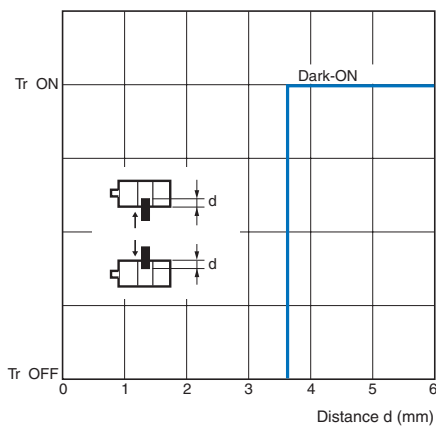


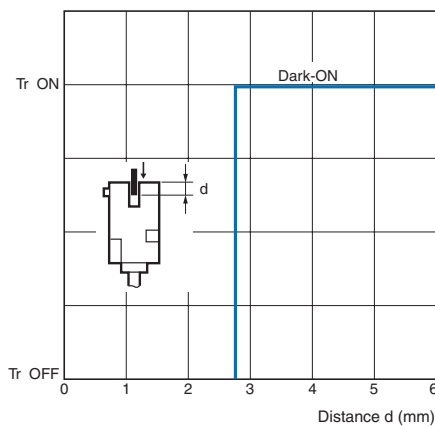
## Engineering Data (Reference Value)

### Sensing Position Characteristics

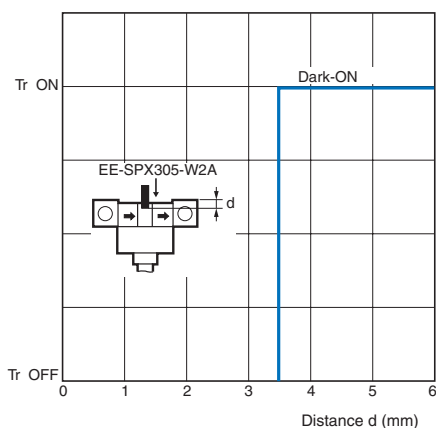
EE-SPX302-W2A  
EE-SPX304-W2A  
EE-SPX306-W2A



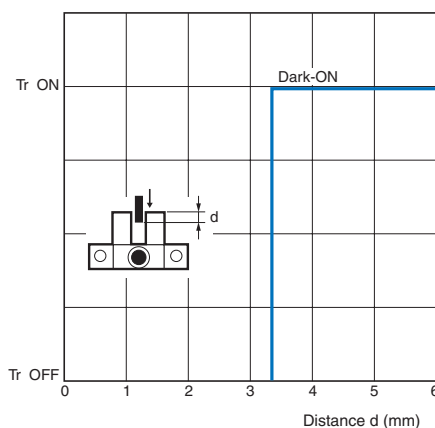
EE-SPX302-W2A  
EE-SPX304-W2A  
EE-SPX306-W2A



EE-SPX305-W2A



EE-SPX305-W2A



## 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.

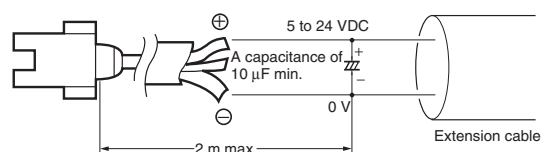


### Precautions for Correct Use

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

#### ● Wiring

- When extending the cable, use an extension cable with conductors having a total cross-section area of 0.3 mm<sup>2</sup>. The total cable length must be 2 m maximum.
- To use a cable length longer than 2 m, attach a capacitor with a capacitance of approximately 10 μF to the wires as shown below. The distance between the terminal and the capacitor must be within 2 m. (Use a capacitor with a dielectric strength that is at least twice the Sensor's power supply voltage.)



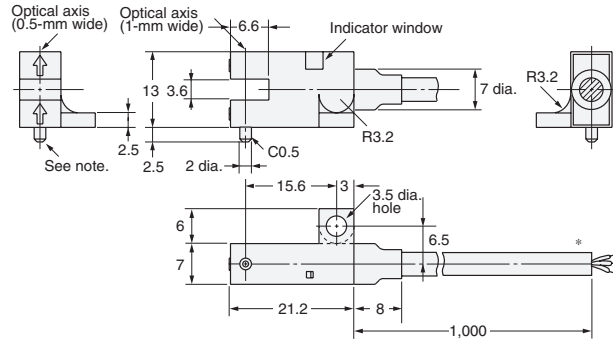
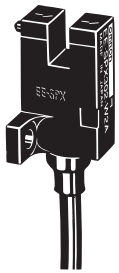
- Make sure the total length of the power cable connected to the product is less than 10 m even if a capacitor is inserted.

(Unit: mm)

## Dimensions

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

### EE-SPX302-W2A EE-SPX402-W2A

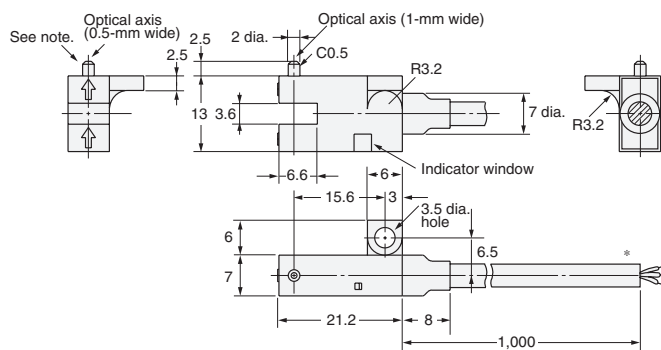


\* Vinyl-insulated round cable of 3.5 dia., 3 cores, (0.14 mm<sup>2</sup> with 1.0-dia. insulator); Standard length: 1 m

Note: The lug is used to prevent turning and to indicate the optical axis.

When installing, make a fixed hole of 2.1 to 2.3 mm dia.

### EE-SPX304-W2A EE-SPX404-W2A

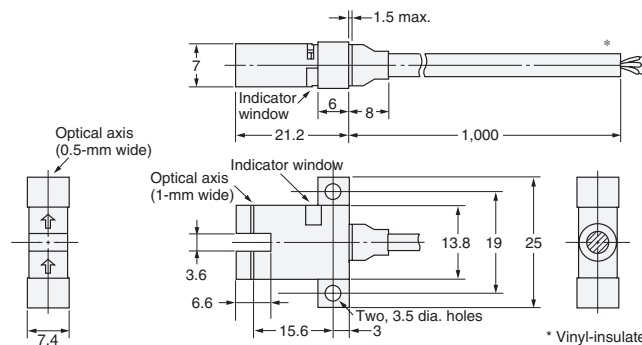
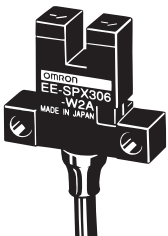


\* Vinyl-insulated round cable of 3.5 dia., 3 cores, (0.14 mm<sup>2</sup> with 1.0-dia. insulator); Standard length: 1 m

Note: The lug is used to prevent turning and to indicate the optical axis.

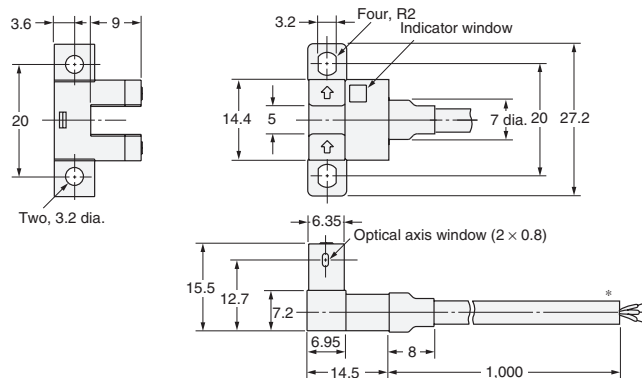
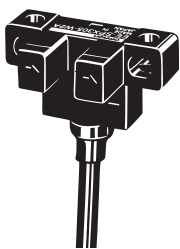
When installing, make a fixed hole of 2.1 to 2.3 mm dia.

### EE-SPX306-W2A EE-SPX406-W2A



\* Vinyl-insulated round cable of 3.5 dia., 3 cores, (0.14 mm<sup>2</sup> with 1.0-dia. insulator); Standard length: 1 m

### EE-SPX305-W2A EE-SPX405-W2A



\* Vinyl-insulated round cable of 3.5 dia., 3 cores, (0.14 mm<sup>2</sup> with 1.0-dia. insulator); Standard length: 1 m