

**Mounting Brackets** [Refer to *Dimensions* on page 5.]

| Model           | Fitting materials           | Count | Accessories                                                         |                                          |        | Applicable sensor<br>(mounting pitch on sensor side)          | Page<br>Dimensions |
|-----------------|-----------------------------|-------|---------------------------------------------------------------------|------------------------------------------|--------|---------------------------------------------------------------|--------------------|
|                 |                             |       | Description                                                         | Material                                 | Count  |                                                               |                    |
| <b>E39-L31</b>  | Iron, zinc plating          | 1     | Slotted/Phillips screws M3 × 12<br>(with spring washers)            | Iron, zinc plating                       | 2      | E3C-S50 (8)                                                   | 5                  |
| <b>E39-L40</b>  | Iron, zinc plating          | 1     | Phillips screws M4 × 25<br>(with spring and plain washers)          | Iron, zinc plating                       | 2      | E3JK                                                          |                    |
|                 |                             |       | Nuts M4                                                             | Iron, zinc plating                       | 2      |                                                               |                    |
| <b>E39-L41</b>  | Iron, zinc plating          | 2     | Phillips screws M3 × 14<br>(with spring washers)                    | Iron, zinc plating                       | 4      | E3C-1 (10)                                                    |                    |
|                 |                             |       | Plain washer M3                                                     | Iron, zinc plating                       | 4      |                                                               |                    |
| <b>E39-L42</b>  | Iron,<br>black coating      | 2     | Phillips screws M3 × 10<br>(with spring washers)<br>Plain washer M3 | Iron, zinc plating<br>Iron, zinc plating | 4<br>4 | E3C-2 (20)<br>E3C-DS10 (19)<br>E3C-VS1G (19)<br>E3C-VS3R (19) | 6                  |
| <b>E39-L43</b>  | Stainless steel<br>(SUS304) | 1     | Slotted/Phillips screws M3 × 8<br>(with spring and plain washers)   | Stainless steel (SUS304)                 | 2      | E3Z pre-wired model<br>(25.4)                                 |                    |
| <b>E39-L44</b>  | Stainless steel<br>(SUS304) | 1     | Slotted/Phillips screws M3 × 8<br>(with spring and plain washers)   | Stainless steel (SUS304)                 | 2      | E3Z pre-wired model<br>(25.4)                                 |                    |
| <b>E39-L51</b>  | Iron, zinc plating          | 1     | Slotted/Phillips screws M4 × 30<br>(with spring and plain washers)  | Iron, zinc plating                       | 2      | E3JM (40)                                                     |                    |
|                 |                             |       | Nuts M4                                                             | Iron, nickel plating                     | 2      |                                                               |                    |
| <b>E39-L53</b>  | Iron, zinc plating          | 1     | ---                                                                 | ---                                      | ---    | E3JM (40)                                                     | 7                  |
| <b>E39-L54V</b> | Stainless steel<br>(SUS304) | 1     | ---                                                                 | ---                                      | ---    | E32-T54V                                                      |                    |
| <b>E39-L83</b>  | Stainless steel             | 1     | ---                                                                 | ---                                      | ---    | E32-T24S<br>E32-A03                                           |                    |
| <b>E39-L85</b>  | Stainless steel<br>(SUS304) | 1     | Hexagonal bolts M4 × 12<br>(with spring and plain washers)          | Iron, zinc plating                       | 2      | E3S-C (25.4)                                                  |                    |
| <b>E39-L86</b>  | Stainless steel<br>(SUS304) | 1     | Hexagonal bolts M4 × 12<br>(with spring and plain washers)          | Iron, zinc plating                       | 2      | E3S-C (25.4)                                                  |                    |
| <b>E39-L87</b>  | Stainless steel<br>(SUS304) | 1     | Hexagonal bolts M4 × 12<br>(with spring and plain washers)          | Iron, zinc plating                       | 2      | E3S-C (25.4)                                                  |                    |

Note:  Applicable models that appear shaded come with the Mounting Brackets at left as accessories.

| Model                                                           | Fitting materials        | Count | Accessories                                                     |                          |       | Applicable sensor<br>(mounting pitch on sensor side)                      | Page<br>Dimensions |
|-----------------------------------------------------------------|--------------------------|-------|-----------------------------------------------------------------|--------------------------|-------|---------------------------------------------------------------------------|--------------------|
|                                                                 |                          |       | Description                                                     | Material                 | Count |                                                                           |                    |
| <b>E39-L93FH</b>                                                | Stainless steel (SUS304) | 1     | Holder (upper)                                                  | Heat-resistant ABS resin | 1     | E3Z (25.4)<br>E39-R1/E39-R3                                               | 8                  |
| <b>E39-L93FV</b>                                                | Stainless steel (SUS304) | 1     | Holder (lower)                                                  | 66 nylon                 | 1     |                                                                           |                    |
|                                                                 |                          |       | Pipe                                                            | Stainless steel (SUS304) | 1     |                                                                           |                    |
| <b>E39-L93H</b>                                                 | Stainless steel (SUS304) | 1     | Bolts M4 × 12 with Hexagonal holes                              | Iron, nickel plating     | 2     |                                                                           |                    |
|                                                                 |                          |       | Bolts M4 × 30 with hexagonal holes                              | Iron, nickel plating     | 1     |                                                                           |                    |
| <b>E39-L93V</b>                                                 | Stainless steel (SUS304) | 1     | Phillips screws M3 × 12 (with spring and plain washers)         | Stainless steel (SUS304) | 2     |                                                                           |                    |
|                                                                 |                          |       | Spring washer M4                                                | Iron, nickel plating     | 1     | E3Z (25.4)<br>E39-R1/E39-R3                                               | 9                  |
|                                                                 |                          |       | Plain washer M4                                                 | Iron, nickel plating     | 1     |                                                                           |                    |
| <b>E39-L93XY</b>                                                | ---                      | ---   | Nuts M4                                                         | Iron, nickel plating     | 3     |                                                                           |                    |
|                                                                 |                          |       | Holder                                                          | 66 nylon                 | 1     |                                                                           |                    |
|                                                                 |                          |       | Pipe                                                            | Stainless steel (SUS304) | 1     |                                                                           |                    |
|                                                                 |                          |       | Bolts M5 × 16 with hexagonal holes                              | Stainless steel (SUS304) | 2     |                                                                           |                    |
| <b>E39-L94</b>                                                  | Iron, zinc plating       | 2     | Phillips screws M3 × 10                                         | Iron, zinc plating       | 4     | E3Z (25.4)<br>E39-R1/E39-R3                                               | 10                 |
| <b>E39-L96</b><br>* For installation of Sensor Adjuster E39-L93 | Stainless steel (SUS304) | 1     | Nuts M3                                                         | Iron, zinc plating       | 4     | E32-T16P (19)<br>E32-T16PR (19)                                           |                    |
| <b>E39-L98</b>                                                  | Stainless steel (SUS304) | 1     | Phillips screws M3 × 6 (with spring and plain washers)          | Iron, nickel plating     | 2     | E32-T16P (19)<br>E32-T16PR (19)                                           |                    |
| <b>E39-L102</b>                                                 | Stainless steel (SUS304) | 1     | Slotted/Phillips screws M3 × 12 (with spring and plain washers) | Stainless steel (SUS304) | 2     | E3Z pre-wired model (25.4)                                                |                    |
| <b>E39-L103</b>                                                 | Stainless steel (SUS304) | 1     | Hexagonal bolts M4 × 12 (with spring and plain washers)         | Iron, zinc plating       | 2     | E3S-C (horizontal type) (25.4)                                            | 11                 |
| <b>E39-L104</b>                                                 | Stainless steel (SUS304) | 1     | Hexagonal bolts M4 × 12 (with spring and plain washers)         | Iron, zinc plating       | 2     | E3S-C (vertical type) (25.4)                                              |                    |
| <b>E39-L116</b>                                                 | Stainless steel (SUS304) | 1     | Slotted/Phillips screws M3 × 8 (with spring and plain washers)  | Stainless steel (SUS304) | 2     | E3Z pre-wired model (25.4)<br>E32-R21 (for installation of E39-R3) (25.4) |                    |
| <b>E39-L117</b>                                                 | Stainless steel (SUS304) | 1     | Nut plate                                                       | Stainless steel (SUS304) | 1     | E3T-S (9/15)                                                              |                    |
| <b>E39-L118</b>                                                 | Stainless steel (SUS304) | 1     | Nut plate                                                       | Stainless steel (SUS304) | 1     | E3T-S (9/15)                                                              | 11                 |
| <b>E39-L119</b>                                                 | Stainless steel (SUS304) | 1     | Nut plate                                                       | Stainless steel (SUS304) | 1     | E3T-S (9/15)                                                              |                    |
| <b>E39-L120</b>                                                 | Stainless steel (SUS304) | 1     | ---                                                             | ---                      | ---   | E3T-F (8)                                                                 |                    |
| <b>E39-L127-T1</b>                                              | Iron, zinc plating       | 1     | ---                                                             | ---                      | ---   | E3T-F (8)                                                                 |                    |
| <b>E39-L127-T2</b>                                              | Iron, zinc plating       | 1     | Phillips screws M2.3 × 8                                        | Iron, zinc plating       | 4     | E3C-S10 (7.5)                                                             | 11                 |
| <b>E39-L127-T3</b>                                              | Iron, zinc plating       | 1     | Spring washer M2.3                                              | Iron, zinc plating       | 4     |                                                                           |                    |
| <b>E39-L127-T4</b>                                              | Iron, zinc plating       | 1     | Phillips screws M2.3 × 8                                        | Iron, zinc plating       | 4     |                                                                           |                    |
| <b>E39-L127-T5</b>                                              | Iron, zinc plating       | 1     | Spring washer M2.3                                              | Iron, zinc plating       | 4     |                                                                           |                    |

Note: Applicable models that appear shaded come with the Mounting Brackets at left as accessories.

| Model    | Fitting materials                | Count | Accessories                                                                                                     |                                                                                                                                                                              |                            | Applicable sensor<br>(mounting pitch on sensor side)    | Page<br>Dimensions |
|----------|----------------------------------|-------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------------------------|--------------------|
|          |                                  |       | Description                                                                                                     | Material                                                                                                                                                                     | Count                      |                                                         |                    |
| E39-L131 | Stainless steel (SUS304)         | 1     | Slotted/Phillips screws M4 × 25<br>Spring washer M4<br>Plain washer M4<br>Nuts M4                               | Stainless steel (SUS304)<br>Stainless steel (SUS304)<br>Stainless steel (SUS304)<br>Stainless steel (SUS304)                                                                 | 2<br>2<br>2<br>2           | E3G-R1□ (25)<br>E3G-L7□ (25)                            | 12                 |
| E39-L132 | Stainless steel (SUS304)         | 1     | Slotted/Phillips screws M4 × 25<br>Spring washer M4<br>Plain washer M4<br>Nuts M4                               | Stainless steel (SUS304)<br>Stainless steel (SUS304)<br>Stainless steel (SUS304)<br>Stainless steel (SUS304)                                                                 | 2<br>2<br>2<br>2           | E3G-R1□ (25)<br>E3G-L7□ (25)                            |                    |
| E39-L135 | Stainless steel (SUS304)         | 1     | Slotted/Phillips screws M4 × 35<br>Spring washer M4<br>Plain washer M4<br>Nuts M4                               | Stainless steel (SUS304)<br>Stainless steel (SUS304)<br>Stainless steel (SUS304)<br>Stainless steel (SUS304)                                                                 | 2<br>2<br>2<br>2           | E3G-MR19 (T)<br>E3G-ML79 (T)                            |                    |
| E39-L136 | Stainless steel (SUS304)         | 1     | Slotted/Phillips screws M4 × 35<br>Spring washer M4<br>Plain washer M4<br>Nuts M4                               | Stainless steel (SUS304)<br>Stainless steel (SUS304)<br>Stainless steel (SUS304)<br>Stainless steel (SUS304)                                                                 | 2<br>2<br>2<br>2           | E3G-MR19 (T)<br>E3G-ML79 (T)                            |                    |
| E39-L142 | Stainless steel (SUS304)         | 1     | Slotted/Phillips screws M3 × 8 (with spring and plain washers)                                                  | Stainless steel (SUS304)                                                                                                                                                     | 2                          | E3Z pre-wired model (25.4)                              |                    |
| E39-L143 | Stainless steel (SUS304)         | 1     | None                                                                                                            | ---                                                                                                                                                                          | ---                        | E3X-DA-S/MDA<br>E3X-NA<br>E3C-LDA<br>E2C-EDA<br>E4C-UDA | 13                 |
| E39-L144 | Stainless steel (SUS304)         | 1     | Slotted/Phillips screws M3 × 12 (with spring and plain washers)                                                 | Stainless steel (SUS304)                                                                                                                                                     | 2                          | E3Z pre-wired model (25.4)                              |                    |
| E39-L148 | Stainless steel (SUS304)         | 1     | None                                                                                                            | ---                                                                                                                                                                          | ---                        | E3X-NA                                                  |                    |
| E39-L149 | Iron, black coating              | 1     | None                                                                                                            | ---                                                                                                                                                                          | ---                        | E3Z-G                                                   |                    |
| E39-L150 | Stainless steel (SUS304)         | 1     | Holder/bracket<br>Shaft (brace)<br>Bolt with hexagonal hole<br>Nut<br>Phillips screw<br>Slotted/Phillips screws | PBT (polybutylene terephthalate)<br>Stainless steel (SUS304)<br>Stainless steel (SUSXM7)<br>Stainless steel (SUS304)<br>Stainless steel (SUSXM7)<br>Stainless steel (SUS304) | 1<br>1<br>1<br>1<br>1<br>2 | E3Z (25.4)<br>E3S-R6□/R8□ (20)<br>E39-R3                | 14                 |
| E39-L151 | Stainless steel (SUS304)         | 1     | Holder/bracket<br>Shaft (brace)<br>Bolt with hexagonal hole<br>Nut<br>Phillips screw<br>Slotted/Phillips screws | PBT (polybutylene terephthalate)<br>Stainless steel (SUS304)<br>Stainless steel (SUSXM7)<br>Stainless steel (SUS304)<br>Stainless steel (SUSXM7)<br>Stainless steel (SUS304) | 1<br>1<br>1<br>1<br>1<br>2 | E3Z (25.4)<br>E3S-R6□/R8□ (20)<br>E39-R3                |                    |
| E39-L153 | Stainless steel (SUS304)         | 1     | Slotted/Phillips screws M3 × 8 (with spring and plain washers)                                                  | Stainless steel (SUSXM7)<br>Stainless steel (SUS304)                                                                                                                         | 2                          | E3Z pre-wired model (25.4)                              |                    |
| E39-L166 | Stainless steel (SUS304)         | 1     | Nut plate                                                                                                       | Stainless steel (SUS304)                                                                                                                                                     | 1                          | E3T-S□□M (13/16)                                        |                    |
| E39-L167 | Stainless steel (SUS304)         | 1     | ---                                                                                                             | ---                                                                                                                                                                          | ---                        | E3T-FD□□M (8)                                           | 15                 |
| E39-L168 | PBT (polybutylene terephthalate) | 1     | ---                                                                                                             | ---                                                                                                                                                                          | ---                        | E3T-FD□□M                                               |                    |
| E39-L180 | Stainless steel (SUS304)         | 1     | Phillips screw<br>Nut plate                                                                                     | Stainless steel                                                                                                                                                              | 2<br>1                     | ZX1-LD50□<br>ZX1-LD100□                                 |                    |
| E39-L181 | Stainless steel (SUS304)         | 1     | Phillips screw<br>Nut plate                                                                                     | Stainless steel                                                                                                                                                              | 2<br>1                     | ZX1-LD300□<br>ZX1-LD600□                                |                    |

Note: Applicable models that appear shaded come with the Mounting Brackets at left as accessories.

## Slits

| Model    | Slit width                 | Installation procedure | Applicable type               |
|----------|----------------------------|------------------------|-------------------------------|
| E39-S39  | Width 1 × 20 mm            | Seal type              | E3JM-10□4 (T)-N<br>E3JK-5□□-N |
| E39-S61  | Width 0.5, 1, 2, 4 × 11 mm | Plug-in type           | E3S-CT□1                      |
| E39-S63  | 0.5-mm dia., 1 mm          |                        | E3T-ST1□                      |
| E39-S64  | 0.5-mm dia., 1 mm          |                        | E3T-FT1□                      |
| E39-S65A | 0.5 mm dia.                |                        | E3Z-T□□                       |
| E39-S65B | 1-mm dia.                  |                        |                               |
| E39-S65C | 2-mm dia.                  |                        |                               |
| E39-S65D | Width 0.5 × 10 mm          |                        |                               |
| E39-S65E | Width 1 × 10 mm            |                        |                               |
| E39-S65F | Width 2 × 10 mm            |                        |                               |
| E39-S68  | Width 0.5, 1 × 13.4 mm     | Seal type              | E32-T16P<br>E32-T16PR         |
| E39-S76A | 0.5-mm dia.                | Plug-in type           | E3T-ST□M                      |
| E39-S76B | 1-mm dia.                  |                        |                               |

Note: Applicable models that appear shaded come with the Slits at left as accessories

Reflectors (Refer to *Dimensions* on page 16.)

| Name                                | Reflectors  |        | Non-fogging reflective plate | Reflectors  |             |            | Special Reflector for E3ZM-B |             |
|-------------------------------------|-------------|--------|------------------------------|-------------|-------------|------------|------------------------------|-------------|
| Item                                | Model       | E39-R1 | E39-R1S                      | E39-R1K     | E39-R2      | E39-R6     | E39-R10                      | E39-RP1     |
| Directional angle                   | 30° min. *1 |        |                              | 30° min. *2 | 30° min.    |            |                              |             |
| Ambient operating temperature range | -25 to 55°C |        |                              |             |             |            |                              | -40 to 60°C |
| Ambient storage temperature range   | -40 to 70°C |        | -40 to 55°C                  |             | -40 to 70°C |            |                              |             |
| Ambient operating humidity range    | 35% to 85%  |        |                              |             |             | 35% to 95% |                              | 35% to 85%  |
| Ambient storage humidity range      | 35% to 95%  |        |                              |             |             |            |                              |             |
| Degree of protection                | IEC IP67    |        |                              |             |             |            |                              |             |
| Accessories                         | ---         |        |                              |             |             |            |                              |             |

\*1. 40° or higher for E3JM-R and E3JK-R.

\*2. 40° or higher for E3G-R.

| Name                                | Small reflector |                                          |        |                                                    | Tape reflector * |                       |                       |                       |
|-------------------------------------|-----------------|------------------------------------------|--------|----------------------------------------------------|------------------|-----------------------|-----------------------|-----------------------|
| Item                                | Model           | E39-R9                                   | E39-R3 | E39-R4                                             | E39-R37-CA *     | E39-RS1<br>E39-RS1-CA | E39-RS2<br>E39-RS2-CA | E39-RS3<br>E39-RS3-CA |
| Directional angle                   | 30° min.        |                                          |        |                                                    |                  |                       |                       |                       |
| Ambient operating temperature range | −25 to 55°C     |                                          |        |                                                    |                  |                       |                       |                       |
| Ambient storage temperature range   | −40 to 70°C     |                                          |        |                                                    | 0 to 40°C        |                       |                       |                       |
| Ambient operating humidity range    | 35% to 95%      | 35% to 85%                               |        |                                                    |                  |                       |                       |                       |
| Ambient storage humidity range      | 35% to 95%      |                                          |        |                                                    | 35% to 85%       |                       |                       |                       |
| Degree of protection                | IEC IP67        |                                          |        |                                                    |                  |                       |                       |                       |
| Accessories                         | ---             | Mounting Brackets E39-L104 (with screws) | ---    | Phillips screws M3 × 3, spring washers M3, nuts M3 | ---              |                       |                       |                       |

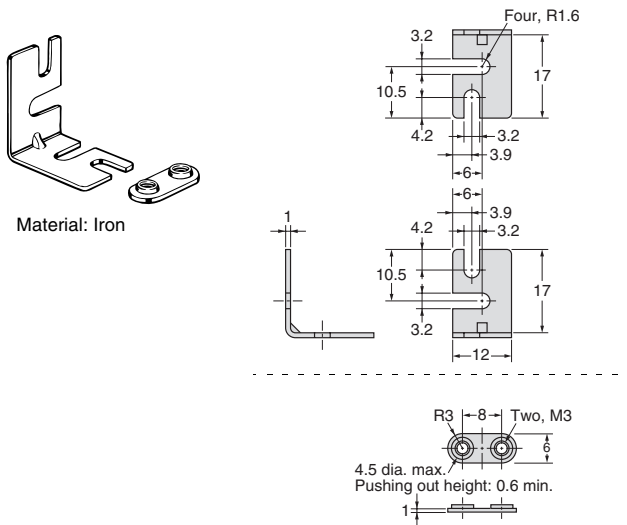
\* Models ending in the suffix "-CA" are reflectors only for E3T-SR4□.

| Item                                   | Name<br>Model | Laser Reflectors            |         |                                                  |                    |
|----------------------------------------|---------------|-----------------------------|---------|--------------------------------------------------|--------------------|
|                                        |               | Standard                    |         | Short-distance transpar-<br>ent object detection | Sheets             |
|                                        |               | E39-R12                     | E39-R13 | E39-R14                                          | E39-RS4<br>E39-RS5 |
| Ambient operating<br>temperature range |               | -10 to 55°C (No icing)      |         |                                                  |                    |
| Ambient storage<br>temperature range   |               | -25 to 70°C (No icing)      |         |                                                  |                    |
| Ambient operating<br>humidity range    |               | 35 to 85% (No condensation) |         |                                                  |                    |
| Ambient storage<br>humidity range      |               | 35 to 85% (No condensation) |         |                                                  |                    |

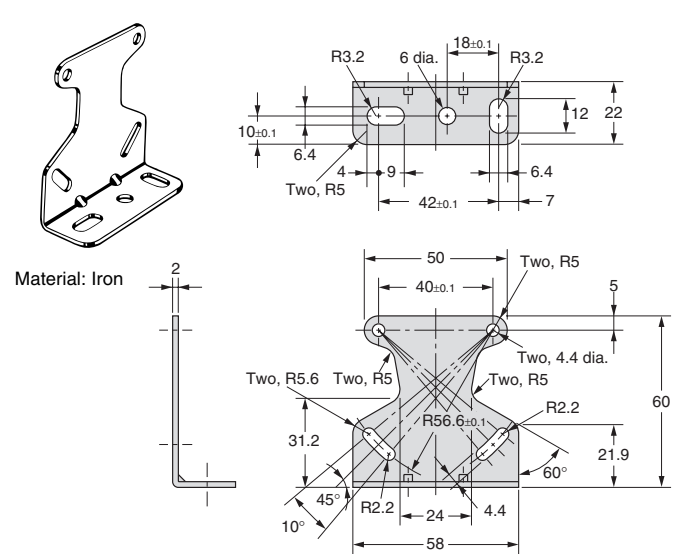
## Mounting Bracket Dimensions

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

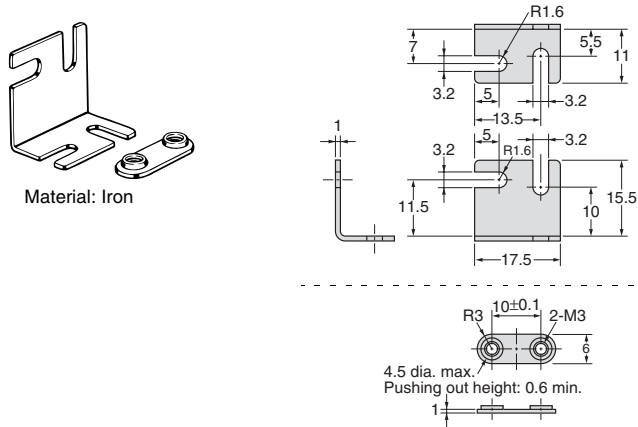
### E39-L31



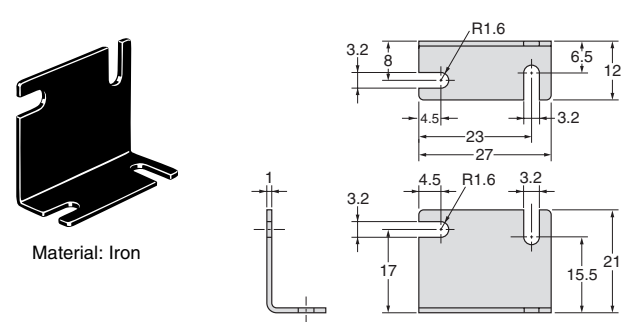
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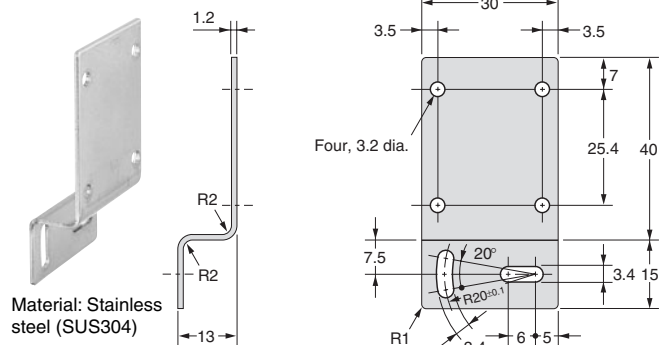
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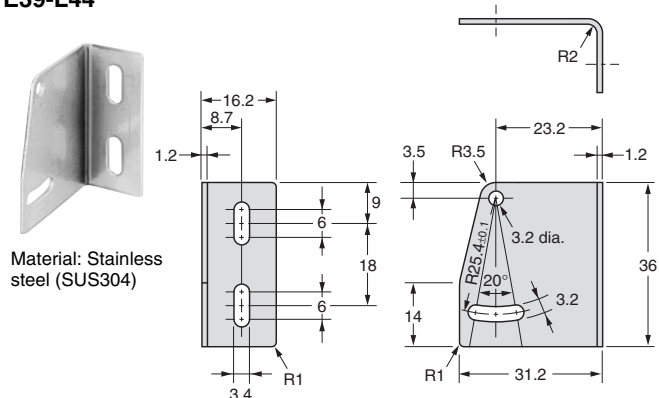
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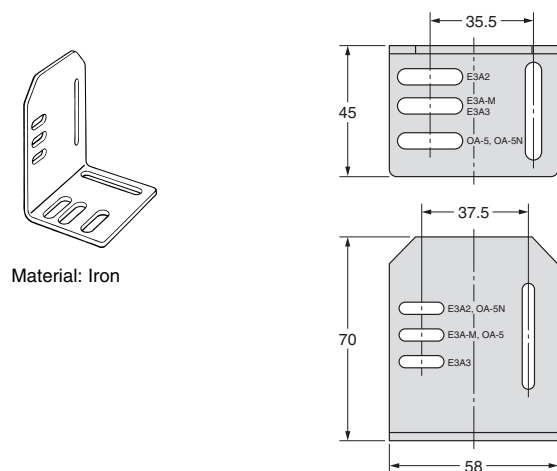
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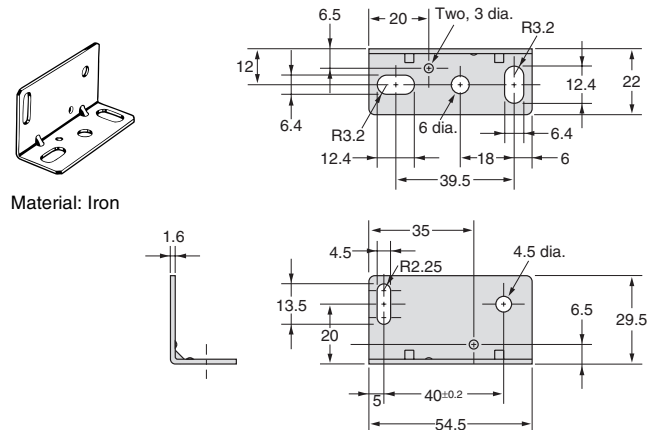
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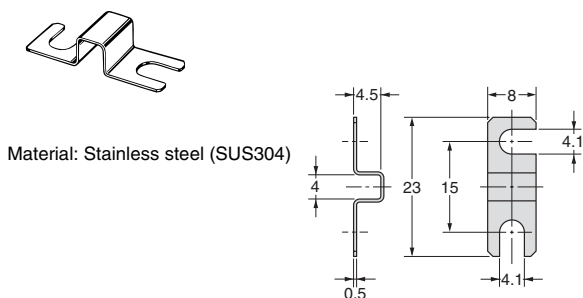
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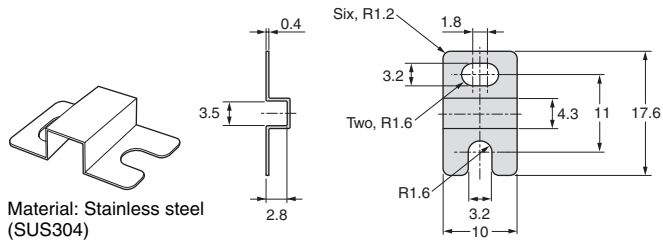
## E39-L53



## E39-L54V

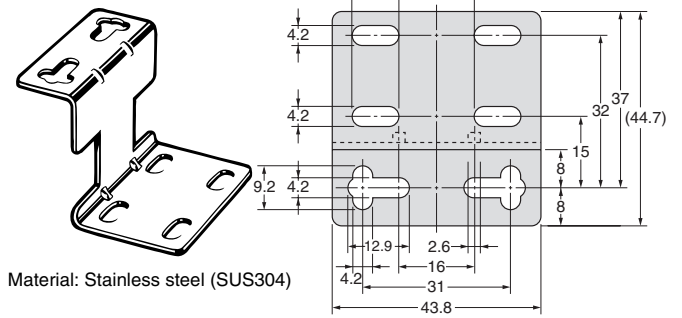


**E39-L83**

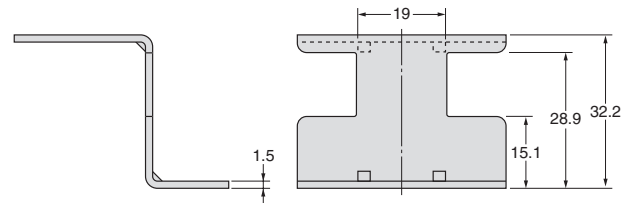


Material: Stainless steel  
(SUS304)

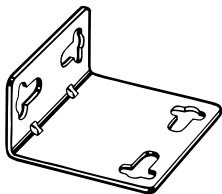
**E39-L85**



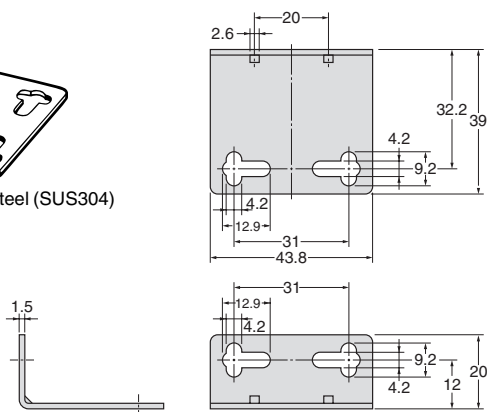
Material: Stainless steel (SUS304)



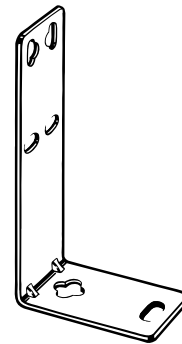
## E39-L86



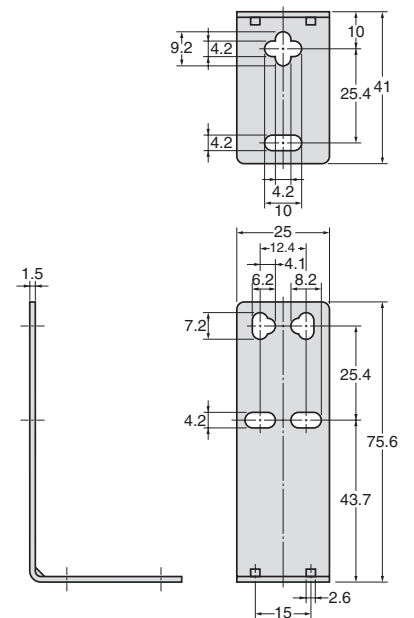
Material: Stainless steel (SUS304)



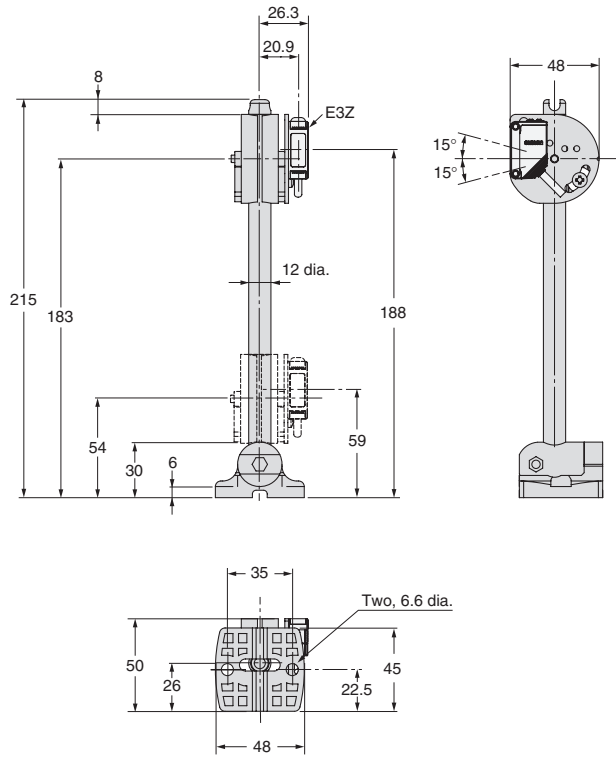
## E39-L87



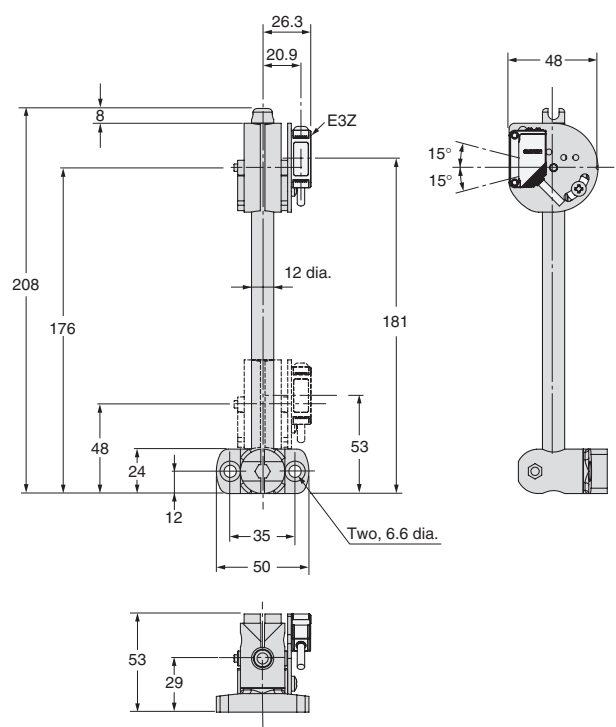
Material:  
Stainless steel (SUS304)



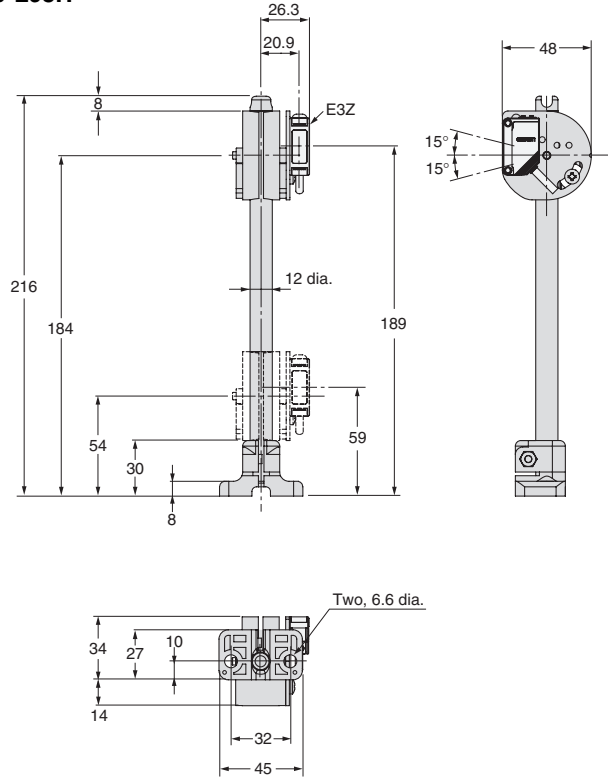
E39-L93FH



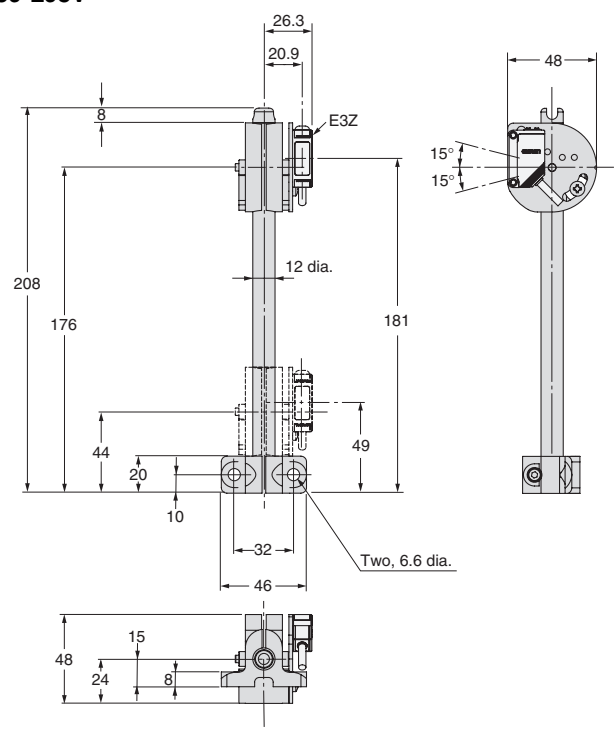
E39-L93FV



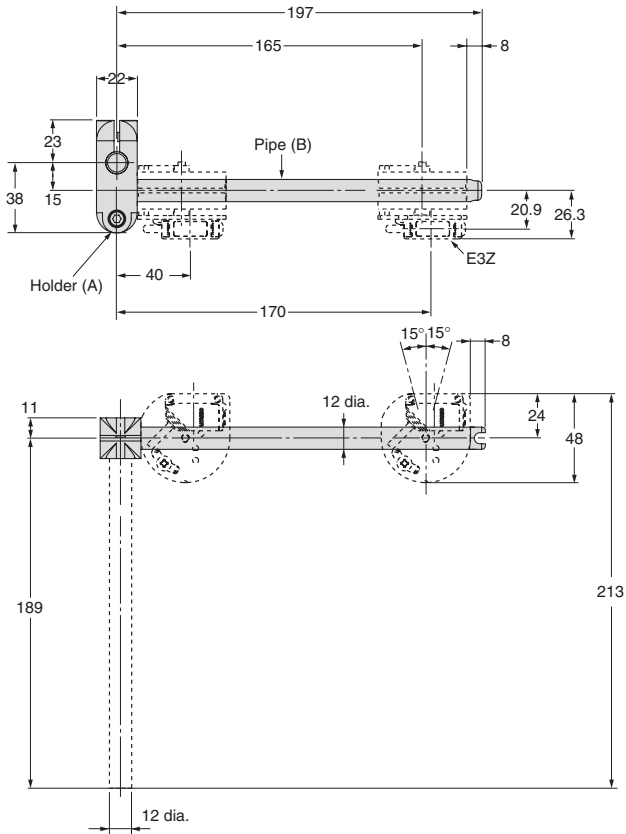
E39-L93H



E39-L93V

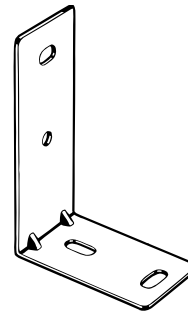


**E39-L93XY**

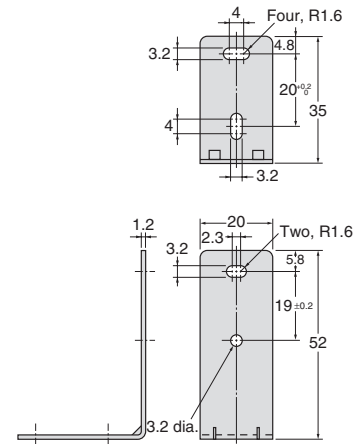


**Note:** The E39-L93XY consists of only the one joint holder (A) and pipe, and the two hexagonal bolts and nuts. It cannot be mounted to the Sensor alone.

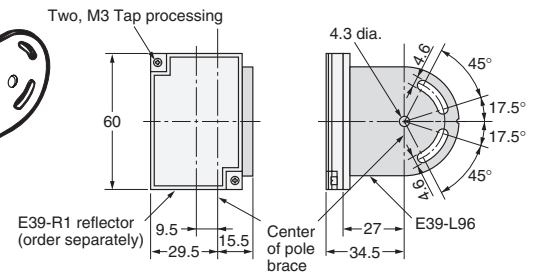
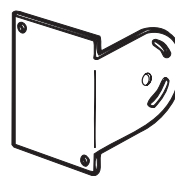
**E39-L94**



Material: Iron

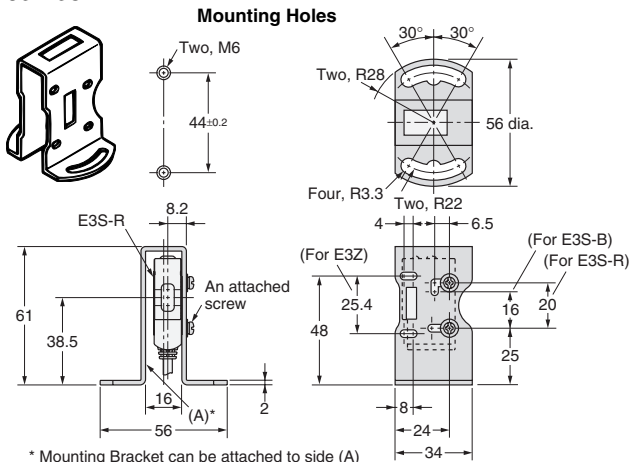


## E39-L96



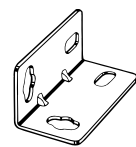
Material:  
Stainless steel  
(SUS304)  
2-mm-thick

**E39-L98**

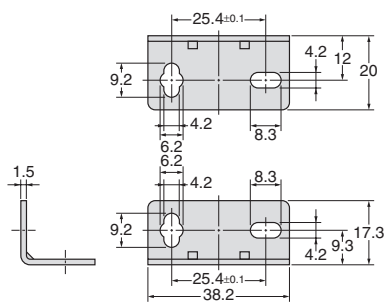


\* Mounting Bracket can be attached to side (A)  
Material: Stainless steel (SUS304)

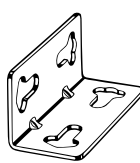
E39-L102



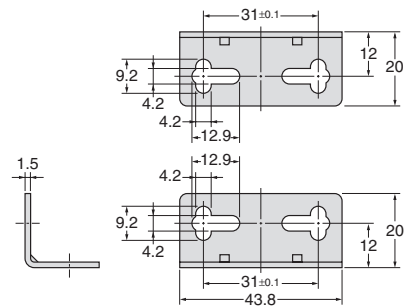
Material:  
Stainless steel (SUS304)



E39-L103



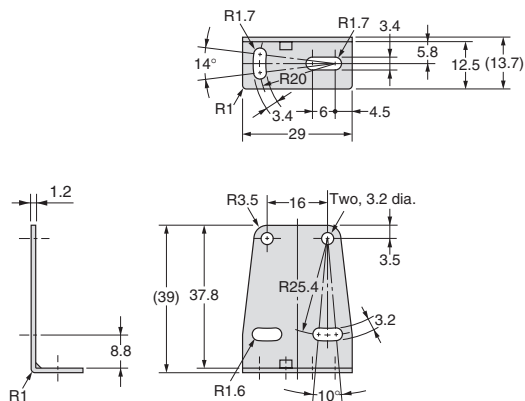
Material:  
Stainless steel (SUS304)



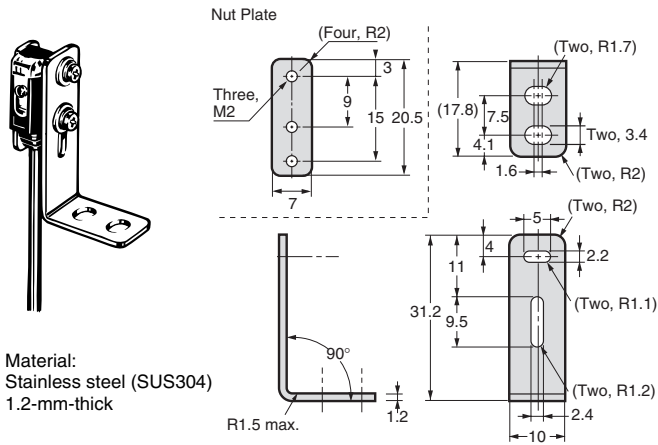
E39-L104



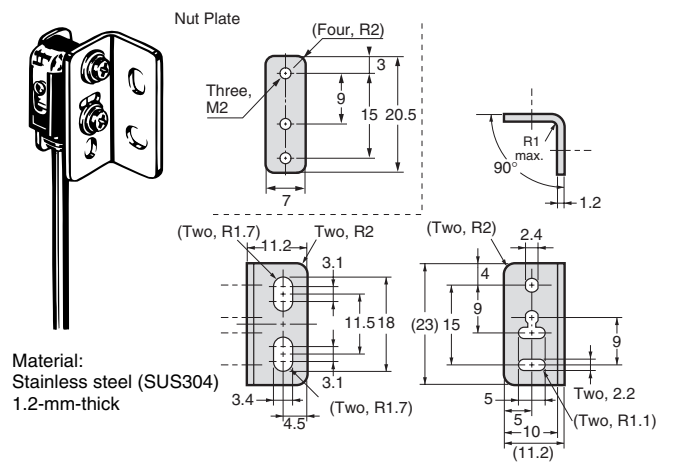
Material:  
Stainless steel  
(SUS304)



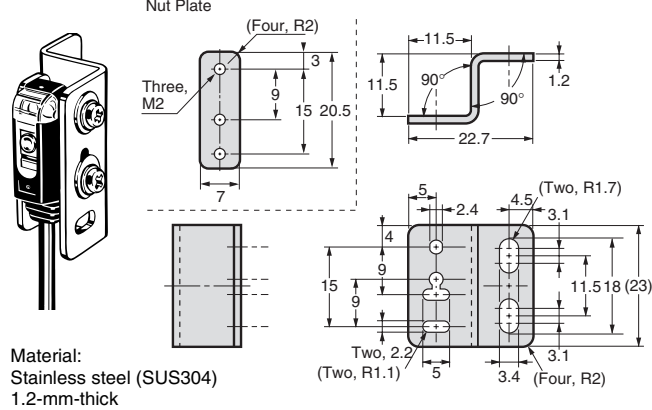
## E39-L116



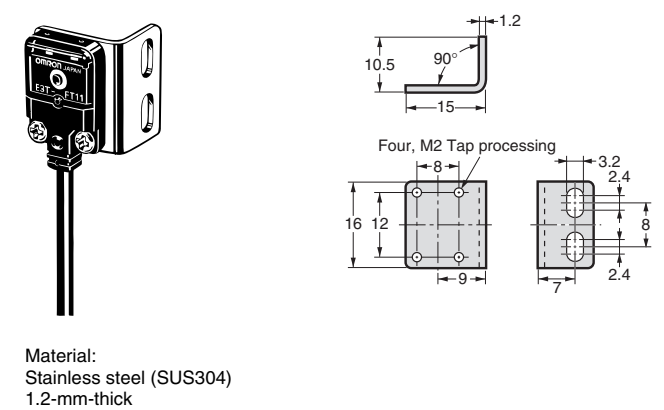
## E39-L117



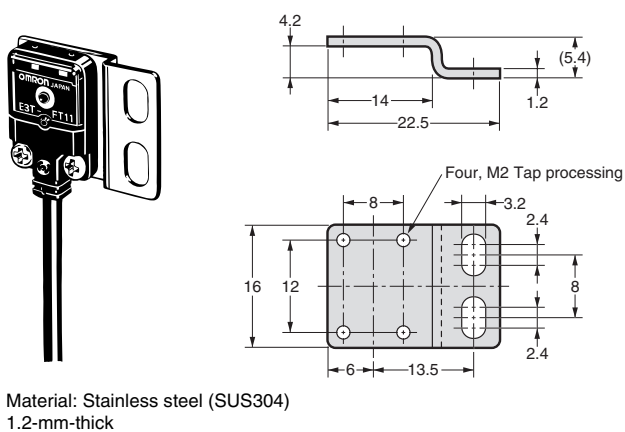
## E39-L118



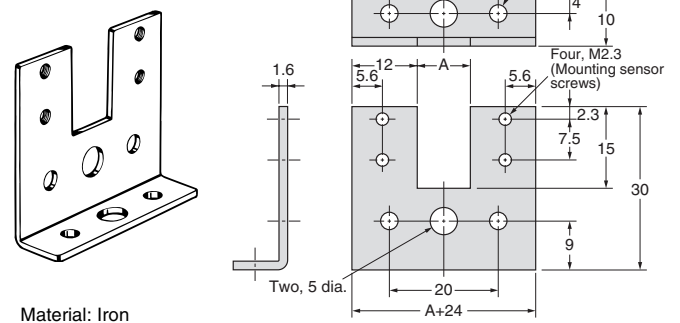
## E39-L119



## E39-L120

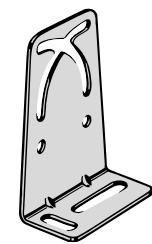


## E39-L127-T1 E39-L127-T2 E39-L127-T3

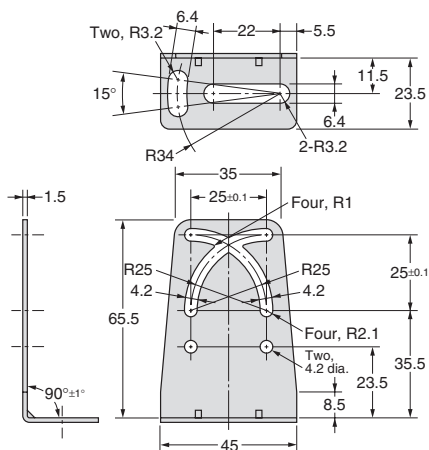


| Model       | Dimension A (mm) |
|-------------|------------------|
| E39-L127-T1 | 10               |
| E39-L127-T2 | 20               |
| E39-L127-T3 | 30               |

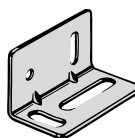
## E39-L131



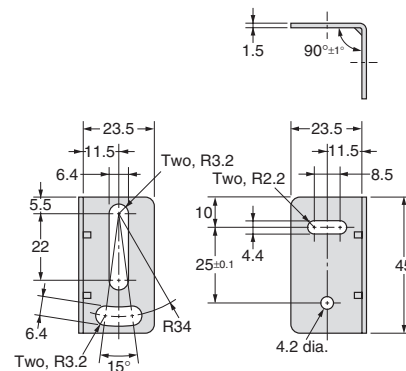
Material:  
Stainless steel (SUS304)



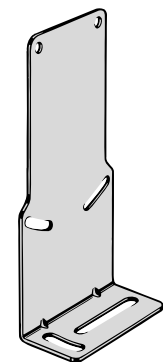
## E39-L132



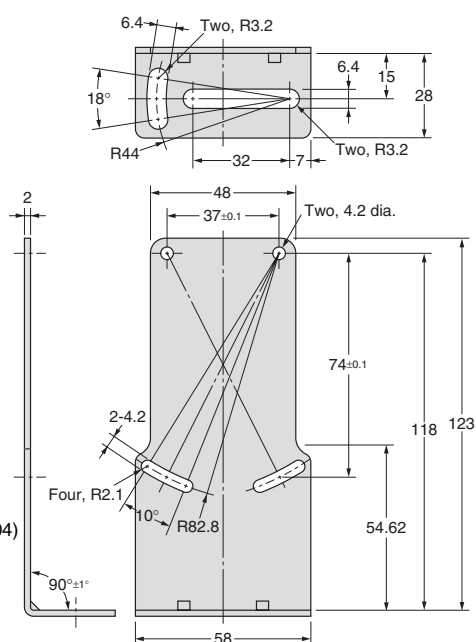
Material: Stainless steel (SUS304)



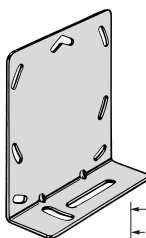
## E39-L135



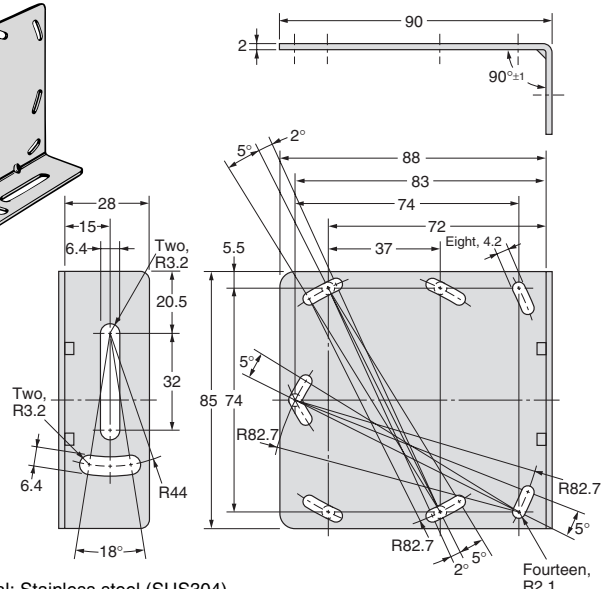
Material:  
Stainless steel (SUS304)



## E39-L136



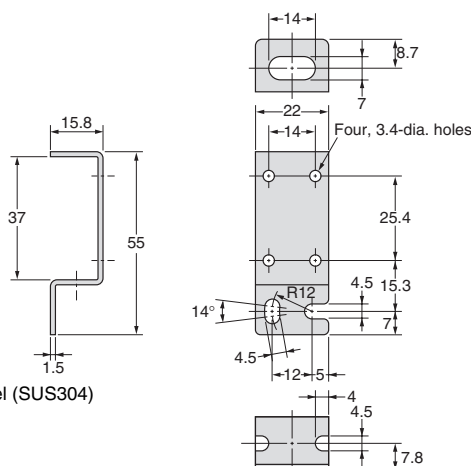
Material: Stainless steel (SUS304)



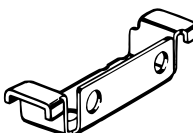
## E39-L142



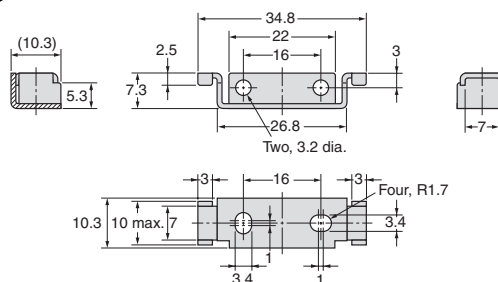
Material: Stainless steel (SUS304)



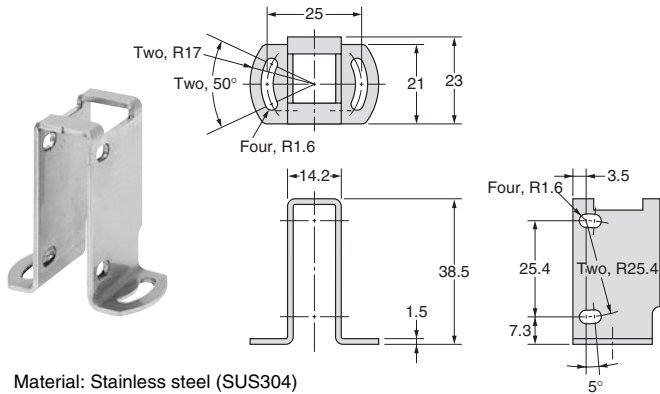
## E39-L143



Material: Stainless steel (SUS304)

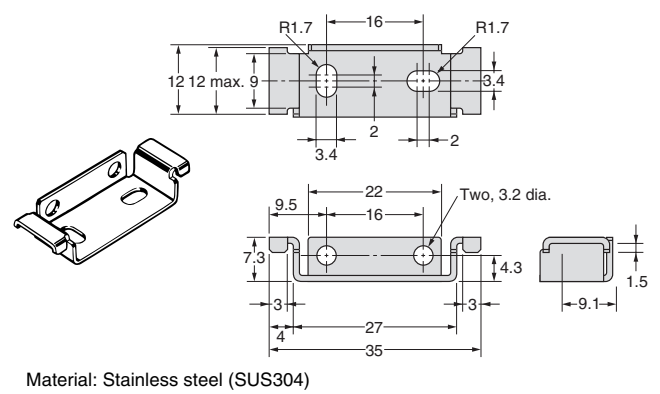


## E39-L144



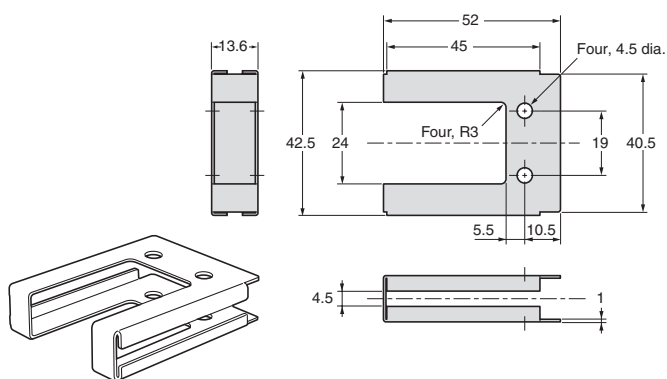
Material: Stainless steel (SUS304)

## E39-L148



Material: Stainless steel (SUS304)

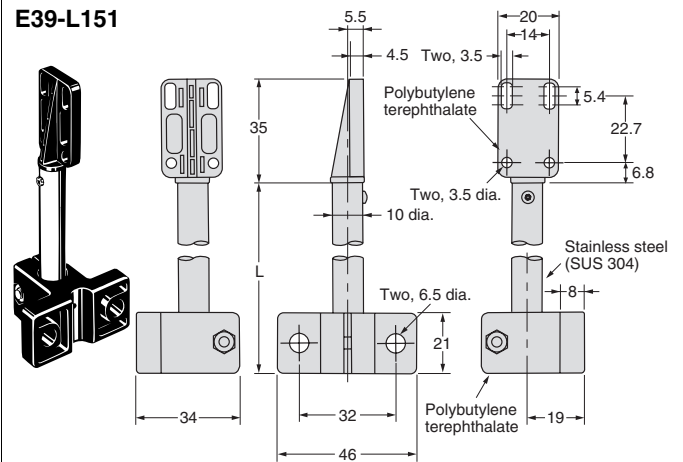
## E39-L149



Material: Iron

## E39-L150

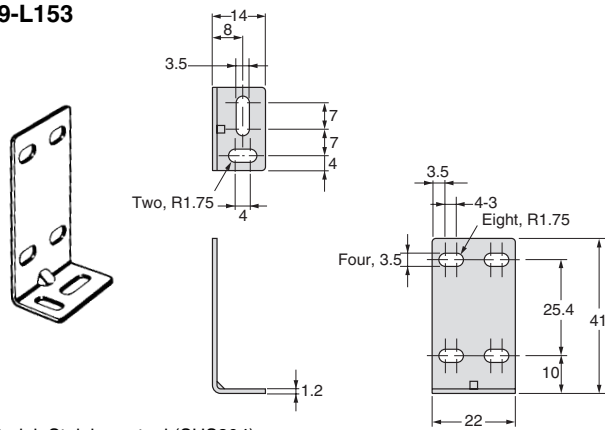
## E39-L151



Length (mm)

| Model    | L   |
|----------|-----|
| E39-L150 | 65  |
| E39-L151 | 165 |

## E39-L153

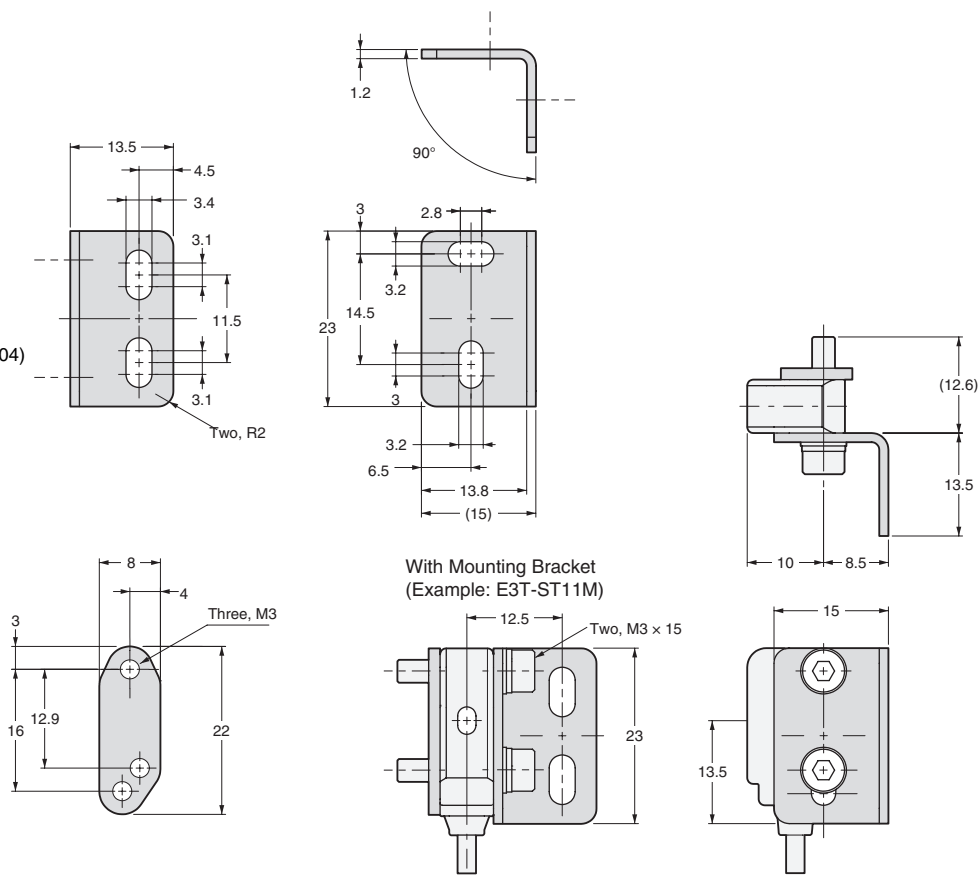


Material: Stainless steel (SUS304)

## E39-L166



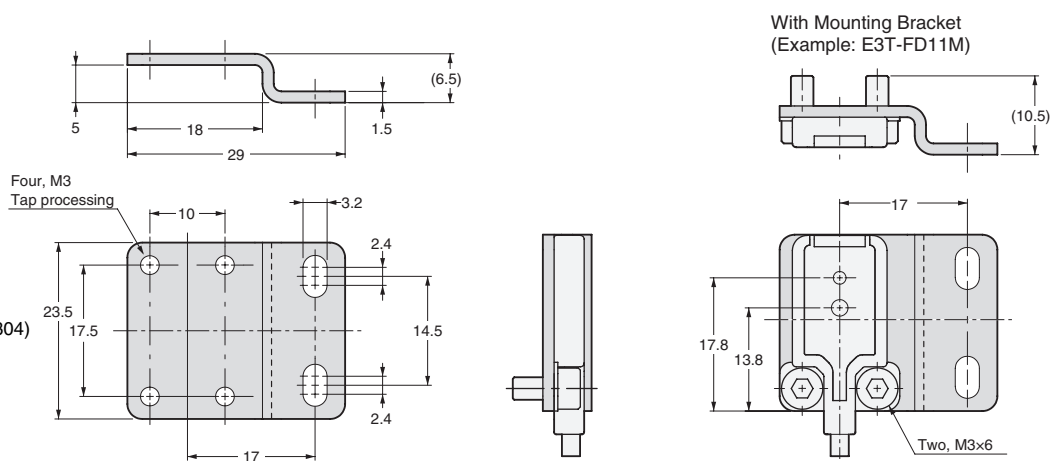
Material: Stainless steel (SUS304)  
1.2-mm-thick



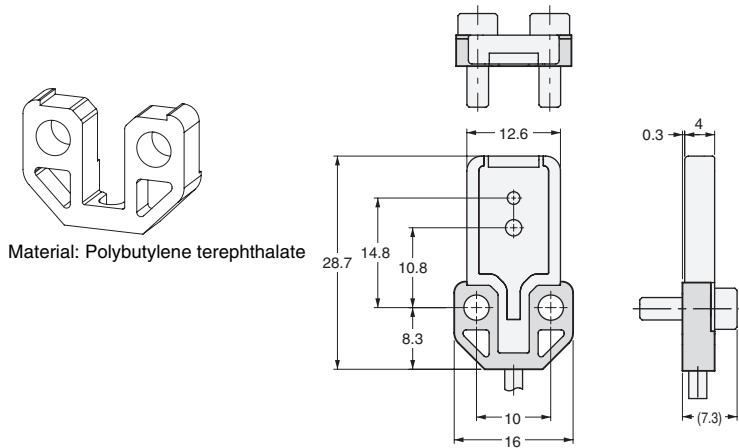
## E39-L167



Material: Stainless steel (SUS304)  
1.5-mm-thick

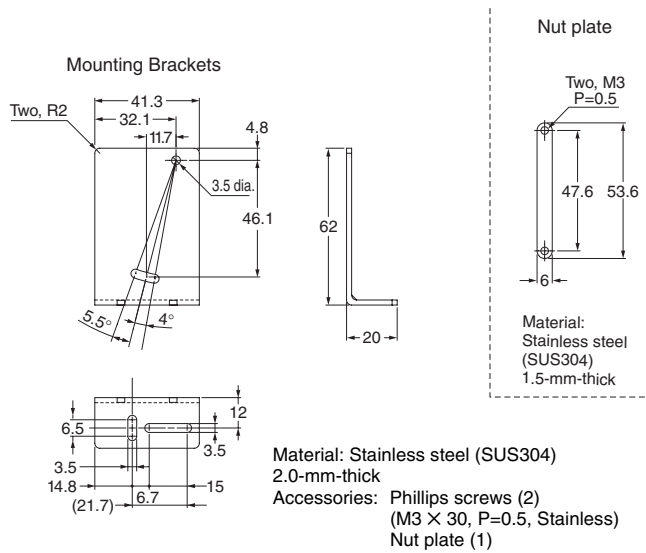


## E39-L168

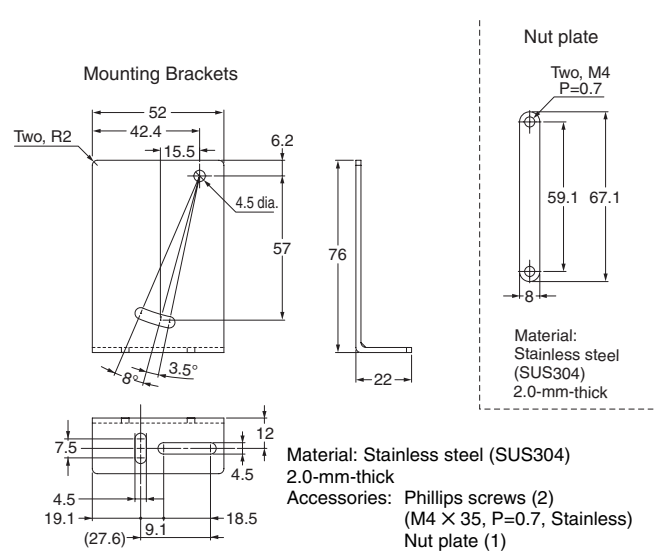


Note: Use this Spacer when mounting the Sensor from the back.

## E39-L180



## E39-L181

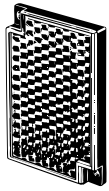


## Reflector dimensions

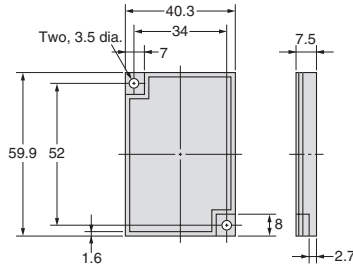
(Unit: mm)

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

### E39-R1 E39-R1S E39-R1K \*

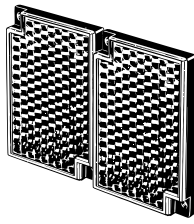


Material,  
reflective surface: acrylic  
Rear surface: ABS

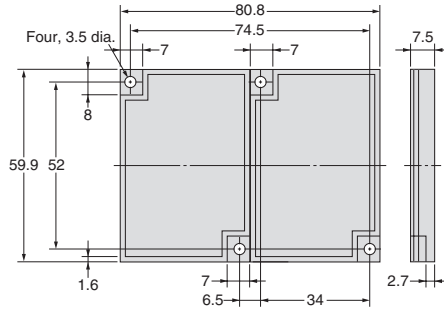


\* E39-R1K only  
Coating on reflective surface

### E39-R2



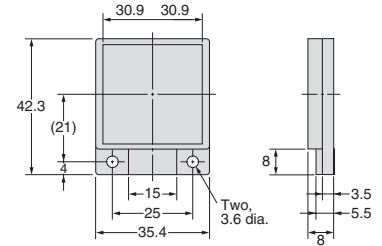
Material,  
reflective surface: acrylic  
Rear surface: ABS



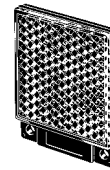
### E39-R9



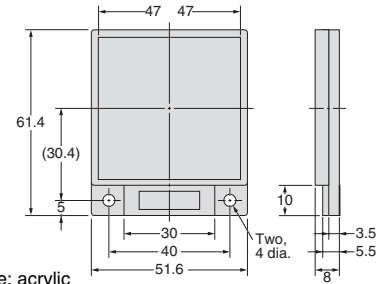
Material,  
reflective surface: acrylic  
Rear surface: ABS



### E39-R10



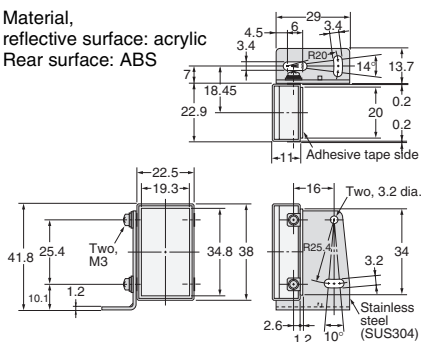
Material,  
reflective surface: acrylic  
Rear surface: ABS



### E39-R3



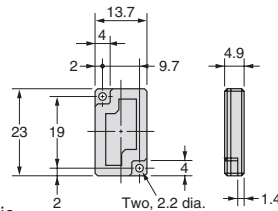
Material,  
reflective surface: acrylic  
Rear surface: ABS



### E39-R4



Material,  
reflective surface: acrylic  
Rear surface: ABS

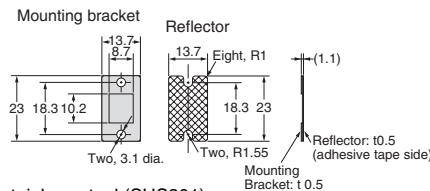


### E39-R37-CA

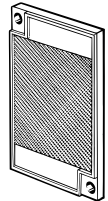


Material:  
Mounting plate: stainless steel (SUS301)  
Reflective surface: acrylic

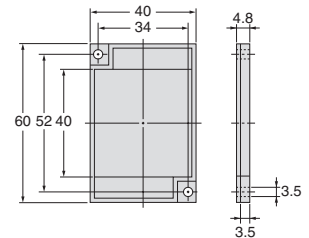
Note: The reflective plate and mounting plate (1) come as a set.  
Reflectors only for E3T-SR4□.



### E39-R6

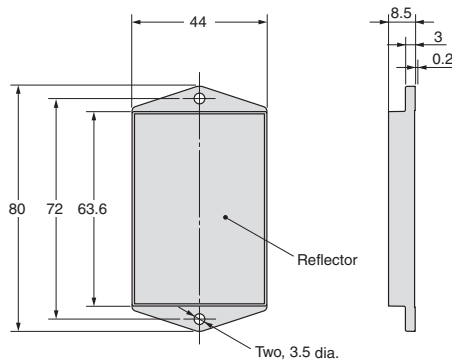


Material,  
reflective surface: acrylic  
Rear surface: ABS

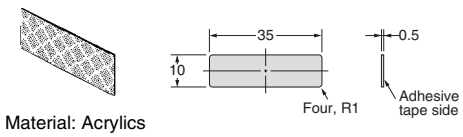


## Retroreflector for E3ZM-B

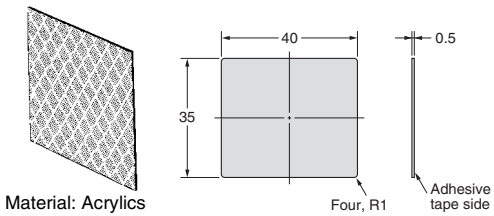
### E39-RP1



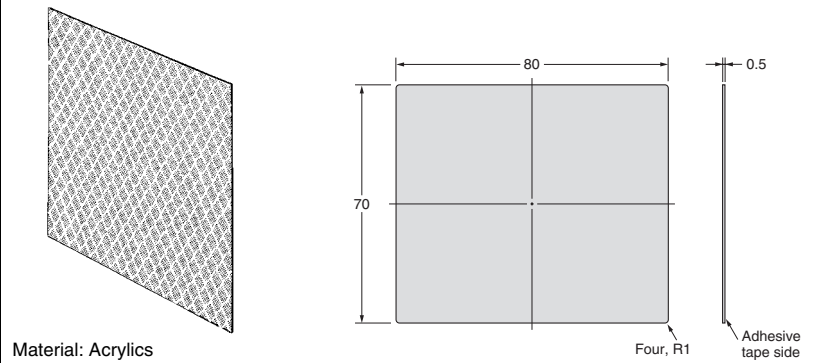
## E39-RS1 E39-RS1-CA \*1



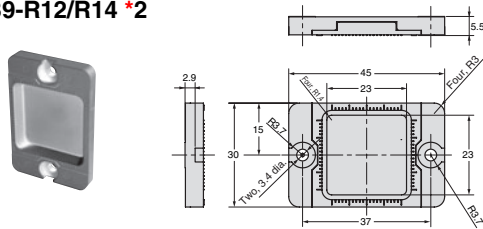
## E39-RS2 E39-RS2-CA \*1



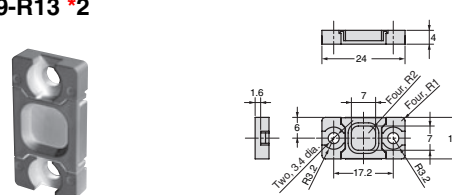
## E39-RS3 E39-RS3-CA \*1



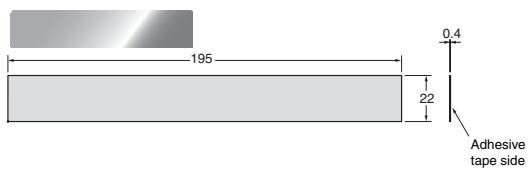
## E39-R12/R14 \*2



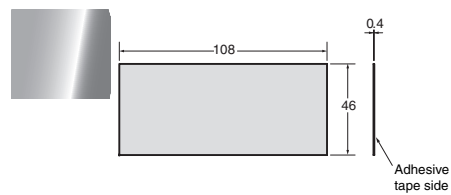
## E39-R13 \*2



## E39-RS4 \*2



## E39-RS5 \*2



\*1. Models ending in the suffix "-CA" are reflectors only for E3T-SR4□.

\*2. These Reflectors are for E3C-LDA-series Sensors. However, the E39-R12 can also be used with an E3Z-LR□ Retroreflective Laser Sensor.

## 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.

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### SUITABILITY FOR USE

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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.

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Электрон  
Связь**

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Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

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