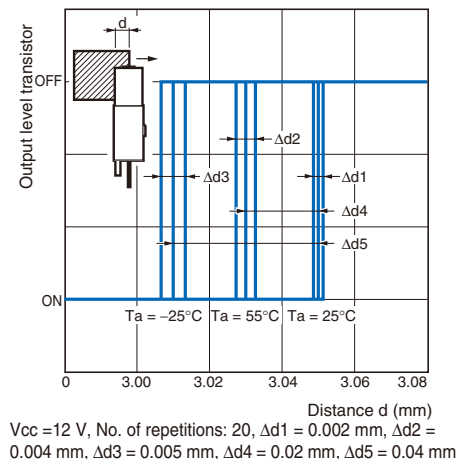
## Sensing Position Characteristics



## Sensing Position Characteristics



## Repeated Sensing Position Characteristics



## I/O Circuit Diagrams

## NPN Output

| Model                                                         | Output configuration | Timing charts                                                                                                                            | Terminal connections                                          | Output circuit                                                                         |
|---------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------|
| EE-SX67□<br>EE-SX67□-WR<br>EE-SX67□-CJ1-R                     | Light-ON             | Incident Interrupted<br>Light indicator (red) ON OFF<br>Output transistor ON OFF<br>Load 1 Operates (e.g., relay) Releases<br>Load 2 H L | Short-circuited between<br>⓪ terminal and positive ⊕ terminal | <p>*The terminal arrangement depends on the model. Check the dimensional diagrams.</p> |
|                                                               | Dark-ON              | Incident Interrupted<br>Light indicator (red) ON OFF<br>Output transistor ON OFF<br>Load 1 Operates (e.g., relay) Releases<br>Load 2 H L | Open between<br>⓪ terminal and positive ⊕ terminal            |                                                                                        |
| EE-SX670A<br>EE-SX671A<br>EE-SX672A<br>EE-SX673A<br>EE-SX674A | Light-ON             | Incident Interrupted<br>Light indicator (red) ON OFF<br>Output transistor ON OFF<br>Load 1 Operates (e.g., relay) Releases<br>Load 2 H L | Short-circuited between<br>⓪ terminal and positive ⊕ terminal | <p>*The terminal arrangement depends on the model. Check the dimensional diagrams.</p> |
|                                                               | Dark-ON              | Incident Interrupted<br>Light indicator (red) ON OFF<br>Output transistor ON OFF<br>Load 1 Operates (e.g., relay) Releases<br>Load 2 H L | Open between<br>⓪ terminal and positive ⊕ terminal            |                                                                                        |
| EE-SX470<br>EE-SX471<br>EE-SX472<br>EE-SX473<br>EE-SX474      | Light-ON             | Incident Interrupted<br>Light indicator (red) ON OFF<br>Output transistor ON OFF<br>Load 1 (relay) Operates Releases<br>Load 2 H L       | ---                                                           |                                                                                        |

PNP Output

| Model                                                         | Output configuration | Timing charts | Terminal connections                                             | Output circuit |
|---------------------------------------------------------------|----------------------|---------------|------------------------------------------------------------------|----------------|
| EE-SX67□P<br>EE-SX67□P-WR<br>EE-SX67□P-CJ1-R                  | Light-ON             |               | Short-circuited between<br>Ⓛ terminal and<br>positive ⊕ terminal |                |
|                                                               | Dark-ON              |               | Open between<br>Ⓛ terminal and<br>positive ⊕ terminal            |                |
| EE-SX670R<br>EE-SX671R<br>EE-SX672R<br>EE-SX673R<br>EE-SX674R | Light-ON             |               | Short-circuited between<br>Ⓛ terminal and<br>positive ⊕ terminal |                |
|                                                               | Dark-ON              |               | Open between<br>Ⓛ terminal and<br>positive ⊕ terminal            |                |
| EE-SX470P<br>EE-SX471P<br>EE-SX472P<br>EE-SX473P<br>EE-SX474P | Light-ON             |               | ---                                                              |                |

Safety Precautions

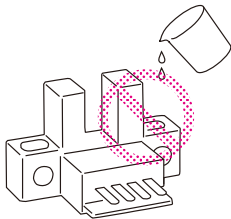
Refer to *Warranty and Limitations of Liability*.

**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 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           | Temperature | 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, X43M indicates the lot number and factory where the product was manufactured. Do not include this code with the model number when ordering.

**EE-SX□70□**

## Dimensions

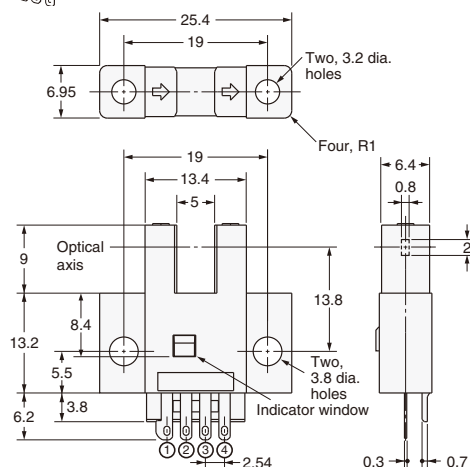
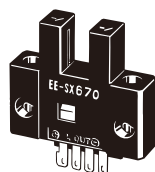
### Sensors

EE-SX670/670P  
EE-SX670A/670R  
EE-SX470/470P

#### Terminal Arrangement

|     |     |           |
|-----|-----|-----------|
| (1) | ⊕   | Vcc       |
| (2) | L   | L*        |
| (3) | OUT | OUTPUT    |
| (4) | ⊖   | GND (0 V) |

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

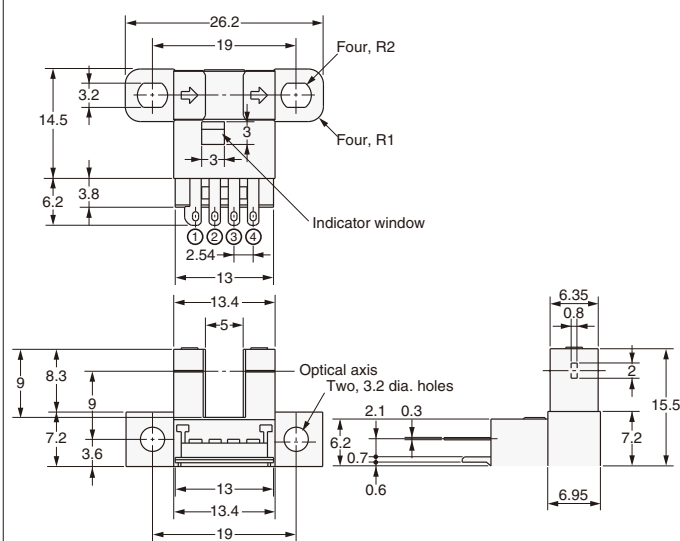
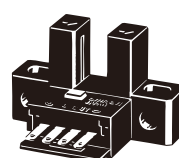


EE-SX671/671P  
EE-SX671A/671R  
EE-SX471/471P

#### Terminal Arrangement

|     |     |           |
|-----|-----|-----------|
| (1) | ⊕   | Vcc       |
| (2) | L   | L*        |
| (3) | OUT | OUTPUT    |
| (4) | ⊖   | GND (0 V) |

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

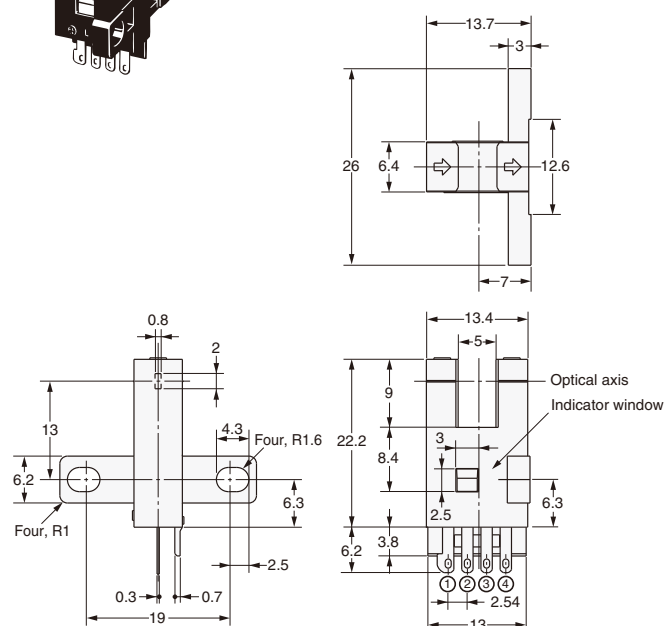
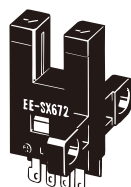


EE-SX672/672P  
EE-SX672A/672R  
EE-SX472/472P

#### Terminal Arrangement

|     |     |           |
|-----|-----|-----------|
| (1) | ⊕   | Vcc       |
| (2) | L   | L*        |
| (3) | OUT | OUTPUT    |
| (4) | ⊖   | GND (0 V) |

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

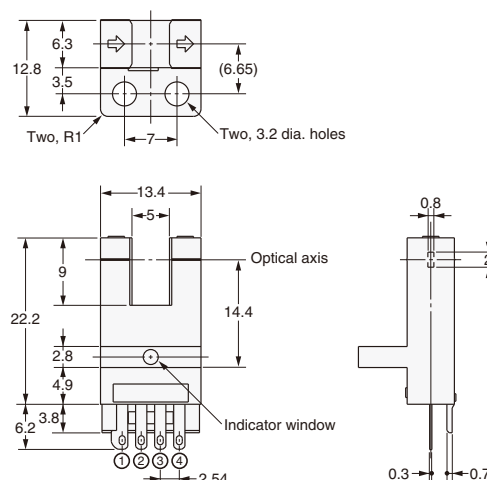


EE-SX673/673P  
EE-SX673A/673R  
EE-SX473/473P

#### Terminal Arrangement

|     |     |           |
|-----|-----|-----------|
| (1) | ⊕   | Vcc       |
| (2) | L   | L*        |
| (3) | OUT | OUTPUT    |
| (4) | ⊖   | GND (0 V) |

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



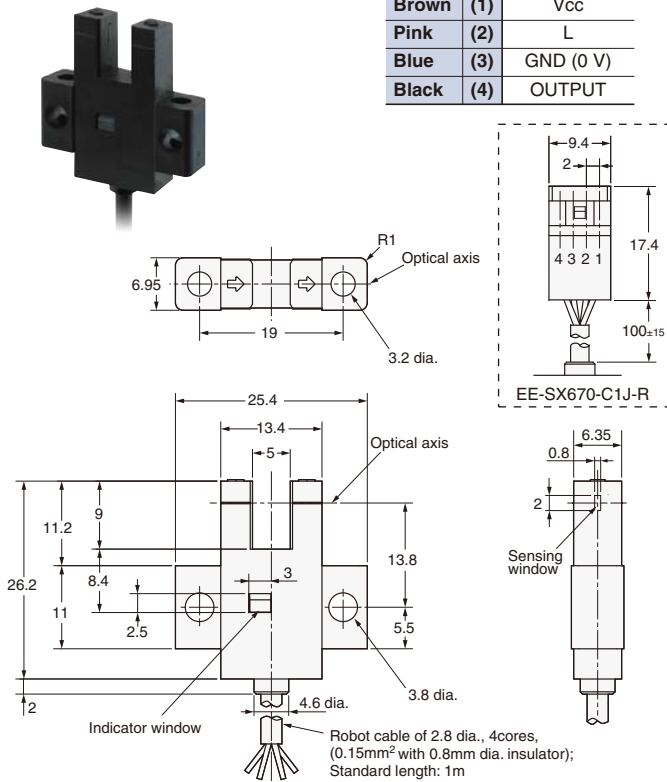




## EE-SX670-WR/670P-WR EE-SX670-C1J-R/670P-C1J-R

### Terminal Arrangement

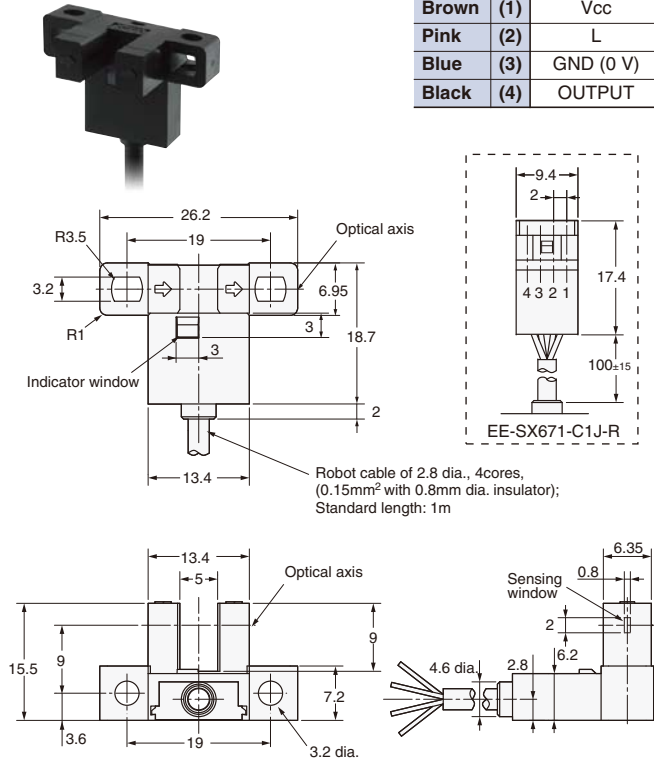
|       |     |           |
|-------|-----|-----------|
| Brown | (1) | Vcc       |
| Pink  | (2) | L         |
| Blue  | (3) | GND (0 V) |
| Black | (4) | OUTPUT    |



## EE-SX671-WR/671P-WR EE-SX671-C1J-R/671P-C1J-R

### Terminal Arrangement

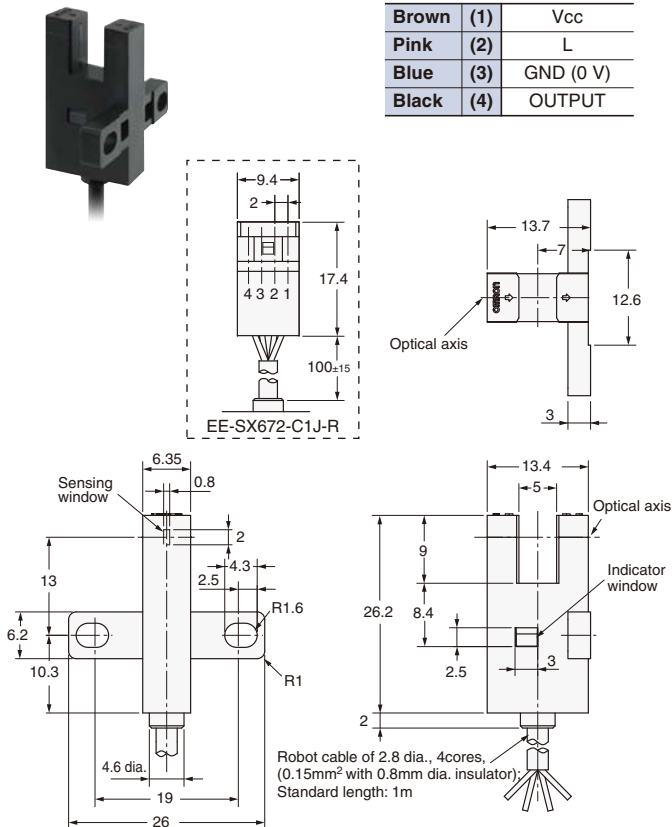
|       |     |           |
|-------|-----|-----------|
| Brown | (1) | Vcc       |
| Pink  | (2) | L         |
| Blue  | (3) | GND (0 V) |
| Black | (4) | OUTPUT    |



## EE-SX672-WR/672P-WR EE-SX672-C1J-R/672P-C1J-R

### Terminal Arrangement

|       |     |           |
|-------|-----|-----------|
| Brown | (1) | Vcc       |
| Pink  | (2) | L         |
| Blue  | (3) | GND (0 V) |
| Black | (4) | OUTPUT    |



## EE-SX673-WR/673P-WR EE-SX673-C1J-R/673P-C1J-R

### Terminal Arrangement

|       |     |           |
|-------|-----|-----------|
| Brown | (1) | Vcc       |
| Pink  | (2) | L         |
| Blue  | (3) | GND (0 V) |
| Black | (4) | OUTPUT    |

