



## 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 | 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 | 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 | 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 | 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 | 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 | Incident light    | EE-SX675   | EE-SX675P  |
| F-shaped                     |                               |                     |                                                                                                       | Dark-ON/Light-ON (selectable) *3 | Incident light    | EE-SX676   | EE-SX676P  |
| R-shaped                     |                               |                     |                                                                                                       | 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 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.

## 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) | <div></div>      | 5 mm (slot width) | Dark-ON/<br>Light-ON (selectable) * | 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 |

\* 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

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

\* Refer to *Accessories* for details.