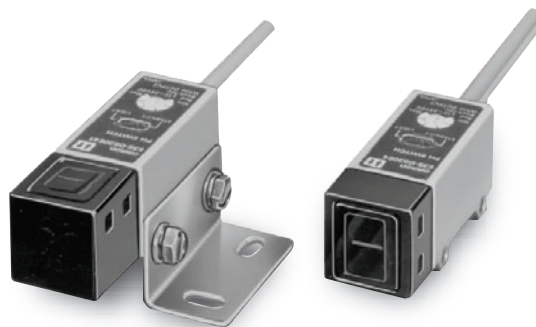



















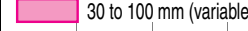
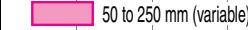
General-purpose Photoelectric Sensor for High Quality and Reliable Detection



 Be sure to read *Safety Precautions* on page 8.

Ordering Information

General-purpose Sensors

| Sensing method | Appearance | Sensing distance | Operation mode | Model |
|--|--|---|----------------------------------|--|
| Through-beam *1 |  |  2 m | Light-ON/Dark-ON (selectable) | E3S-2E4 Emitter E3S-2LE4 Receiver E3S-2DE4 |
| | |  5 m | | E3S-5E4 Emitter E3S-5LE4 Receiver E3S-5DE4 |
| Retro-reflective |  0.1 to 2 m | E3S-R2E4 | | |
| Diffuse-reflective |  |  100 mm | | E3S-DS10E4 |
| | |  300 mm | | E3S-DS30E4 |
| Through-beam *1 |  |  2 m | | E3S-2E41 Emitter E3S-2LE41 Receiver E3S-2DE41 |
| | |  5 m | | E3S-5E41 (42) *2 Emitter E3S-5LE41 (42) Receiver E3S-5DE41 (42) |
| Retro-reflective |  |  0.1 to 2 m | | E3S-R2E41 |
| Diffuse-reflective |  |  100 mm | | E3S-DS10E41 |
| | |  300 mm | | E3S-DS30E41 (42) *2 |
| Convergent-reflective (narrow vision field) |  |  30 to 100 mm (variable) | E3S-LS10XE4 | |
| Convergent-reflective (wide vision field) | |  50 to 250 mm (variable) | E3S-LS20XE4 | |

Note: Sensors with open collectors and different frequencies are available.

*1. Through-beam Sensors are normally sold in sets that include both the Emitter and Receiver.

Orders for individual Emitters and Receivers are accepted.

*2. The difference between the E3S-□□ (□□□) 41 and E3S-□□ (□□□) 42 is in the lens direction when the Sensor is mounted.

For details, refer to the dimensions that are provided on page 10 for the E3S-5E41, page 11 for the E3S-DS30E41, and page 12 for the E3S-5E42 and E3S-DS30E42.

Ratings and Specifications

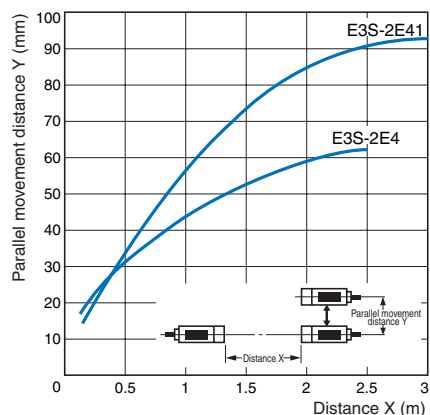
| Sensing method Model Item | Through-beam | | Retro-reflective | Diffuse-reflective | | | Convergent-reflective | | |
|---|---|-----------------------------|-----------------------------|---------------------------------------|-----------------------------------|---------------|--|--|--|
| | E3S-2E4 E3S-2E41 | E3S-5E4 E3S-5E41 (42) | E3S-R2E4 E3S-R2E41 | E3S-DS10E4 E3S-DS10E41 | E3S-DS30E41 (42) | E3S-DS30E4S | E3S-LS10XE4 | E3S-LS20XE4 | |
| Sensing distance | 2 m | 5 m | 0.1 to 2 m | 100 mm (white paper 50 x 50 mm) | 300 mm (white paper 100 x 100) | | 30 to 100 mm Continuously variable (10 x 10 mm) | 50 to 250 mm Continuously variable (50 x 75 mm) | |
| Standard sensing object | Opaque: 7- mm dia. min. | Opaque: 11- mm dia. min. | Opaque: 30- mm dia. min. | Transparent, opaque | | | | | |
| Differential travel | --- | | | 20% max. of setting distance | | | 0.5 mm max. at 30 mm 3 mm max. at 100 mm | 5% max. at 50 to 250 mm | |
| Directional angle | Both emitter and receiver: 3° to 10° | | 3° to 10° | --- | | | | | |
| Light source (wavelength) | Infrared LED (950 nm) | | | | | | RED LED (660 nm) | Infrared LED (950 nm) | |
| Power supply voltage | 12 to 24 VDC ±10%, ripple (p-p): 10% max. | | | | | | | | |
| Current consumption | 50 mA max. (Emitter: 25 mA max., Receiver: 25 mA max.) | | 40 mA max. | | | | | | |
| Control output (solid-state output) | Output current: 1.5 to 4 mA, Load current: 80 mA max. (residual voltage: 2 V max.) → Refer to page 4. | | | | | | | | |
| Response time | Operate or reset: 3 ms max. | | Operate or reset: 1 ms max. | | | | | | |
| Sensitivity adjustment | With an indicator | | | | | | | | |
| Ambient illumination (Receiver side) * | Incandescent lamp: 3,000 lx max. Sunlight: 10,000 lx max. | | | | | | | | |
| Ambient temperature | Operating: -25 to 55°C, Storage: -40 to 70°C (with no icing or condensation) | | | | | | | | |
| Ambient humidity | Operating: 35% to 85%, Storage: 35% to 95% (with no condensation) | | | | | | | | |
| Insulation resistance | 20 MΩ min. at 500 VDC | | | | | | | | |
| Dielectric strength | 1,000 VAC, 50/60 Hz for 1 min | | | | | | | | |
| Vibration resistance (destruction) | 10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions | | | | | | | | |
| Shock resistance (destruction) | 500 m/s ² 3 times each in X, Y, and Z directions | | | | | | | | |
| Degree of protection | IEC IP65 | IEC IP67 | | IEC IP65 | IEC IP67 | | | | |
| Connection method | Pre-wired cable (standard length: 2 m) | | | | | | | | |
| Indicators | Light indicator (red), Stability indicator (green) | | | | | | | | |
| Material | Case | Polybutylene terephthalate | Zinc die-cast | | Polybutylene terephthalate | Zinc die-cast | | | |
| | Lens * | Polycarbonate | | | | | | | |
| | Mounting Bracket | Iron | | | | | | | |

* The ambient operating illumination is the illumination that changes the output ±20% at 200 lx. It is not the operational limit.

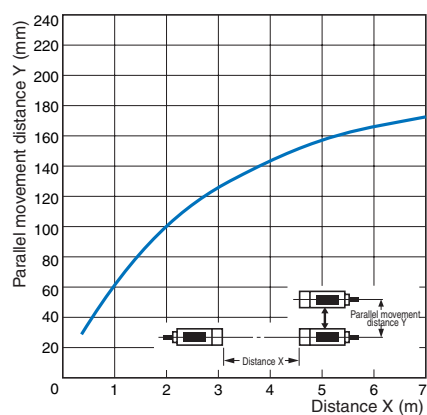
Engineering Data (Typical)

Parallel Operating Range

E3S-2E4 (41)

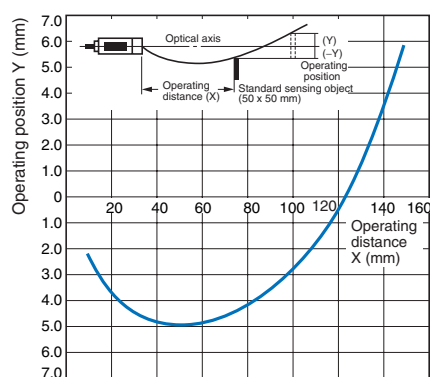


E3S-5E4 (41) (42)

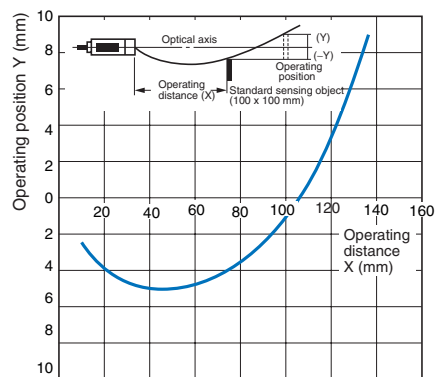


Operating Range

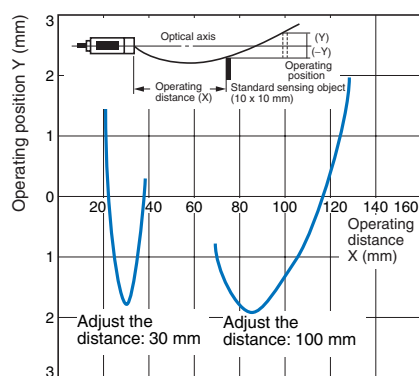
E3S-DS10E4 (41)



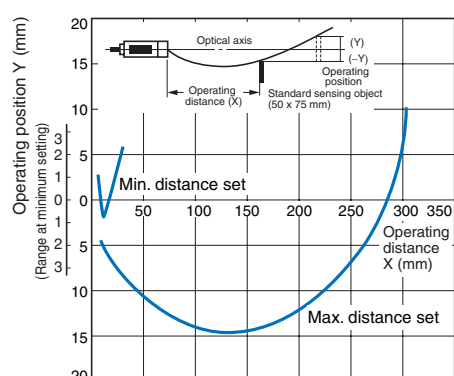
E3S-DS30E4 (41) (42)



E3S-LS10XE4



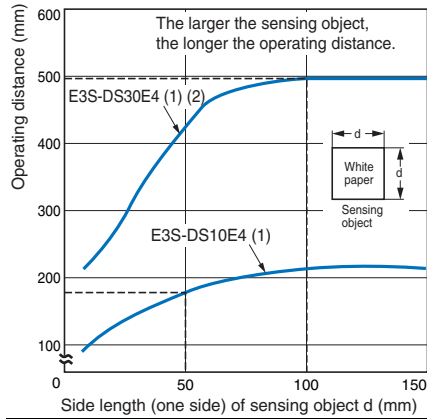
E3S-LS20XE4



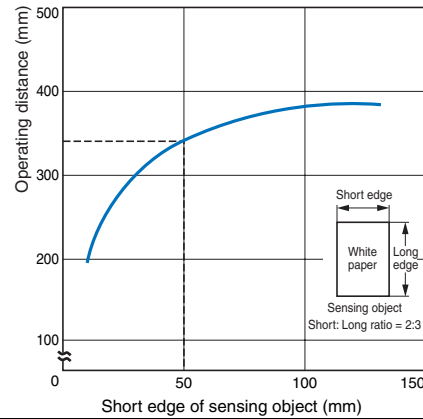
Sensing Distance vs. Size of Sensing Object

E3S-DS30E4 (41) (42)

E3S-DS10E4 (41)

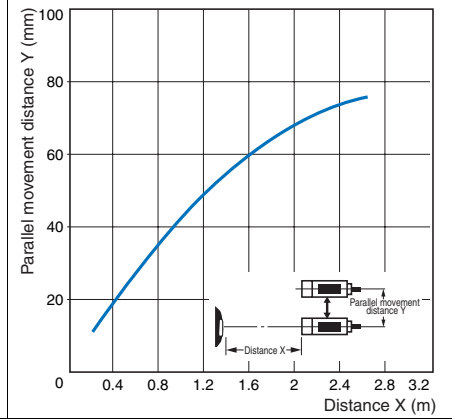


E3S-LS20XE4



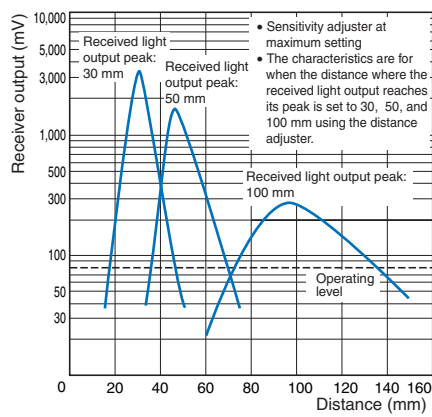
Parallel Operating Range

E3S-R2E4 (41) (42)

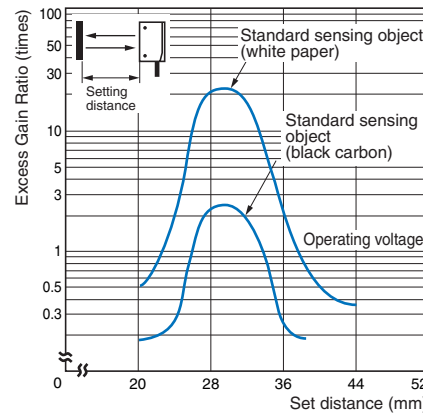


Excess Gain vs. Set Distance

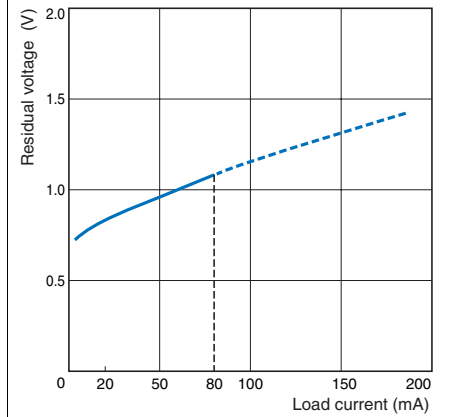
E3S-LS10XE4



E3S-LS3RC4



Load Residual Voltage Characteristics



I/O Circuit Diagrams

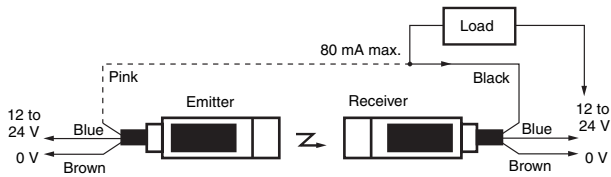
| Model | Wire color | Item Power polarity | Operation mode | Output circuit | Timing charts |
|-------|------------|---------------------|----------------|---|---------------|
| E3S | Brown | + | Light-ON | <p>Z: Zener diode ($V_z = 30\text{ V}$) *1: Reverse the polarity of the power supply to switch the operating mode. *2: Voltage output (when connecting transistor circuit)</p> | |
| | Blue | 0 V | | | |
| | Brown | 0 V | Dark-ON | <p>Z: Zener diode ($V_z = 30\text{ V}$) *1: Reverse the polarity of the power supply to switch the operating mode. *2: Voltage output (when connecting transistor circuit)</p> | |
| | Blue | + | | | |

Connection

● With Relay Load

Through-beam Sensors

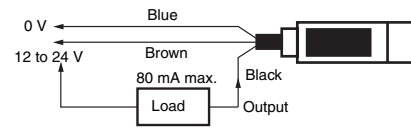
Light Interrupted and Load Operating for E3S-2E4 (41) and -5E4 (41) (42)



Note: The indicator will function as a light indication if the Emitter's pink wire is connected to the Receiver's black wire as indicated by the dotted line. The indicator will function as a power indicator if the Emitter's pink wire is connected to the Emitter's blue wire.

Retro-reflective Sensors

Light Interrupted and Load Operating for E3S-R2E4 (41) (42), -DS10E4(41), and -DS30E4 (41) (42)



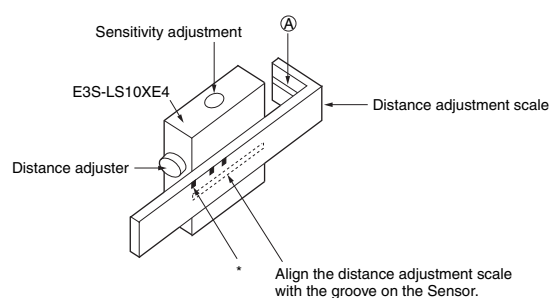
● Connection with S3D2 Sensor Controller

Reverse operation is possible using the signal input switch on the S3D2.

| Sensing method | Through-beam | Reflective |
|-------------------|--------------|------------|
| Connection method | | |

Adjustment Methods

● Adjusting the E3S-LS10XE4 Convergent-reflective Sensor

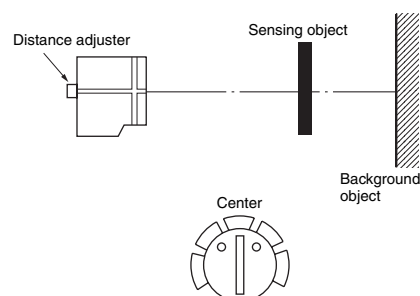


1. Attach the distance adjustment scale as shown in the figure and set it where the * mark is equal to the sensing distance.
2. Turn the distance adjuster until the red spot is at point A (center of the distance adjustment scale).
3. Remove the distance adjustment scale once the distance has been adjusted. Put a sensing object in place, and then adjust the sensitivity.

● Adjusting the E3S-LS20XE4 Convergent-reflective Sensor

Adjustment Method 1

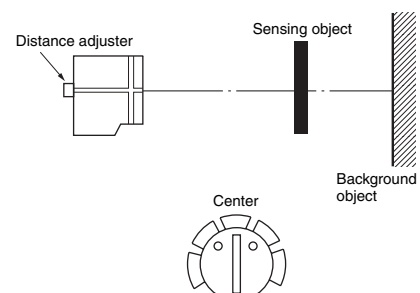
Use this method if the sensing object is more reflective than the background.



1. Set the sensitivity adjuster to the center as shown in the figure.
2. Turn the distance adjuster counterclockwise until it is fully turned (L to S).
3. Position the sensing object.
4. Slowly turn the distance adjuster clockwise (S to L).
5. Eventually the LIGHT (red) indicator will light. Turning the adjuster further will light the STABILITY (green) indicator. Leave the distance adjuster at this level.
6. Adjust the sensitivity in this state.

Adjustment Method 2

Use this method if the background is more reflective than the sensing object.



1. Set the sensitivity adjuster to the center as shown in the figure.
2. Turn the distance adjuster clockwise until it is fully turned (S to L).
3. Remove the sensing object.
4. Slowly turn the distance adjuster counterclockwise (L to S).
5. Eventually the LIGHT (red) indicator will light. Turning the adjuster further will light the STABILITY (green) indicator.
6. Adjust the sensitivity in this state.

Safety Precautions

⚠ WARNING

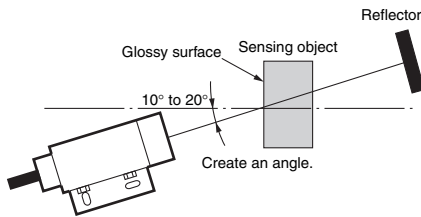
This product is not designed or rated for ensuring safety of persons. Do not use it for such purposes.



Precautions for Correct Use

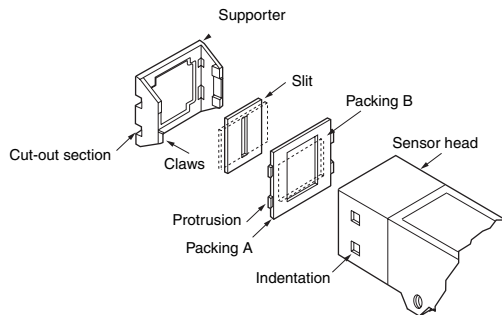
Do not use the product in atmospheres or environments that exceed product ratings.

If the sensing object has a metallic or shiny surface, the E3S-R may not detect it properly. To avoid this situation, place the sensing object so that it is not at right angles to the Photoelectric Sensor.



● Attaching the E39-S Slit

- The Slit can be fitted vertically or horizontally as indicated by the dotted line. Make sure that Slits for the Emitter and the Receiver are fitted in the same orientation.
- Place the packing in the supporter and hook the claws on the indentations in the Sensor head.
- If the supporter is contacting the mounting surface, insert a spacer to separate it. (Refer to *Slit Dimensions*.)
- An operating position accuracy of 0.1 mm max. can be achieved for a Through-beam Sensor without Slits.



Sensor with Slits

| Applicable Photoelectric Sensor Model | E3S-5E4, -5E41 (42) | | | | E3S-2E4, -2E41 | | | |
|---------------------------------------|---------------------|--------|--------|---------|----------------|--------|--------|--------|
| | E39-S1 | | | | E39-S2 | | | |
| Item | Slit width | 0.5 mm | 1 mm | 2 mm | 4 mm | 0.5 mm | 1 mm | 2 mm |
| Sensing distance | | 230 mm | 580 mm | 1200 mm | 2500 mm | 170 mm | 420 mm | 820 mm |
| Sensing object | | 0.5 mm | 1 mm | 2 mm | 4 mm | 0.5 mm | 1 mm | 2 mm |
| Degree of protection | | IP60 | | | | | | |

● Sensors with Open-collector Outputs

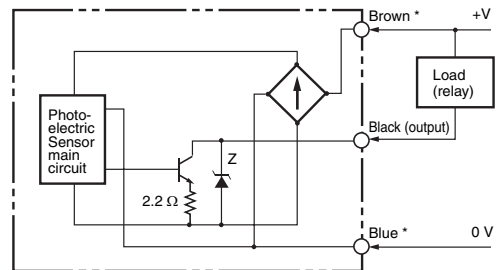
Sensors with Open-collector Outputs

| Type | Output type | Output transistor | Rated current output | Switching current | Output protection circuit |
|------|---------------------------|-------------------|----------------------|------------------------|---|
| E | Voltage or current output | NPN | 1.5 to 4 mA | 80 mA max. (sinking) | Provided against an increase in the residual output voltage |
| C | Open-collector output | NPN | — | 100 mA max. (sinking) | Provided: Output transistor cutoff |
| B | Open-collector output | PNP | — | 100 mA max. (sourcing) | Provided: Output transistor cutoff |

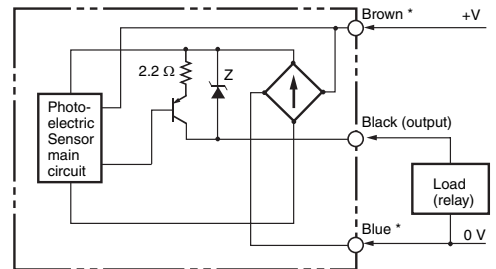
The model numbers are as follows:

- Example:
 E3S-DS10E4 (E type)
 E3S-DS1C4 (C type)
 E3S-DS1B4 (B type)

C4 (C41, C42) Sensors



C4 (B41, B42) Sensors



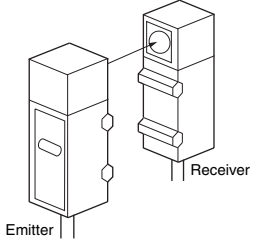
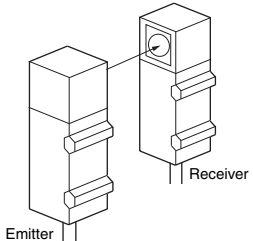
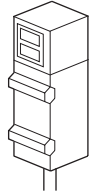
Z: Zener diode (Vz = 30 V)

* The operation mode depends on the wiring of the brown and blue lines.

- Note 1. Only C42 models with die-cast cases are available.
 2. The Emitter for a Through-beam C4-type Sensor is the same as the Emitter for an E4-type Sensor. (E.g., E3S-5LE4)
 3. When a C- or B- type Sensor experiences a load short-circuit or overload, the output transistor will be turned OFF. Check the load conditions before turning the power back ON.

● Sensors with Different Orientations

The E3S-5, E3S-DS30, and E3S-R2 that sense in different directions can be made.

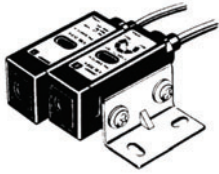
| Sensing method | Sensing direction |
|--|---|
| Through-beam | E3S-5E43  |
| | E3S-5E44  |
| Retro-reflective Diffuse-reflective | E3S-DS30E43 E3S-R2E43  |

Dimensions

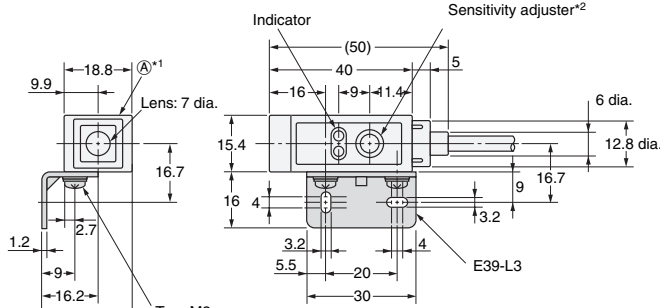
Unless otherwise specified, the tolerance class IT16 is used for dimensions in this data sheet.

General-purpose Sensors

E3S-2E4

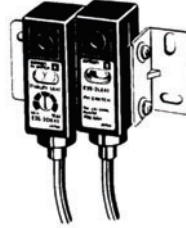


4-dia. vinyl-insulated round cable with 2/3 conductors
(Conductor cross section: 0.2 mm²,
Insulator diameter: 1.1 mm),
Standard length: 2 m
Weight: Emitter and Receiver, 80 g each

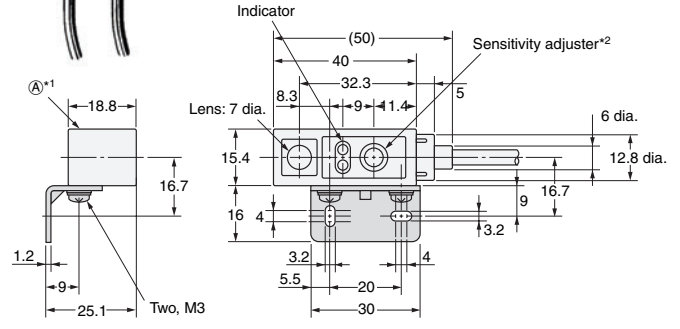


*1 The mounting bracket can also be used on side (A).
*2 Receiver only.

E3S-2E41

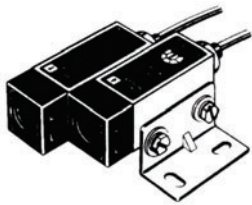


4-dia. vinyl-insulated round cable with 2/3 conductors
(Conductor cross section: 0.2 mm², Insulator diameter: 1.1 mm),
Standard length: 2 m
Weight: Emitter and Receiver, 80 g each

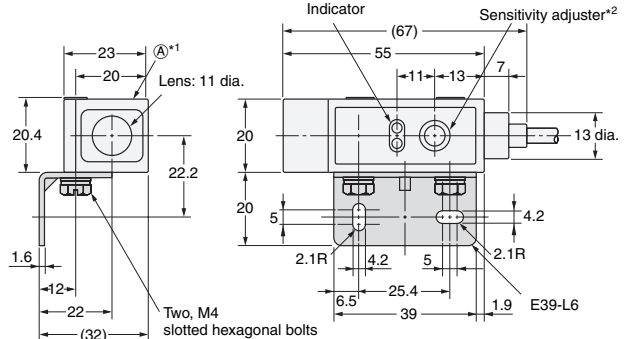


*1 The mounting bracket can also be used on side (A).
*2 Receiver only.

E3S-5E4

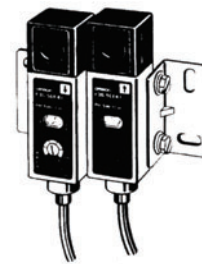


4-dia. vinyl-insulated round cable with 2/3 conductors
(Conductor cross section: 0.2 mm²,
Insulator diameter: 1.1 mm),
Standard length: 2 m
Weight: Emitter and Receiver, 155 g each

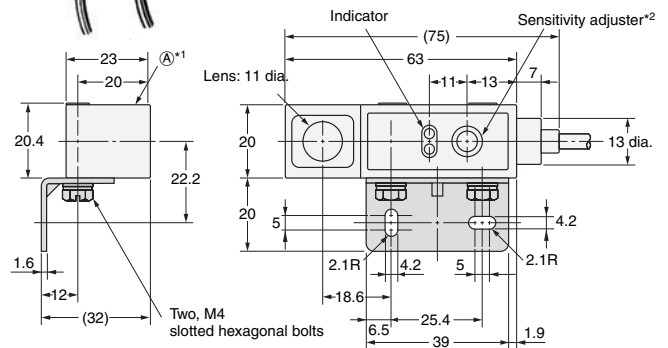


*1 The mounting bracket can also be used on side (A).
*2 Receiver only.

E3S-5E41



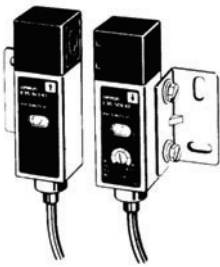
4-dia. vinyl-insulated round cable with 2/3 conductors
(Conductor cross section: 0.2 mm², Insulator diameter: 1.1 mm),
Standard length: 2 m
Weight: Emitter and Receiver, 165 g each



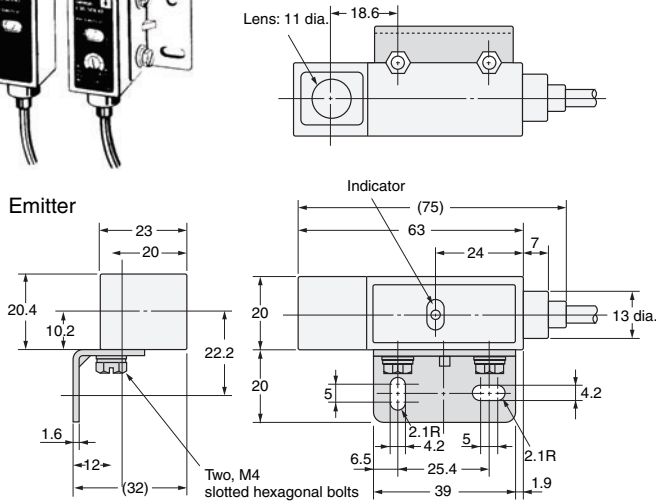
*1 The mounting bracket can also be used on side (A).
*2 Receiver only.

Note: Models numbers for Through-beam Sensors (E3S-□E4, E3S-□E41) are for sets that include both the Emitter and Receiver.
The model number of the Emitter is expressed by adding "L" to the set model number (example: E3S-2LE4), the model number of the Receiver, by adding "D"
(example: E3S-2DE4.) Refer to Ordering Information to confirm model numbers for Emitter and Receivers.

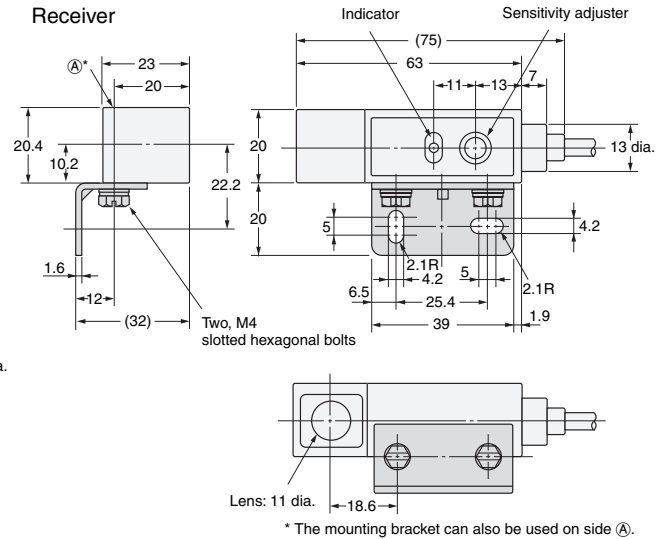
E3S-5E42



4-dia. vinyl-insulated round cable with 2/3 conductors
(Conductor cross section: 0.2 mm²,
Insulator diameter: 1.1 mm),
Standard length: 2 m
Weight: Approx. 165 g



Receiver

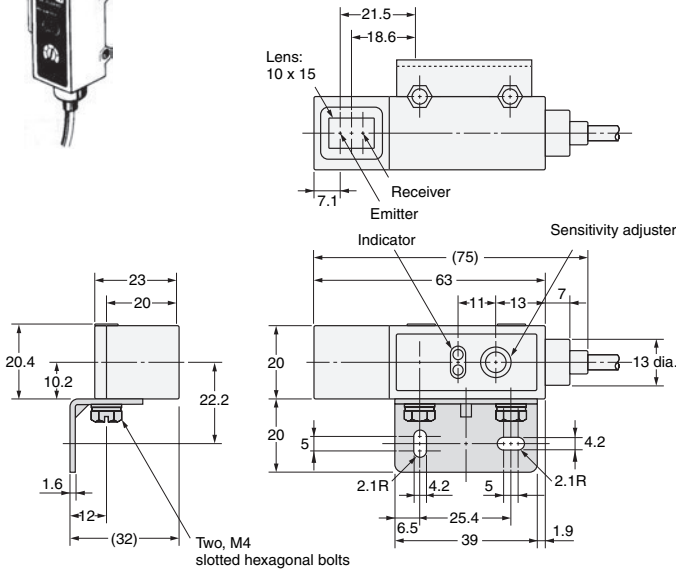


E3S-R2E4

E3S-DS30E42

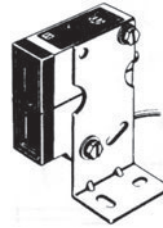


4-dia. vinyl-insulated round cable with 3 conductors
(Conductor cross section: 0.2 mm², Insulator diameter: 1.1 mm),
Standard length: 2 m
Weight: Approx. 165 g

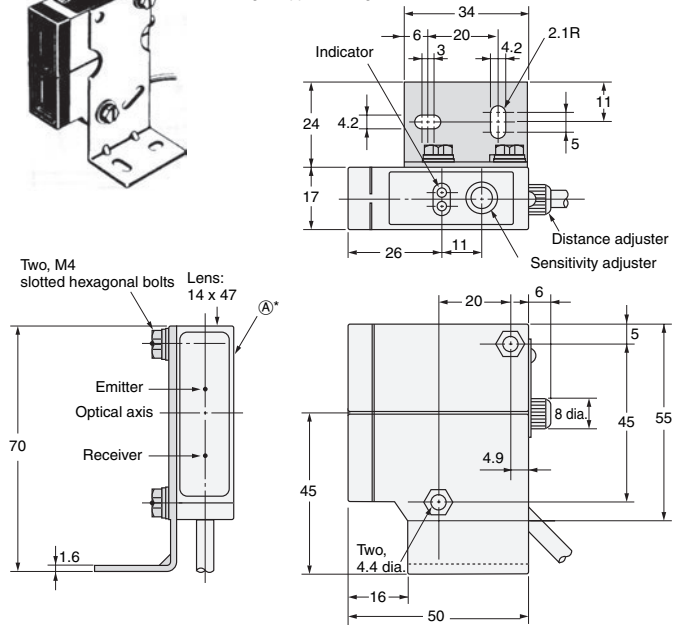


E3S-LS10XE4

E3S-LS20XE4



4-dia. vinyl-insulated round cable with 3 conductors
(Conductor cross section: 0.2 mm², Insulator diameter: 1.1 mm),
Standard length: 2 m
Weight: Approx. 225 g



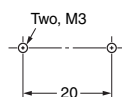
Note: Models numbers for Through-beam Sensors (E3S-5E42) are for sets that include both the Emitter and Receiver.

The model number of the Emitter is expressed by adding "L" to the set model number (example: E3S-5LE42), the model number of the Receiver, by adding "D"
(example: E3S-5DE42.) Refer to Ordering Information to confirm model numbers for Emitter and Receivers.

Mounting Hole Dimensions

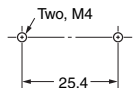
E3S-2E4
E3S-2E41
E3S-DS10E4
E3S-DS10E41

E3S-LS10XE4
E3S-LS20XE4



E3S-5E4
E3S-5E41
E3S-R2E4
E3S-R2E41 (42)

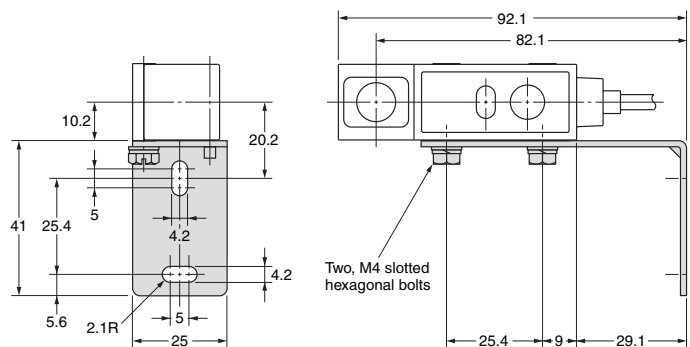
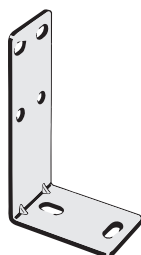
E3S-DS30E4
E3S-DS30E41 (42)



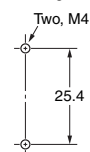
Accessories (Order Separately)

Special Mounting Bracket

E39-L2

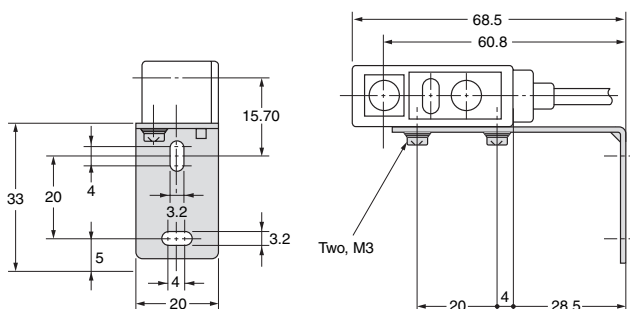
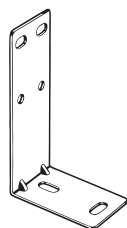


Mounting Holes

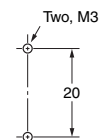


Applicable models:
E3S-5E41
E3S-R2E41
E3S-DS30E41

E39-L4



Mounting Holes

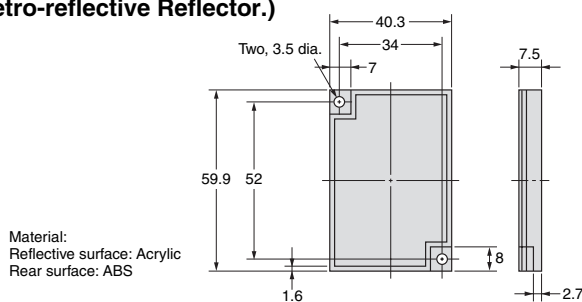


Applicable models:
E3S-2E41
E3S-DS10E41

Reflector

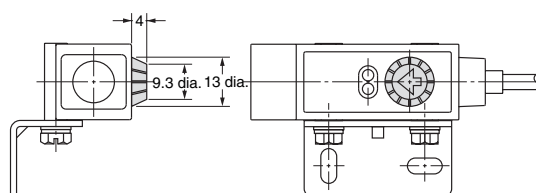
E39-R1

(Provided with the E3S-R2E4(41) Retro-reflective Reflector.)



Sensitivity Adjuster (Provided)

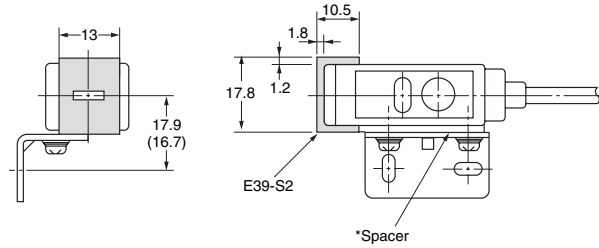
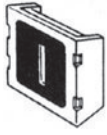
E39-G1



Applicable models:
Provided with the E3S-5E4(41), E3S-DS30E4(41), E3S-R2E4(41).
Note: Cannot be used for the E3S-DS10E4 (41).

Slit (Order Separately)

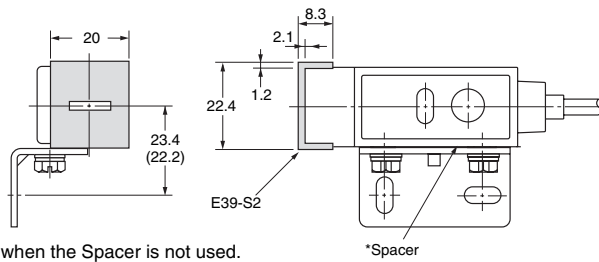
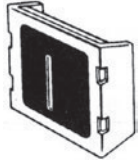
E39-S2



| Slit | E39-S2 |
|--------------------|---------------------|
| Applicable Sensors | E3S-2E4 E3S-2E41 |

Note 1. Three sets of slits are provided:
6.5 x 0.5 mm, 6.5 x 1 mm and 6.5 x 2 mm
2. One set consists of two slits, one each for the Emitter and Receiver.

E39-S1



| Slit | E39-S1 |
|--------------------|---------------------|
| Applicable Sensors | E3S-5E4 E3S-5E41 |

Note 1. Four sets of slits are provided:
11 x 0.5 mm, 11 x 1 mm, 11 x 2 mm,
and 11 x 4 mm
2. One set consists of two slits, one each for the Emitter and Receiver.

Note: The dimensions in parentheses are for when the Spacer is not used.

* With the E3S-2E4 (41), use the Spacer as shown in the figure above so that the supporter and Mounting Bracket will not be struck when the optical axis is adjusted.

With the E3S-5E4 (41), the Spacer is not particularly required. Use the Spacer, however, to directly mount both the E3S-2E4 (41) and -5E4 (41).

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2011.9

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