Slot-type Photomicrosensor (Non-modulated) +

E-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.

Ordering Information

Connector

| Appearance | Sensing | Connect- | Sensing | lietanco | Output | Indicator mode | Мо | | |
|-----------------------------------|--------------|------------------------|---------|----------------------|-------------------------------------|-------------------|----------------|------------|-----------|
| Appearance | method | ing method | Sensing | listance | configuration | indicator mode | NPN output | PNP output | |
| Standard | | | | | Dark-ON/Light-ON | Incident light | EE-SX670 | EE-SX670P | |
| They are | 1 | | | | (selectable) *3 | No incident light | EE-SX670A | EE-SX670R | |
| 6888 | | | | | Light-ON | Incident light | EE-SX470 | EE-SX470P | |
| L-shaped | | | | | Dark-ON/Light-ON | Incident light | EE-SX671 | EE-SX671P | |
| | 1 | | | | (selectable) *3 | No incident light | EE-SX671A | EE-SX671R | |
| 1111 | | | | | Light-ON | Incident light | EE-SX471 | EE-SX471P | |
| T-shaped, | | | | | Dark-ON/Light-ON | Incident light | EE-SX672 | EE-SX672P | |
| slot center 7 mm | p | Connector (4 poles) | | | (selectable) *3 | No incident light | EE-SX672A | EE-SX672R | |
| 0.08 | | | | | Light-ON | Incident light | EE-SX472 | EE-SX472P | |
| Close- | | | | | Dark-ON/Light-ON | Incident light | EE-SX673 | EE-SX673P | |
| mounting | Through- | | | 5 mm (slot width) | (selectable) *3 | No incident light | EE-SX673A | EE-SX673R | |
| 0000 | beam type | | | | | Light-ON | Incident light | EE-SX473 | EE-SX473P |
| Close- | (with slot) | | (| | Dark-ON/Light-ON | Incident light | EE-SX674 | EE-SX674P | |
| mounting | 1 | | | | (selectable) *3 | No incident light | EE-SX674A | EE-SX674R | |
| 2000 | | | | | Light-ON | Incident light | EE-SX474 | EE-SX474P | |
| 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.

CE

| _ | Sensing | | Output | Indicator | Connecting | Model | | |
|-------------------------------|---------------------|------------------|--|-------------------|--------------------------|----------------|--------------------|--|
| Appearance | method | Sensing distance | configura- tion | mode | method | NPN output | PNP output | |
| tandard | | | | | | EE-SX670-WR 1M | EE-SX670P-WI 1M | |
| -shaped |) | | | Incident light | | EE-SX671-WR 1M | EE-SX671P-W | |
| -shaped, ot center mm | P | | | | | EE-SX672-WR 1M | EE-SX672P-WI 1M | |
| lose- lounting | Through- beam | 5 mm | Dark-ON/ Light-ON (selectable) * | | Pre-wired Models (1m) | EE-SX673-WR 1M | EE-SX673P-W 1M | |
| lose- iounting | type (with slot) | (slot width) | | | | EE-SX674-WR 1M | EE-SX674P-W 1M | |
| -shaped, ot center 0 mm | 7 | | | | | EE-SX675-WR 1M | EE-SX675P-W 1M | |
| -shaped | | | | | | EE-SX676-WR 1M | EE-SX676P-W 1M | |
| -shaped | | | | | | EE-SX677-WR 1M | EE-SX677P-WI 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

| | Туре | 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 | |
| | Connector with Cable | 1 111 | EE-1010 1M | |
| | Connector with Cable | 2 m | EE-1006 2M | |
| | | 2 111 | EE-1010 2M | |
| | Connector with Robot | 1 m | EE-1010-R 1M | |
| | Cable | 2 m | EE-1010-R 2M | |
| Connector | Hold-down Clip | | EE-1006A | For EE-1006 only. |

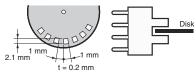
* Refer to Accessories for details.

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Ratings and Specifications

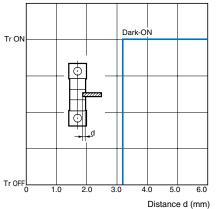
| | | Туре | Standard | L-shaped | T-shaped, slot center 7 mm | Close-m | nounting | Close-mounting T-shaped, slot center F-shaped 10 mm | | | | | | | |
|--------|-----------------------|---------------------|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---|------------------|------------------|--|--|--|--|--|
| | 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 | | | | | |
| | models | 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 models | Connector models | EE-SX670P EE-SX670R EE-SX470P | EE-SX671P EE-SX671R EE-SX471P | EE-SX672P EE-SX672R EE-SX472P | EE-SX673P EE-SX673R EE-SX473P | EE-SX674P EE-SX674R EE-SX474P | 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 widt | 5 mm (slot width) | | | | | | | | | | | |
| Sensi | ng object | | Opaque: 2 × 0.8 | 3 mm min. | | | | | | | | | | | |
| Differ | ential dist | ance | 0.025 mm | | | | | | | | | | | | |
| Light | source | | GaAs infrared L | ED with a peak | wavelength of 94 | 0 nm | | | | | | | | | |
| Indica | itor *1 | | Light indicator (red) (turns ON when light is interrupted for models with A or R suffix) | | | | | | | | | | | | |
| Suppl | y voltage | | 5 to 24 VDC ±10%, ripple (p-p): 10% max. | | | | | | | | | | | | |
| Curre | nt consun | nption | 35 mA max. (NPN models), 30 mA max. (PNP models) | | | | | | | | | | | | |
| Contr | ol output | | NPN open collector: 5 to 24 VDC, 100 mA max. 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. | | | | | | | | | | | | |
| Respo | onse frequ | lency *2 | 1 kHz min. (3 kHz average) | | | | | | | | | | | | |
| Ambie | ent illumir | nation | 1,000 lx max. with fluorescent light on the surface of the receiver. | | | | | | | | | | | | |
| Ambie | ent tempe | rature range | Operating: -25 to +55°C, Storage: -30 to +80°C (with no icing or condensation) | | | | | | | | | | | | |
| Ambie | ent humid | ity range | Operating: 5% to 85%, Storage: 5% to 95% (with no icing or condensation) | | | | | | | | | | | | |
| Vibrat | tion resist | ance | Destruction: 20 to 2,000 Hz (peak acceleration: 100 m/s ²) 1.5-mm double amplitude for 2 h (4-min periods) each in X, Y, and Z directions | | | | | | | | | | | | |
| Shock | <pre>c resistan</pre> | се | Destruction: 500 m/s ² for 3 times each in X, Y, and Z directions | | | | | | | | | | | | |
| Degre | e of prote | ction | IEC60529 IP50 | | | | | | | | | | | | |
| Conne | 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 | 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 | | | | | | | | | | | | |
| Ma- | Case | | Polybutylene ph | nthalate (PBT) | | | | | | | | | | | |
| teri- | Cover | | Polycarbonate | | | | | | | | | | | | |
| al | Emitter/r | eceiver | rorycarboriale | | | | | | | | | | | | |

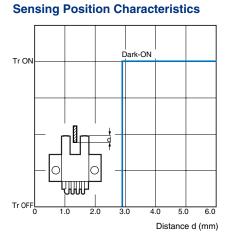
*1. The indicator is a GaP red LED (peak wavelength: 690 nm).
*2. The response frequency was measured by detecting the rotating disk shown at the right.



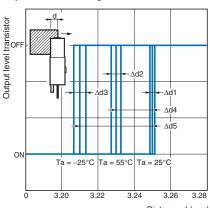
Engineering Data (Typical)

Sensing Position Characteristics





Repeated Sensing Position Characteristics



Distance d (mm) 20 Ad1 = 0.002 mm

Vcc =12 V, No. of repetitions: 20, $\Delta d1 = 0.002$ mm, $\Delta d2 = 0.004$ mm, $\Delta d3 = 0.005$ mm, $\Delta d4 = 0.02$ mm, $\Delta d5 = 0.04$ mm

Note: The data applies to dark status. Operation may be affected by external light interference or light coming through the sensing object.

I/O Circuit Diagrams

| NPN Output | | | | | | | | | |
|--|----------------------|--|---|---|--|--|--|--|--|
| Model | Output configuration | Timing charts | Terminal connections | Output circuit | | | | | |
| EE-SX67□ EE-SX67⊡-WR | 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 ⊕ terminal | | | | | | |
| | Dark-ON | Incident Interrupted Light indicator ON (red) OFF Output ON transistor OFF Load Operates (e.g., relay) Releases | Open between () terminal and positive ⊕ terminal *1 | Light indicator (red) | | | | | |
| 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 ⊕ terminal | *The terminal arrangement depends on the model. Check the dimensional diagrams. | | | | | |
| 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 () terminal and positive ⊕ terminal *1 | | | | | | |
| 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 Generation Circuit | | | | | |

*1. Do not connect the L terminal to 0 V when using dark-ON operation.

| Model | Output configuration | Timing charts | Terminal connections | Output circuit |
|---|----------------------|--|---|--|
| EE-SX67□P | Light-ON | Incident Interrupted Light indicator ON (red) OFF Output ON transistor OFF Load Operates (relay) Releases | Short-circuited between © terminal and positive ⊕ terminal | |
| EE-SX67⊡P-WR | Dark-ON | Incident Interrupted Light indicator ON (red) OFF Output ON transistor OFF Load Operates (relay) Releases | Open between ℂ terminal and positive ⊕ terminal *1 | Light indicator (red) |
| 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 © terminal and positive ⊕ 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 ON transistor OFF Load Operates (e.g., relay) Releases | Open between © terminal and positive ⊕ terminal *1 | |
| EE-SX470P EE-SX471P EE-SX472P EE-SX473P EE-SX474P | Light-ON | Incident Interrupted Light indicator ON (red) OFF Output ON transistor OFF Load Operates (relay) Releases | | Light indicator (red) Main circuit C |

*1. Do not connect the L terminal to 0 V when using dark-ON operation.

Safety Precautions

Refer to Warranty and Limitations of Liability.

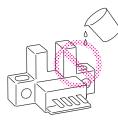
This product is not designed or rated for ensuring safety of persons either directly or indirectly. Do not use it for such purposes.



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

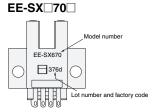
• When direct soldering to the terminals, use the following guidelines. Soldering Conditions

| 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, 376d indicates the lot number and factory where the product was manufactured. Do not include this code with the model number when ordering.

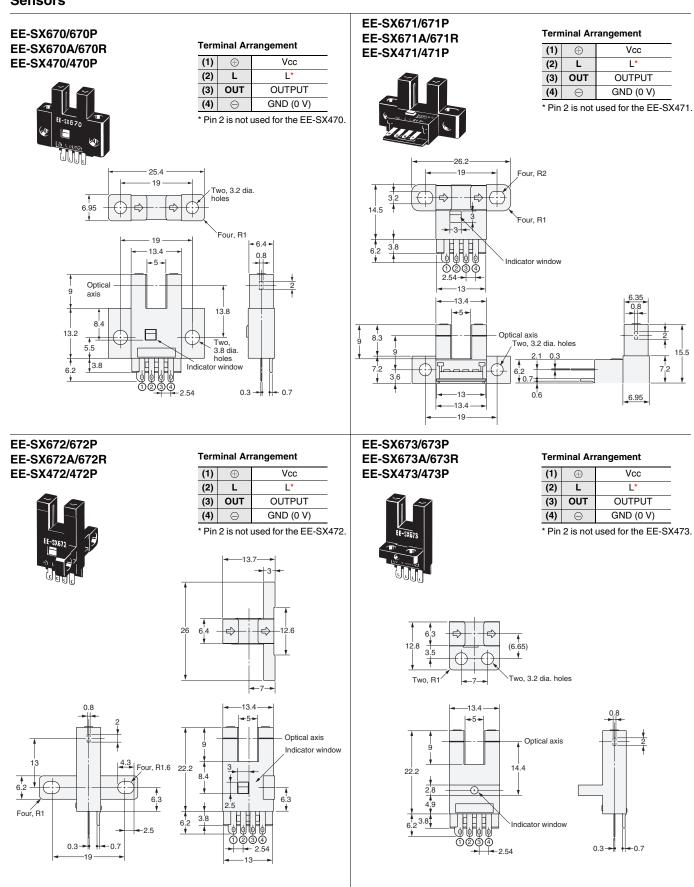


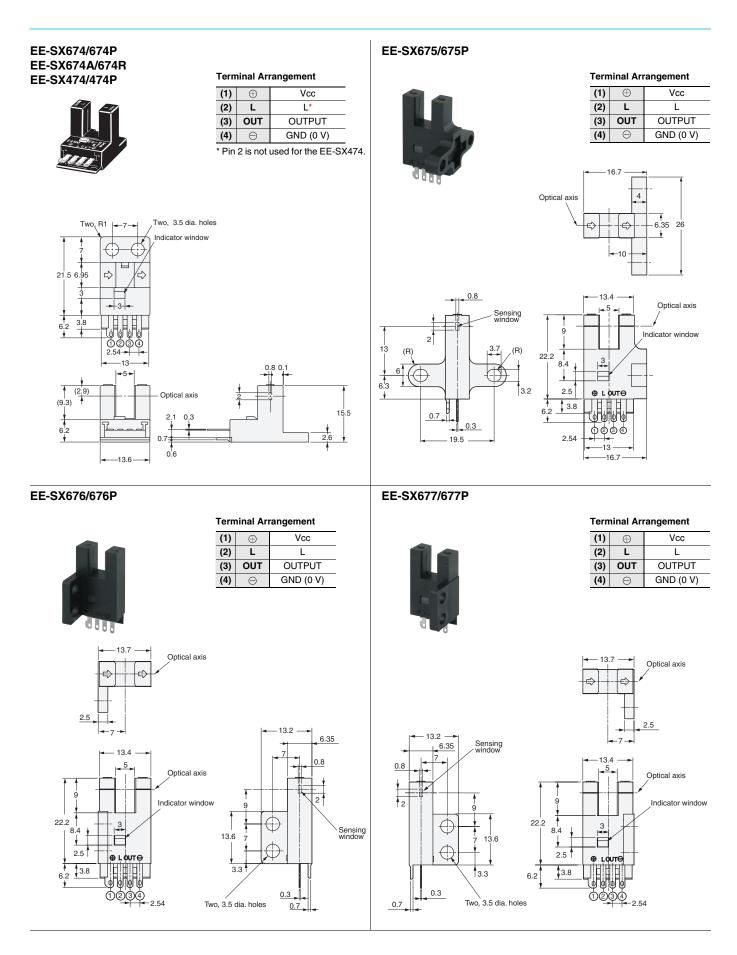
(Unit: mm)

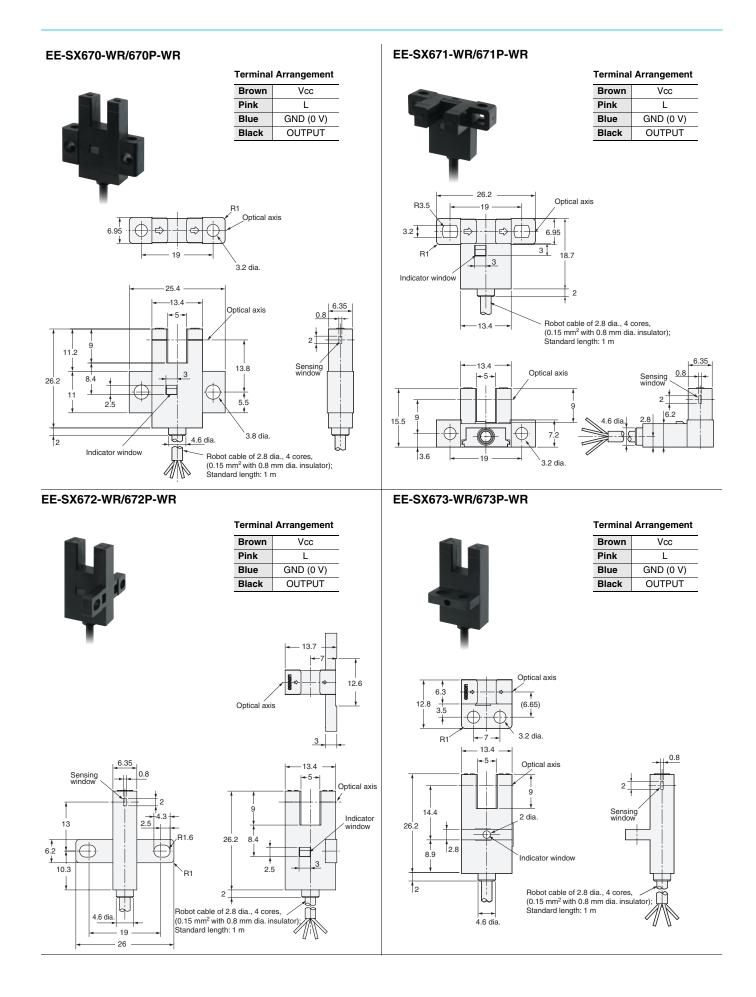
Dimensions

Tolerance class IT16 applies to dimensions in this datasheet unless otherwise specified.

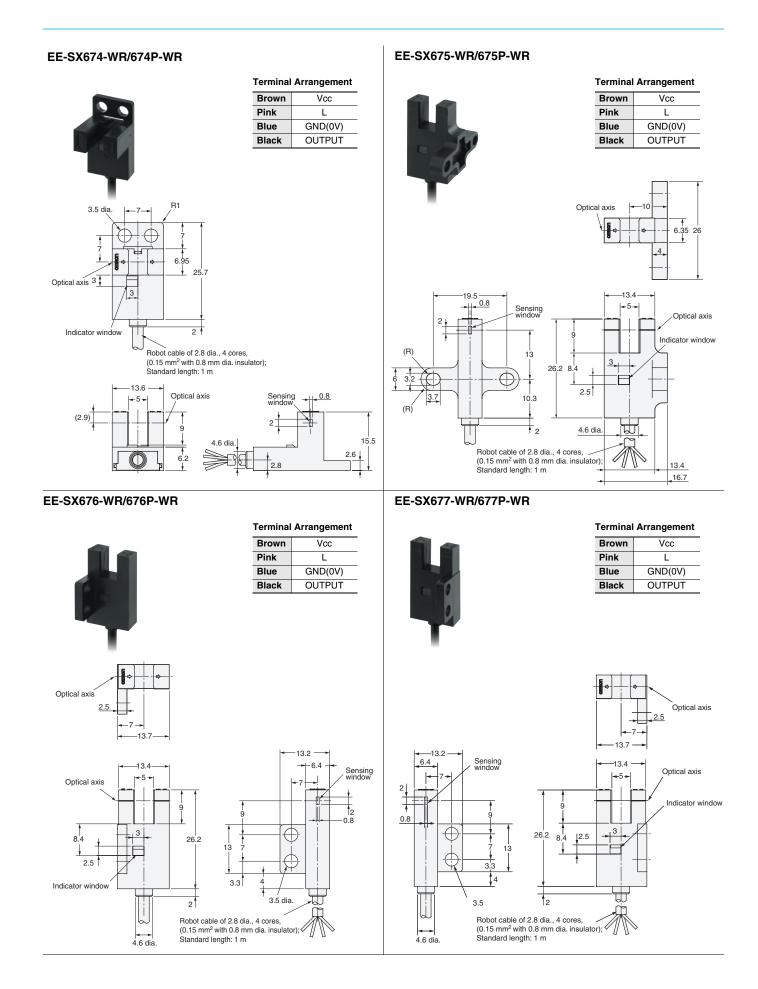
Sensors







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Read and Understand This Catalog

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

Warranty and Limitations of Liability

WARRANTY

OMRON's exclusive warranty is that the products are free from defects in materials and workmanship for a period of one year (or other period if specified) from date of sale by OMRON.

OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, REGARDING NON-INFRINGEMENT, MERCHANTABILITY, OR FITNESS FOR PARTICULAR PURPOSE OF THE PRODUCTS. ANY BUYER OR USER ACKNOWLEDGES THAT THE BUYER OR USER ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE. OMRON DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED.

LIMITATIONS OF LIABILITY

OMRON SHALL NOT BE RESPONSIBLE FOR SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED ON CONTRACT, WARRANTY, NEGLIGENCE, OR STRICT LIABILITY.

In no event shall the responsibility of OMRON for any act exceed the individual price of the product on which liability is asserted.

IN NO EVENT SHALL OMRON BE RESPONSIBLE FOR WARRANTY, REPAIR, OR OTHER CLAIMS REGARDING THE PRODUCTS UNLESS OMRON'S ANALYSIS CONFIRMS THAT THE PRODUCTS WERE PROPERLY HANDLED, STORED, INSTALLED, AND MAINTAINED AND NOT SUBJECT TO CONTAMINATION, ABUSE, MISUSE, OR INAPPROPRIATE MODIFICATION OR REPAIR.

Application Considerations

SUITABILITY FOR USE

OMRON shall not be responsible for conformity with any standards, codes, or regulations that apply to the combination of products in the customer's application or use of the products.

At the customer's request, OMRON will provide applicable third party certification documents identifying ratings and limitations of use that apply to the products. This information by itself is not sufficient for a complete determination of the suitability of the products in combination with the end product, machine, system, or other application or use.

The following are some examples of applications for which particular attention must be given. This is not intended to be an exhaustive list of all possible uses of the products, nor is it intended to imply that the uses listed may be suitable for the products:

- · Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this catalog.
- Nuclear energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
- · Systems, machines, and equipment that could present a risk to life or property.

Please know and observe all prohibitions of use applicable to the products.

NEVER USE THE PRODUCTS FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCTS ARE PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

PROGRAMMABLE PRODUCTS

OMRON shall not be responsible for the user's programming of a programmable product, or any consequence thereof.

Disclaimers

CHANGE IN SPECIFICATIONS

Product specifications and accessories may be changed at any time based on improvements and other reasons.

It is our practice to change model numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the products may be changed without any notice. When in doubt, special model numbers may be assigned to fix or establish key specifications for your application on your request. Please consult with your OMRON representative at any time to confirm actual specifications of purchased products.

DIMENSIONS AND WEIGHTS

Dimensions and weights are nominal and are not to be used for manufacturing purposes, even when tolerances are shown.

PERFORMANCE DATA

Performance data given in this catalog is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of OMRON's test conditions, and the users must correlate it to actual application requirements. Actual performance is subject to the OMRON Warranty and Limitations of Liability.

ERRORS AND OMISSIONS

The information in this document has been carefully checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical, or proofreading errors, or omissions.

OMRON Corporation Industrial Automation Company In the interest of product improvement, specifications are subject to change without notice.

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