

## Mounting Brackets

| Model           | Fitting materials           | Count | Accessories                                                                   |                          |       | Applicable sensor<br>(mounting pitch on<br>sensor side)       | Page<br>Dimensions |
|-----------------|-----------------------------|-------|-------------------------------------------------------------------------------|--------------------------|-------|---------------------------------------------------------------|--------------------|
|                 |                             |       | Description                                                                   | Material                 | Count |                                                               |                    |
| <b>E39-L2</b>   | Iron, zinc plating          | 1     | Hexagonal bolts M4 × 12<br>(with spring and plain washers)                    | Iron, zinc plating       | 2     | E3S-RS30E4□ (25.4)<br>E3S-R1E4□ (25.4)                        | 5                  |
| <b>E39-L4</b>   | Iron, zinc plating          | 1     | Slotted/Phillips screws M3 × 12<br>(with spring and plain washers)            | Iron, zinc plating       | 2     | E32-T16 (20)                                                  |                    |
| <b>E39-L5</b>   | Iron, zinc plating          | 1     | Hexagonal bolts M4 × 20<br>(with spring and plain washers)<br>Nuts M4         | Iron, zinc plating       | 2     | E3L-DS50E4                                                    |                    |
|                 |                             |       |                                                                               | Iron, zinc plating       | 2     |                                                               |                    |
| <b>E39-L6</b>   | Iron, zinc plating          | 1     | Hexagonal bolts M4 × 12<br>(with spring and plain washers)                    | Iron, zinc plating       | 2     | E3L-2RC4 (25.4)<br>E3S-RS30E4□ (25.4)<br>E3S-R1E4□ (25.4)     |                    |
| <b>E39-L31</b>  | Iron, zinc plating          | 1     | Slotted/Phillips screws, M3 × 12<br>(with spring washers)                     | Iron, zinc plating       | 2     | E3C-S50 (8)                                                   |                    |
| <b>E39-L40</b>  | Iron, zinc plating          | 1     | Phillips screws M4 × 25<br>(with spring and plain washers)<br>Nuts M4         | Iron, zinc plating       | 2     | E3JK                                                          | 6                  |
|                 |                             |       |                                                                               | Iron, zinc plating       | 2     |                                                               |                    |
| <b>E39-L41</b>  | Iron, zinc plating          | 2     | Phillips screws M3 × 14<br>(with spring washers)<br>Plain washer M3           | Iron, zinc plating       | 4     | E3C-1 (10)                                                    |                    |
|                 |                             |       |                                                                               | 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       | 4     | E3C-2 (20)<br>E3C-DS10 (19)<br>E3C-VS1G (19)<br>E3C-VS3R (19) |                    |
| <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)<br>Nuts M4 | Iron, zinc plating       | 2     | E3JM (40)                                                     |                    |
|                 |                             |       |                                                                               | Iron, nickel plating     | 2     |                                                               |                    |
| <b>E39-L53</b>  | Iron, zinc plating          | 1     | ---                                                                           | ---                      | ---   | E3JM (40)                                                     |                    |
| <b>E39-L54V</b> | Stainless steel<br>(SUS304) | 1     | ---                                                                           | ---                      | ---   | E32-T54V                                                      | 6                  |
| <b>E39-L69</b>  | Stainless steel<br>(SUS304) | 1     | Slotted/Phillips screws M3 × 12<br>(with spring and plain washers)            | Stainless steel (SUS304) | 2     | E3S-R1□ (20)<br>E3S-R3□ (20)                                  |                    |
| <b>E39-L70</b>  | Stainless steel<br>(SUS304) | 1     | Slotted/Phillips screws M3 × 12<br>(with spring and plain washers)            | Stainless steel (SUS304) | 2     | E3S-R6□ (20)<br>E3S-R8□ (20)                                  |                    |
| <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)<br>E3S-CR62/67 (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            |                                                                           |                    |
| E39-L93FH                                                | Stainless steel (SUS304) | 1     | Holder (upper)<br>Holder (lower)<br>Pipe                                 | Heat-resistant ABS resin<br>66 nylon<br>Stainless steel (SUS304)                             | 1<br>1<br>1      | E3Z (25.4)<br>E3S-R1□/R3□<br>/R6□/R8□ (20)<br>E39-R1/E39-R3               | 8                  |
| E39-L93FV                                                | Stainless steel (SUS304) | 1     | Bolts M4 × 12 with Hexagonal holes<br>Bolts M4 × 30 with hexagonal holes | Iron, nickel plating                                                                         | 2<br>1           |                                                                           |                    |
| E39-L93H                                                 | Stainless steel (SUS304) | 1     | Phillips screws M3 × 12 (with spring and plain washers)                  | Stainless steel (SUS304)                                                                     | 2                |                                                                           |                    |
| E39-L93V                                                 | Stainless steel (SUS304) | 1     | Spring washer M4<br>Plain washer M4<br>Nuts M4                           | Iron, nickel plating<br>Iron, nickel plating<br>Iron, nickel plating                         | 1<br>1<br>3      |                                                                           |                    |
| E39-L93XY                                                | ---                      | ---   | Holder<br>Pipe<br>Bolts M5 × 16 with hexagonal holes<br>Nuts M5          | 66 nylon<br>Stainless steel (SUS304)<br>Stainless steel (SUS304)<br>Stainless steel (SUS304) | 1<br>1<br>2<br>2 |                                                                           |                    |
| E39-L94                                                  | Iron, zinc plating       | 2     | Phillips screws M3 × 10<br>Nuts M3                                       | Iron, zinc plating<br>Iron, zinc plating                                                     | 4<br>4           | E32-T16P (19)                                                             | 9                  |
| E39-L96<br>* For installation of Sensor Adjuster E39-L93 | Stainless steel (SUS304) | 1     | Phillips screws M3 × 6 (with spring and plain washers)                   | Iron, nickel plating                                                                         | 2                | E39-R1                                                                    |                    |
| E39-L97                                                  | Stainless steel (SUS304) | 1     | Slotted/Phillips screws M3 × 12 (with spring and plain washers)          | Stainless steel (SUS304)                                                                     | 2                | E3S-R1□/R3□ (20)                                                          |                    |
| E39-L98                                                  | Stainless steel (SUS304) | 1     | Slotted/Phillips screws M3 × 12 (with spring and plain washers)          | Stainless steel (SUS304)                                                                     | 2                | E3Z pre-wired model (25.4)<br>E3S-R6□/R8□ (20)                            |                    |
| E39-L102                                                 | Stainless steel (SUS304) | 1     | Hexagonal bolts M4 × 12 (with spring and plain washers)                  | Iron, zinc plating                                                                           | 2                | E3S-C (horizontal type) (25.4)                                            |                    |
| E39-L103                                                 | Stainless steel (SUS304) | 1     | Hexagonal bolts M4 × 12 (with spring and plain washers)                  | Iron, zinc plating                                                                           | 2                | E3S-C (vertical type) (25.4)<br>E3S-CR62/67 (25.4)                        | 10                 |
| E39-L104                                                 | 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) |                    |
| E39-L109                                                 | Stainless steel (SUS430) | 1     | ---                                                                      | ---                                                                                          | ---              | E32-S15-□ (13.2)                                                          |                    |
| E39-L114                                                 | Stainless steel (SUS430) | 2     | Phillips screws M5 × 10                                                  | Iron, zinc plating                                                                           | 4                | E3MC (28)                                                                 |                    |
| E39-L115                                                 | Stainless steel (SUS304) | 1     | Phillips screws M5 × 8<br>Slotted/Phillips screws M3 × 8                 | Iron, zinc plating<br>Iron, nickel plating                                                   | 4<br>2           | E3MC                                                                      |                    |
| E39-L116                                                 | Stainless steel (SUS304) | 1     | ---                                                                      | ---                                                                                          | ---              | E3T-S (9/15)                                                              | 11                 |
| E39-L117                                                 | Stainless steel (SUS304) | 1     | ---                                                                      | ---                                                                                          | ---              | E3T-S (9/15)                                                              |                    |
| E39-L118                                                 | Stainless steel (SUS304) | 1     | ---                                                                      | ---                                                                                          | ---              | E3T-S (9/15)                                                              |                    |
| E39-L119                                                 | Stainless steel (SUS304) | 1     | ---                                                                      | ---                                                                                          | ---              | E3T-F (8)                                                                 |                    |
| E39-L120                                                 | Stainless steel (SUS304) | 1     | ---                                                                      | ---                                                                                          | ---              | E3T-F (8)                                                                 |                    |
| E39-L127-T1                                              | Iron, zinc plating       | 1     | Phillips screws M2.3 × 8<br>Spring washer M2.3                           | Iron, zinc plating<br>Iron, zinc plating                                                     | 4<br>4           | E3C-S10 (7.5)                                                             |                    |
| E39-L127-T2                                              | Iron, zinc plating       | 1     | Phillips screws M2.3 × 8<br>Spring washer M2.3                           | Iron, zinc plating<br>Iron, zinc plating                                                     | 4<br>4           |                                                                           |                    |
| E39-L127-T3                                              | Iron, zinc plating       | 1     | Phillips screws M2.3 × 8<br>Spring washer M2.3                           | Iron, zinc plating<br>Iron, zinc plating                                                     | 4<br>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                                 | Stainless steel (SUS304)                             | 2      | E3G-R1□ (25)<br>E3G-L7□ (25)                         | 12                 |
|          |                          |       | Spring washer M4                                                | Stainless steel (SUS304)                             | 2      |                                                      |                    |
|          |                          |       | Plain washer M4                                                 | Stainless steel (SUS304)                             | 2      |                                                      |                    |
|          |                          |       | Nuts M4                                                         | Stainless steel (SUS304)                             | 2      |                                                      |                    |
| E39-L132 | Stainless steel (SUS304) | 1     | Slotted/Phillips screws M4 × 25                                 | Stainless steel (SUS304)                             | 2      | E3G-R1□ (25)<br>E3G-L7□ (25)                         |                    |
|          |                          |       | Spring washer M4                                                | Stainless steel (SUS304)                             | 2      |                                                      |                    |
|          |                          |       | Plain washer M4                                                 | Stainless steel (SUS304)                             | 2      |                                                      |                    |
|          |                          |       | Nuts M4                                                         | Stainless steel (SUS304)                             | 2      |                                                      |                    |
| E39-L135 | Stainless steel (SUS304) | 1     | Slotted/Phillips screws M4 × 35                                 | Stainless steel (SUS304)                             | 2      | E3G-MR19 (T)<br>E3G-ML79 (T)                         |                    |
|          |                          |       | Spring washer M4                                                | Stainless steel (SUS304)                             | 2      |                                                      |                    |
|          |                          |       | Plain washer M4                                                 | Stainless steel (SUS304)                             | 2      |                                                      |                    |
|          |                          |       | Nuts M4                                                         | Stainless steel (SUS304)                             | 2      |                                                      |                    |
| E39-L136 | Stainless steel (SUS304) | 1     | Slotted/Phillips screws M4 × 35                                 | Stainless steel (SUS304)                             | 2      | E3G-MR19 (T)<br>E3G-ML79 (T)                         |                    |
|          |                          |       | Spring washer M4                                                | Stainless steel (SUS304)                             | 2      |                                                      |                    |
|          |                          |       | Plain washer M4                                                 | Stainless steel (SUS304)                             | 2      |                                                      |                    |
|          |                          |       | Nuts M4                                                         | Stainless steel (SUS304)                             | 2      |                                                      |                    |
| 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         |                    |
| 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                                                  | PBT (polybutylene terephthalate)                     | 1      | E3Z (25.4)<br>E3S-R6□/R8□ (20)<br>E39-R3             | 13                 |
|          |                          |       | Shaft (brace)                                                   | Stainless steel (SUS304)                             | 1      |                                                      |                    |
|          |                          |       | Bolt with hexagonal hole                                        | Stainless steel (SUSXM7)                             | 1      |                                                      |                    |
|          |                          |       | Nut                                                             | Stainless steel (SUS304)                             | 1      |                                                      |                    |
|          |                          |       | Phillips screw                                                  | Stainless steel (SUSXM7)                             | 1      |                                                      |                    |
|          |                          |       | Slotted/Phillips screws                                         | Stainless steel (SUS304)                             | 2      |                                                      |                    |
| E39-L151 | Stainless steel (SUS304) | 1     | Holder/bracket                                                  | PBT (polybutylene terephthalate)                     | 1      | E3Z (25.4)<br>E3S-R6□/R8□ (20)<br>E39-R3             |                    |
|          |                          |       | Shaft (brace)                                                   | Stainless steel (SUS304)                             | 1      |                                                      |                    |
|          |                          |       | Bolt with hexagonal hole                                        | Stainless steel (SUSXM7)                             | 1      |                                                      |                    |
|          |                          |       | Nut                                                             | Stainless steel (SUS304)                             | 1      |                                                      |                    |
|          |                          |       | Phillips screw                                                  | Stainless steel (SUSXM7)                             | 1      |                                                      |                    |
|          |                          |       | Slotted/Phillips screws                                         | Stainless steel (SUS304)                             | 2      |                                                      |                    |
| 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)                           |                    |
| F39-L1   | Iron, zinc plating       | 4     | Phillips screws M4 × 20                                         | Brass, nickel-plated                                 | 8      | F3W-B                                                |                    |
|          |                          |       | Nuts M4                                                         | Brass, nickel-plated                                 | 8      |                                                      |                    |
| F39-L2   | Iron, zinc plating       | 4     | Phillips screws M4 × 25                                         | Brass, nickel-plated                                 | 8      | F3W-B                                                |                    |
|          |                          |       | Phillips screws M4 × 20                                         | Brass, nickel-plated                                 | 8      |                                                      |                    |
|          |                          |       | Nuts M4                                                         | Brass, nickel-plated                                 | 8      |                                                      |                    |
|          |                          |       | Mounting Spacer                                                 | Heat-resistant ABS resin                             | 4      |                                                      |                    |
| F39-L3   | Iron, zinc plating       | 4     | ---                                                             | ---                                                  | ---    | F3W-A                                                |                    |
| F39-L4   | Iron, zinc plating       | 4     | ---                                                             | ---                                                  | ---    | F3W-C                                                |                    |
| F39-L5   | Iron, zinc plating       | 4     | ---                                                             | ---                                                  | ---    | F3W-C                                                |                    |
| F39-L9   | Stainless steel (SUS304) | 1     | Slotted/Phillips screws M3 × 25<br>Plain washer M3              | Iron, zinc plating<br>Iron, zinc plating             | 2<br>2 | F3UV-A                                               |                    |
| F39-L10  | Iron                     | 2     | Phillips screws M4 × 15                                         | Iron                                                 | 4      | F3W-D                                                |                    |
|          |                          |       | Nuts M4                                                         | Iron                                                 | 4      |                                                      |                    |
| F39-L11  | Iron                     | 2     | Phillips screws M4 × 15<br>Nuts M4                              | Iron<br>Iron                                         | 4<br>4 |                                                      |                    |
| F39-L12  | Iron                     | 2     | Phillips screws M4 × 15<br>Nuts M4                              | Iron<br>Iron                                         | 4<br>4 | F3W-D<br>Protective fittings                         |                    |

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

## Contact Mounting Plates

| Model   | Material                         | Count | Applicable type | Page       |
|---------|----------------------------------|-------|-----------------|------------|
|         |                                  |       |                 | Dimensions |
| E39-L60 | PBT (polybutylene terephthalate) | 1     | E3S-R□6         | 15         |

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)<br>E3JK-5□□ |
| E39-S60  | Width 0.5, 1 × 15 mm       | Seal type              | E32-T16                   |
| 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            |                        |                           |

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.

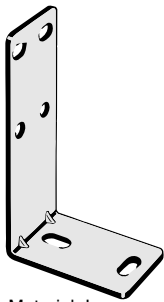
\*2. 40° or higher for E3G-R.

| 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.    |                                          |        | 2° to 20° min.                                     |            | 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 |            | ---                   |                       |                       |

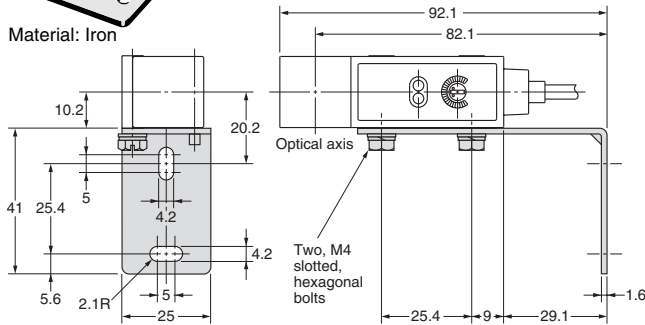
| Item                                | Name  | Laser Reflectors            |         |                                             |         |         |
|-------------------------------------|-------|-----------------------------|---------|---------------------------------------------|---------|---------|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

## Mounting Bracket Dimensions

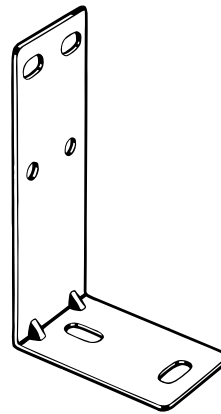
### E39-L2



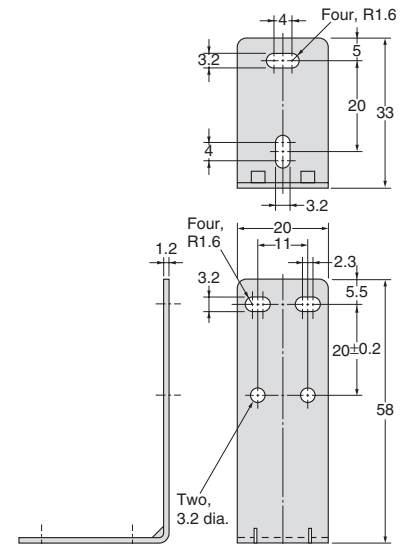
Material: Iron



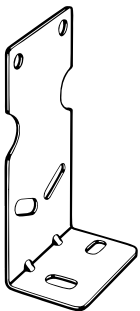
### E39-L4



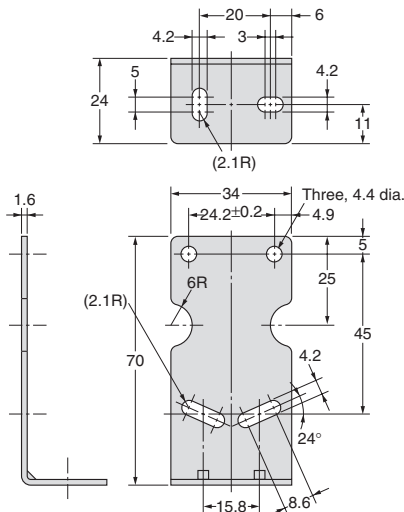
Material: Iron



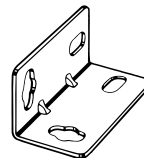
### E39-L5



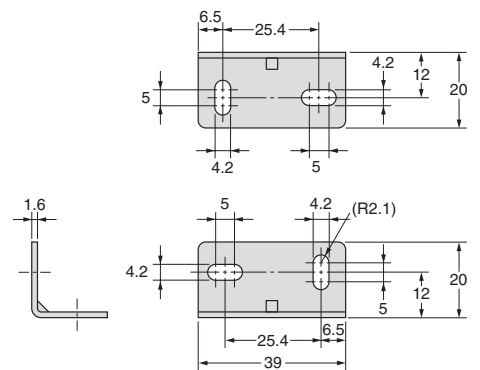
Material: Iron



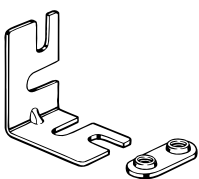
### E39-L6



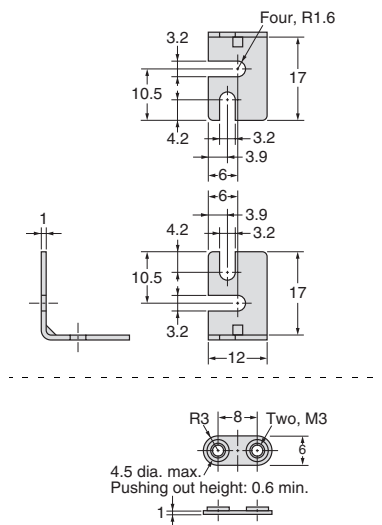
Material: Iron



### E39-L31



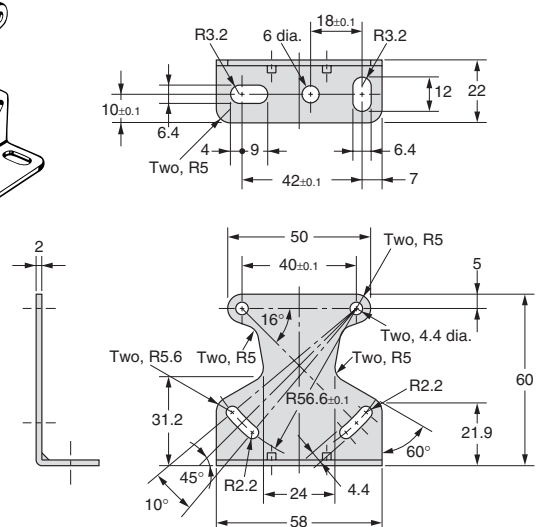
Material: Iron



### E39-L40

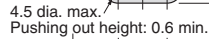
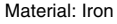


Material: Iron

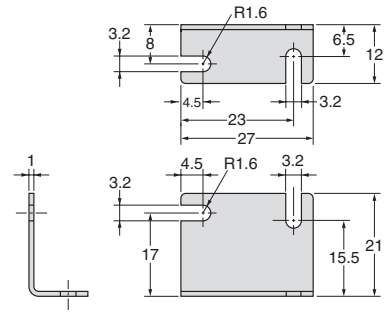
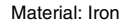


**E39-L/F39-L/E39-S/E39-R**

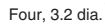
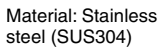
**E39-L41**



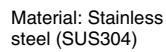
**E39-L42**



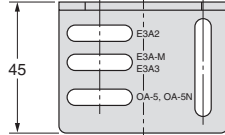
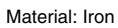
**E39-L43**



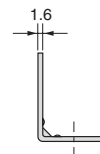
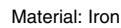
**E39-L44**



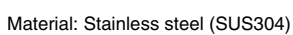
**E39-L51**



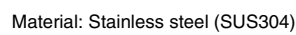
**E39-L53**



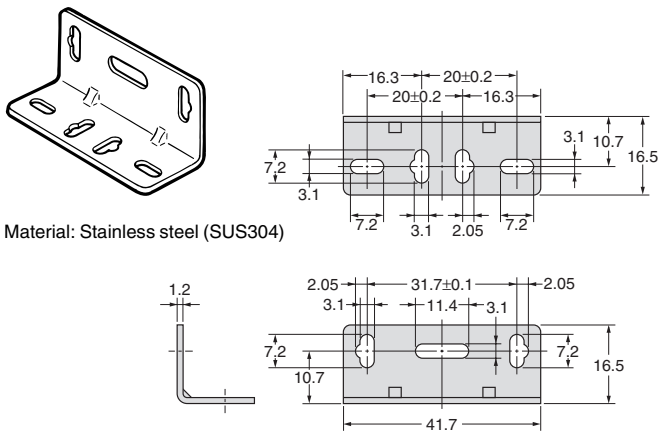
**E39-L54V**



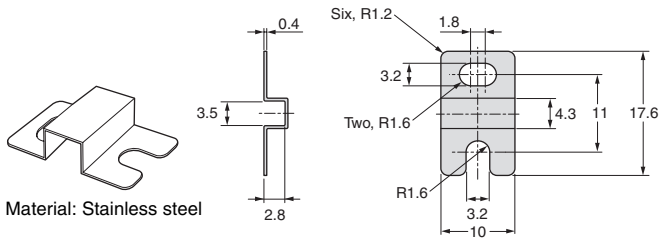
## E39-L69



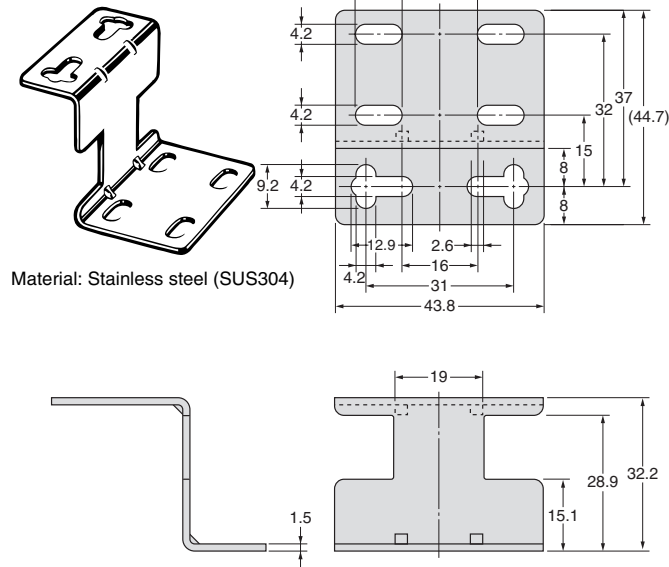
E39-L70



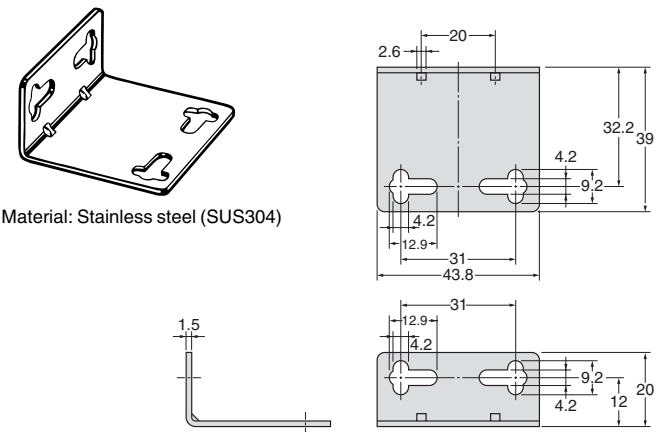
E39-L83



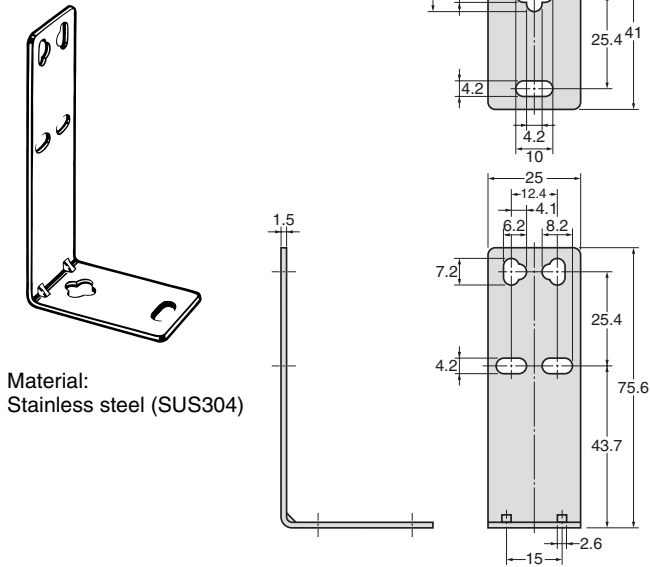
E39-L85



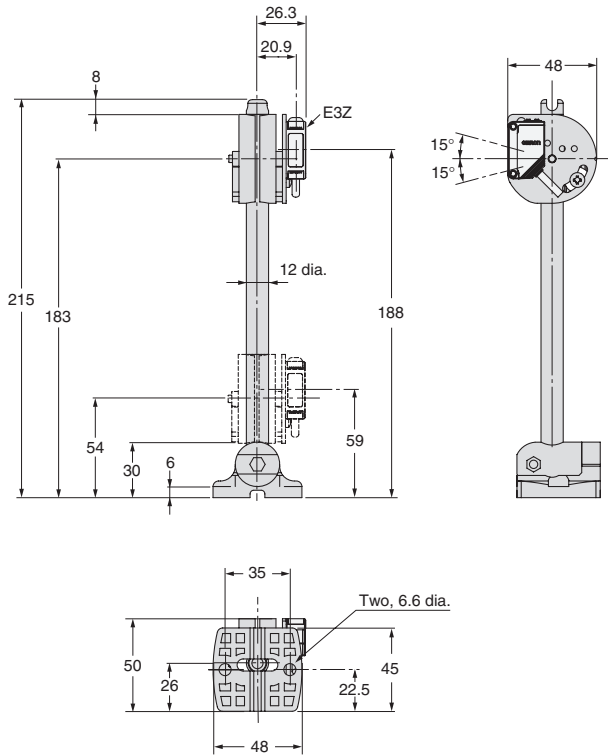
E39-L86



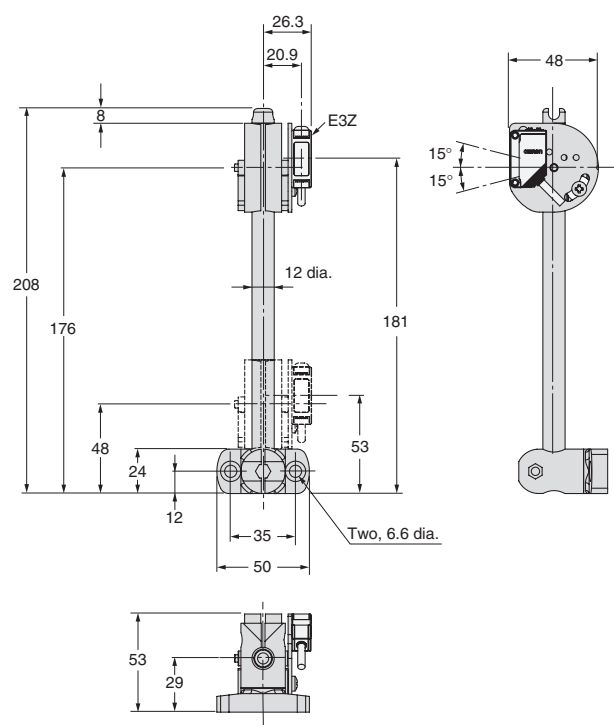
E39-L87



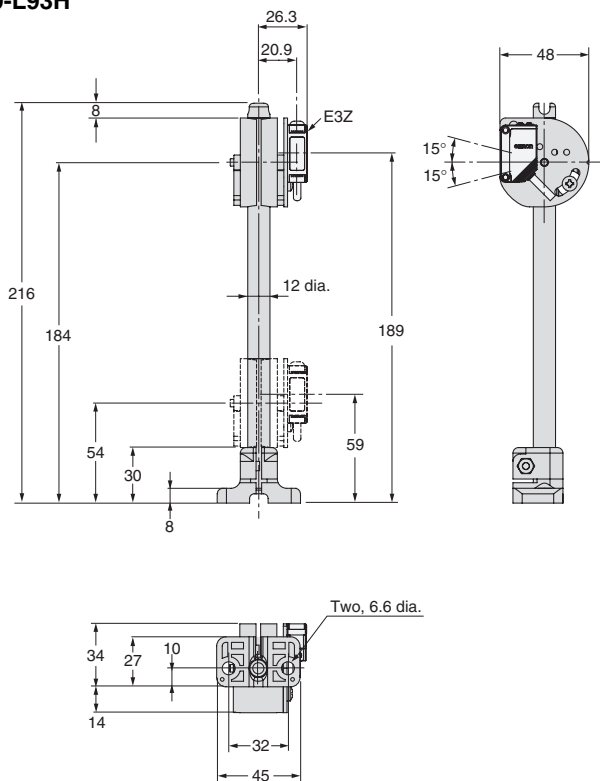
## E39-L93FH



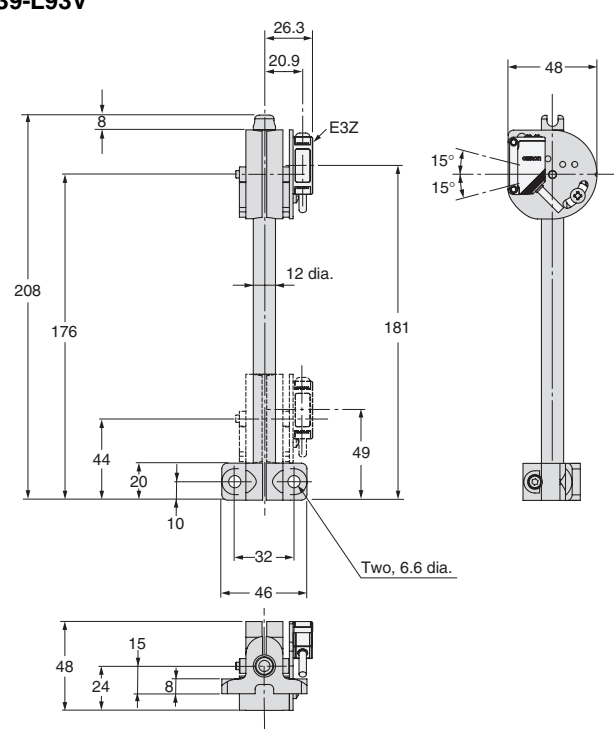
## E39-L93FV



## E39-L93H

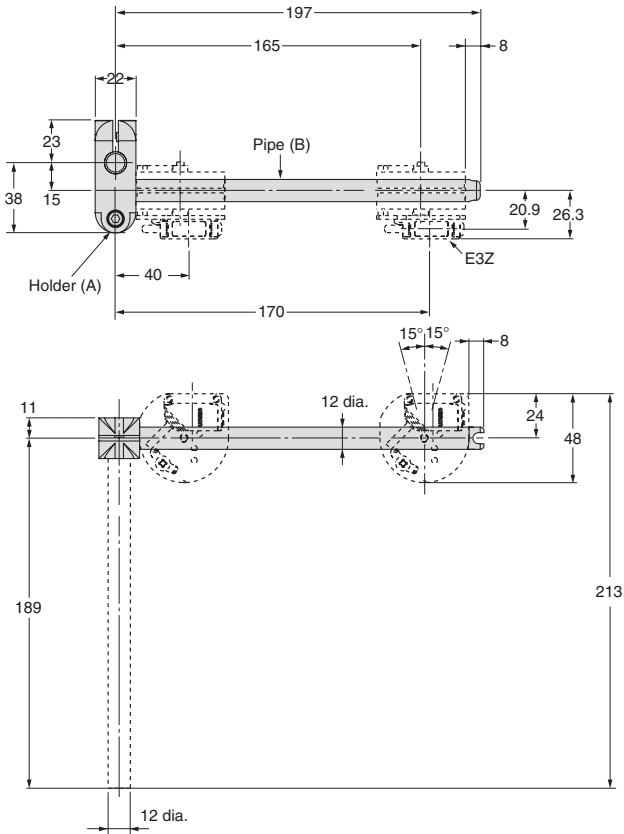


## E39-L93V



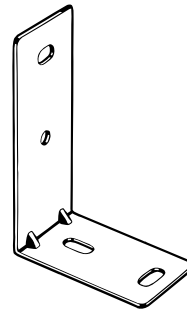


## E39-L93XY

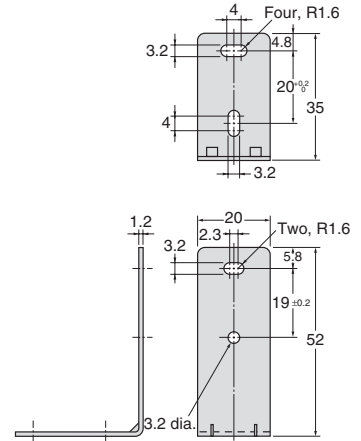


Note: The E39-L93XY consists of only the one joint holder (A) and pipe, and the two hexagonal bolts and nuts. It cannot be mounted to the Sensor alone.

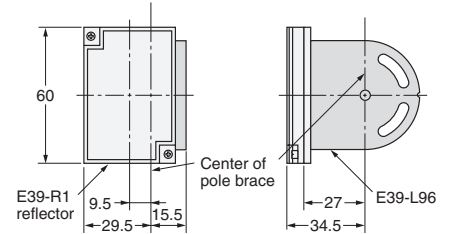
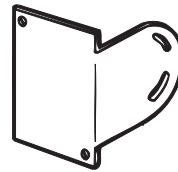
## E39-L94



Material: Iron

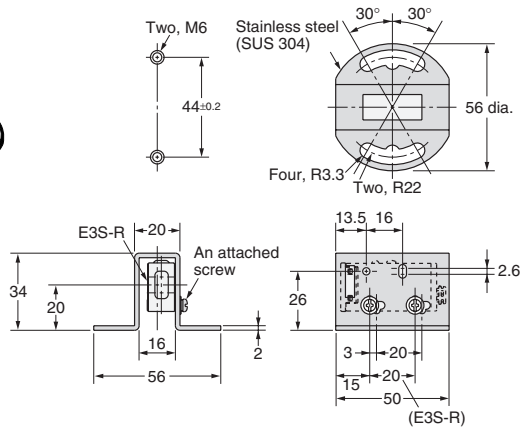
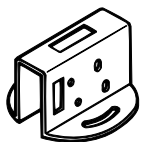


## E39-L96



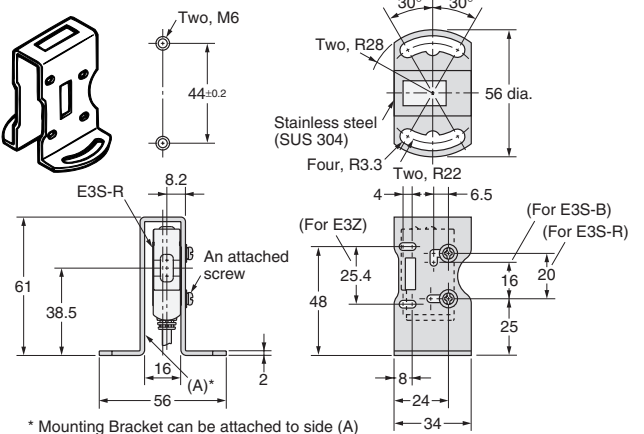
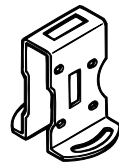
## E39-L97

### Mounting Holes



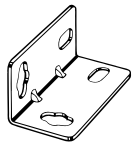
## E39-L98

### Mounting Holes

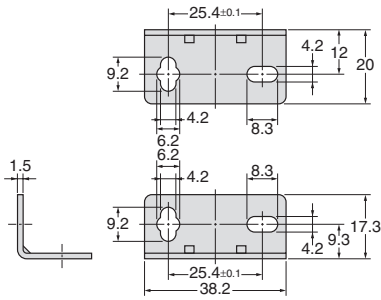


\* Mounting Bracket can be attached to side (A)

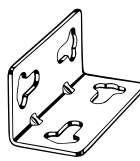
## E39-L102



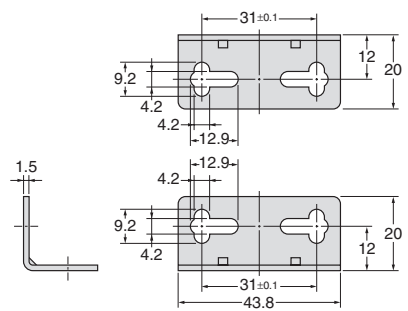
Material:  
Stainless steel (SUS304)



## E39-L103



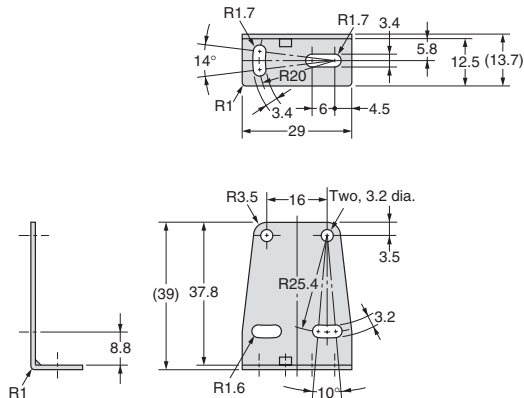
Material:  
Stainless steel (SUS304)



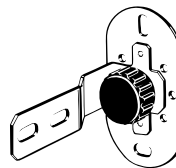
## E39-L104



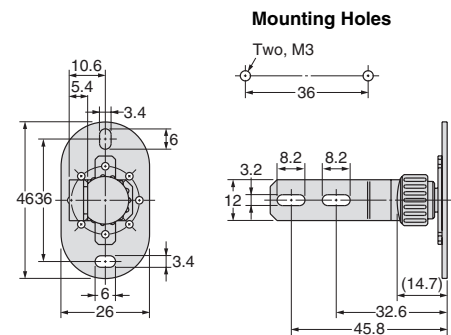
Material:  
Stainless steel  
(SUS304)



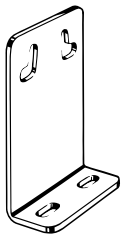
## E39-L109



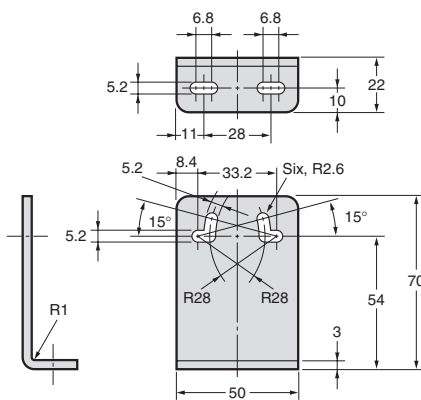
Material:  
Stainless steel  
(SUS430)



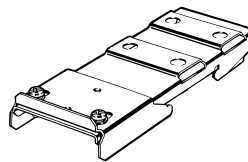
## E39-L114



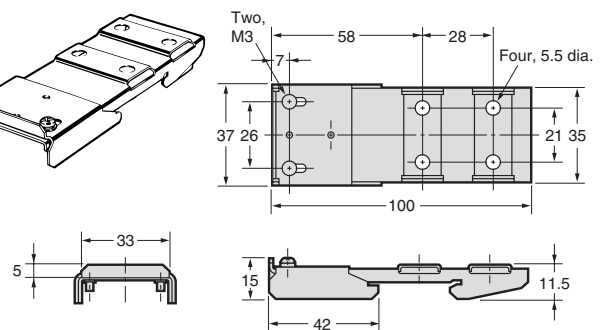
Material:  
Stainless steel (SUS430)



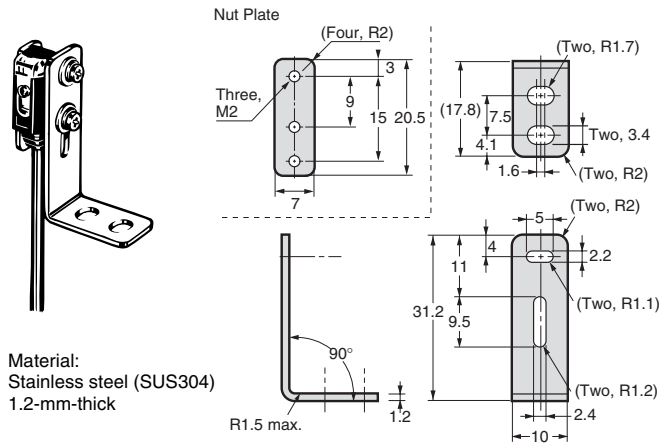
## E39-L115



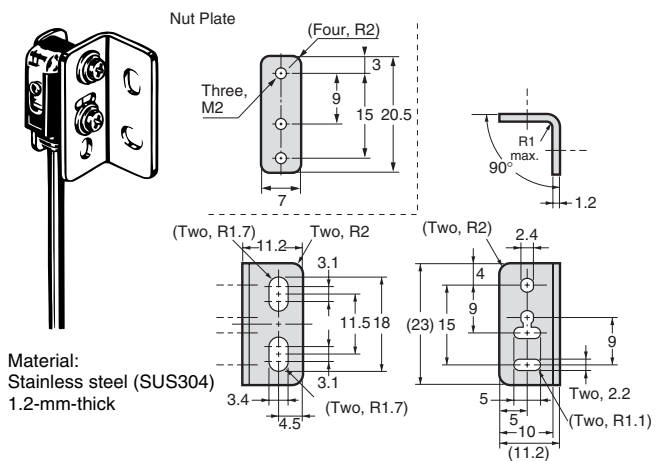
Material: Stainless steel (SUS304)



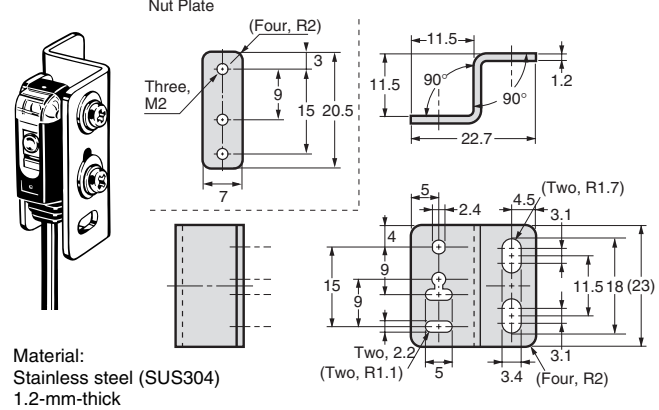
E39-L116



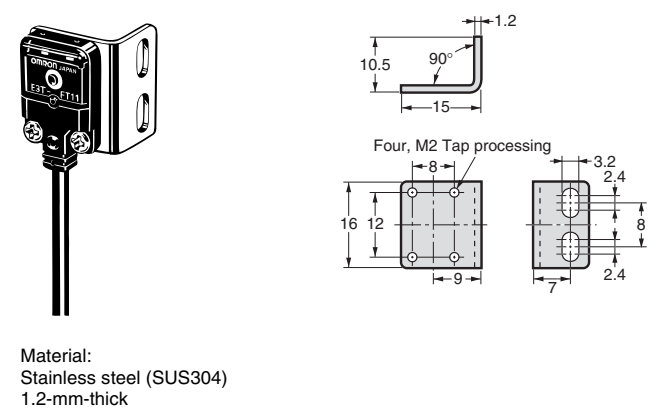
E39-L117



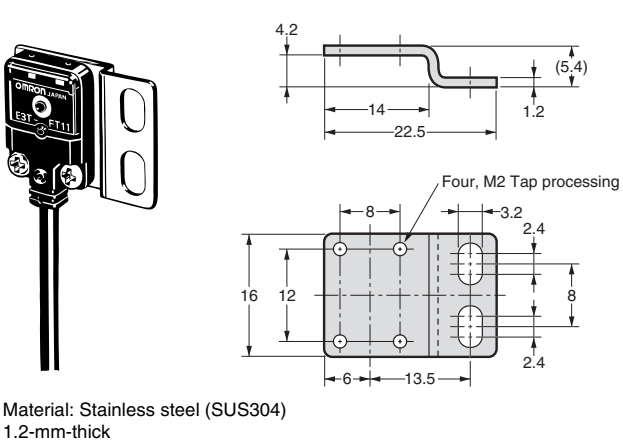
E39-L118



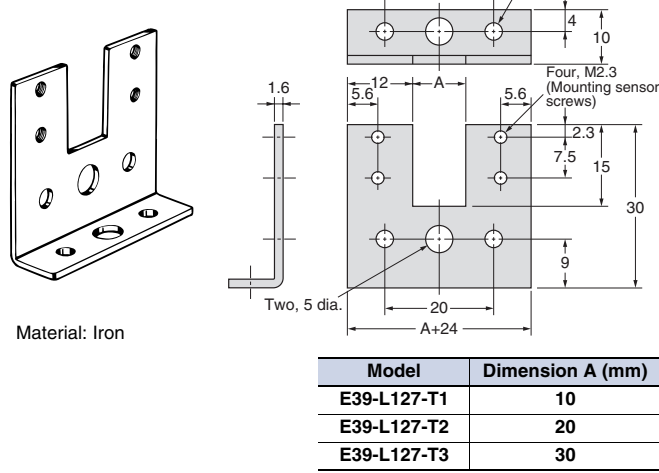
E39-L119



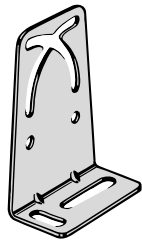
E39-L120



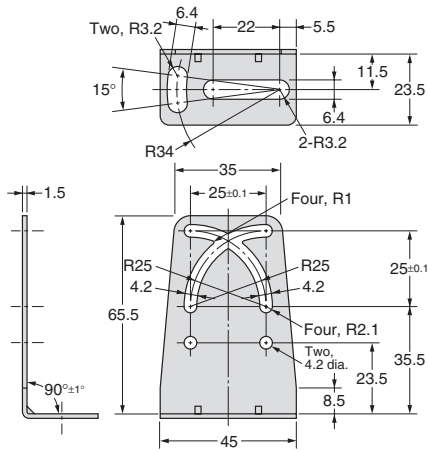
E39-L127-T1  
E39-L127-T2  
E39-L127-T3



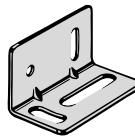
## E39-L131



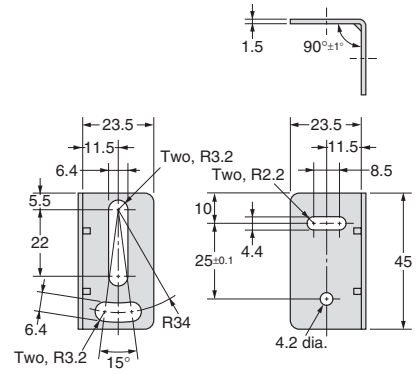
Material:  
Stainless steel (SUS304)



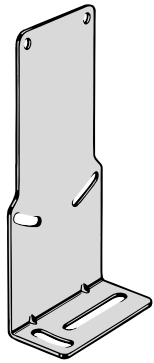
## E39-L132



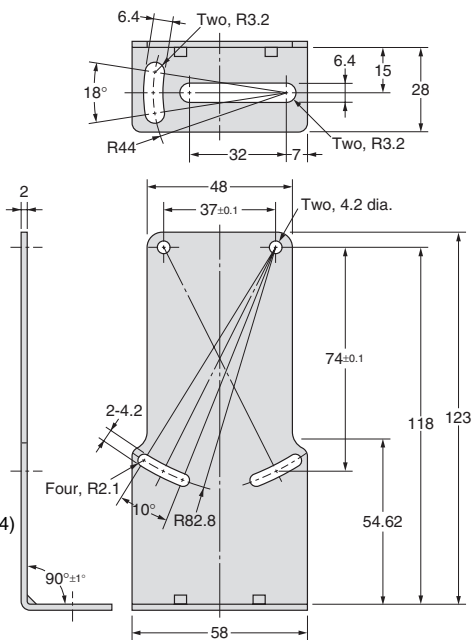
Material: Stainless steel (SUS304)



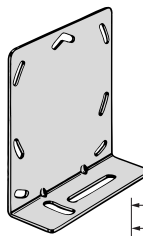
## E39-L135



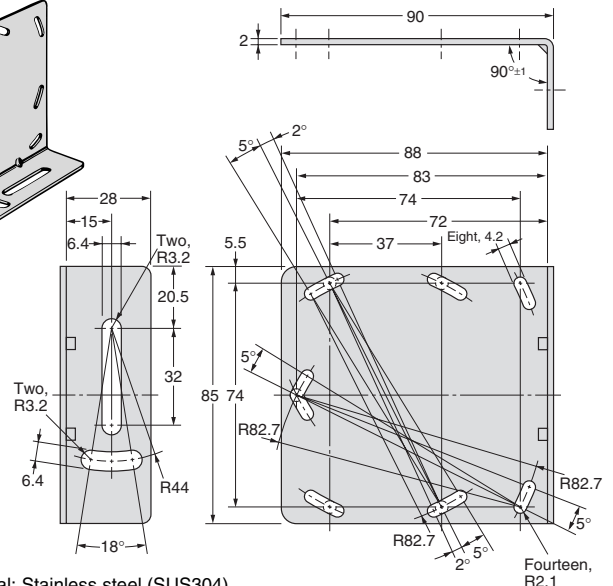
Material:  
Stainless steel (SUS304)



## E39-L136



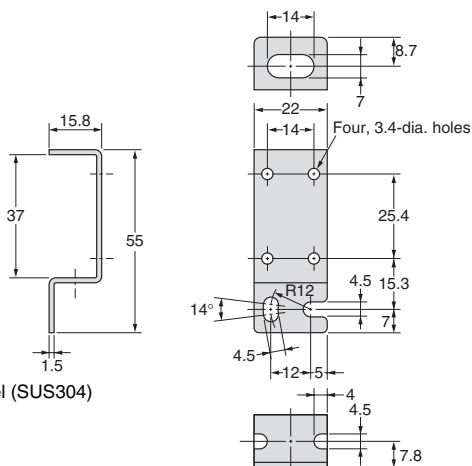
Material: Stainless steel (SUS304)



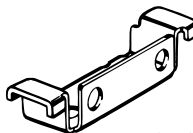
## E39-L142



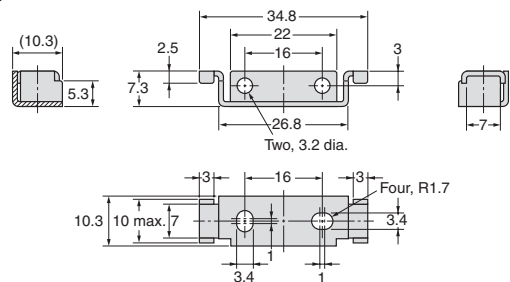
Material: Stainless steel (SUS304)



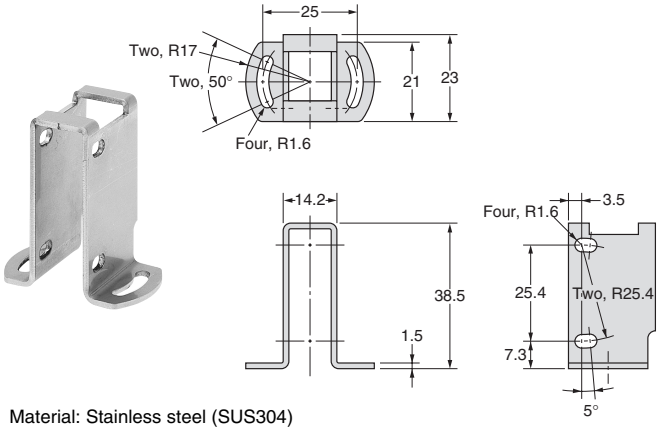
## E39-L143



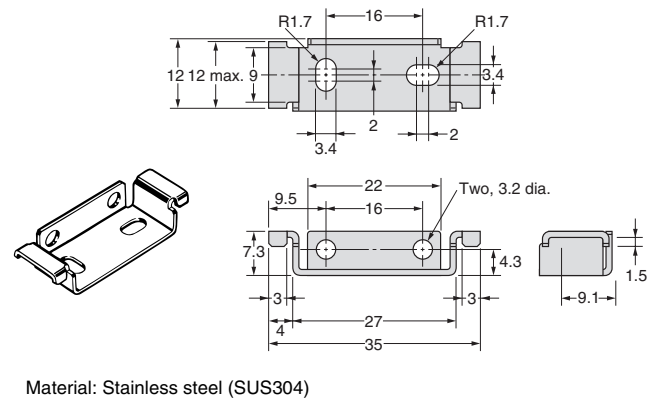
Material: Stainless steel (SUS304)



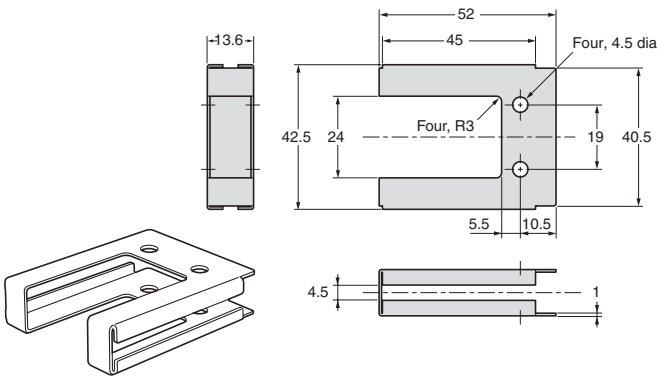
E39-L144



E39-L148

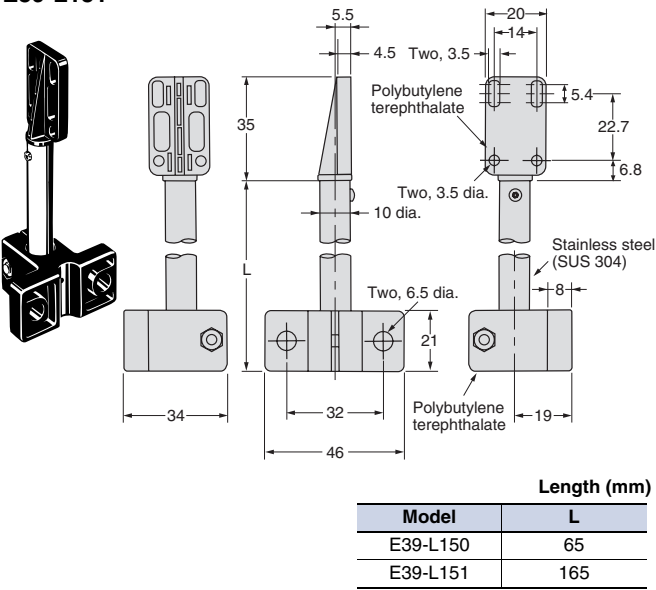


E39-L149

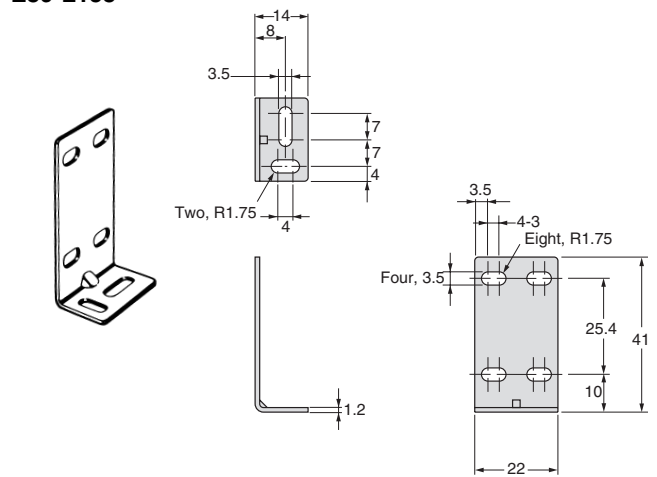


E39-L150

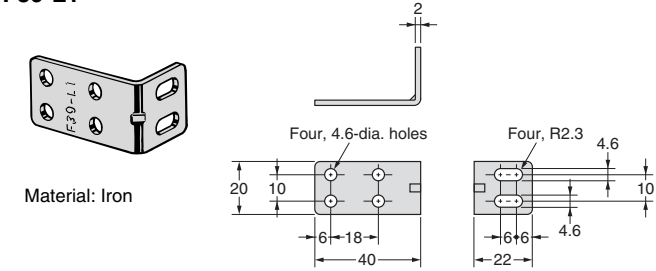
E39-L151



E39-L153

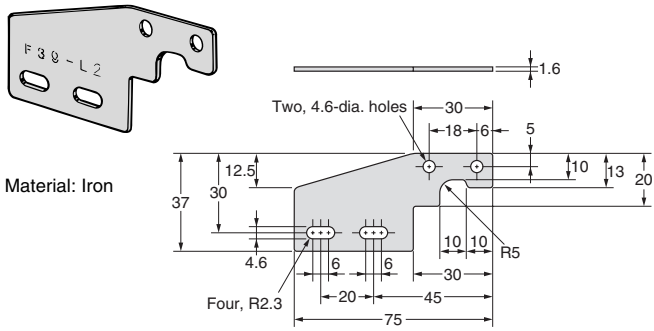


F39-L1

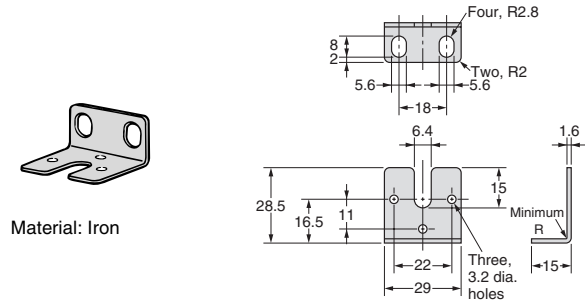


**E39-L/F39-L/E39-S/E39-R**

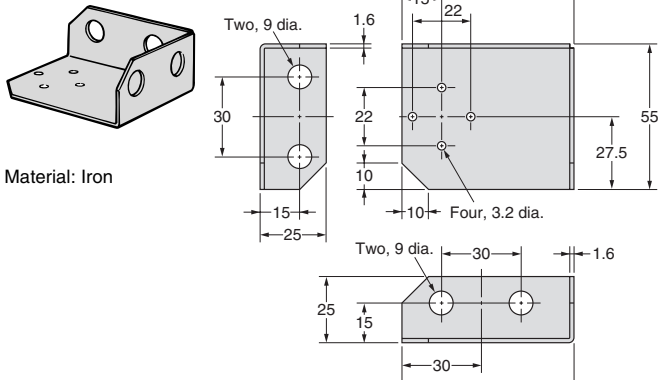
**F39-L2**



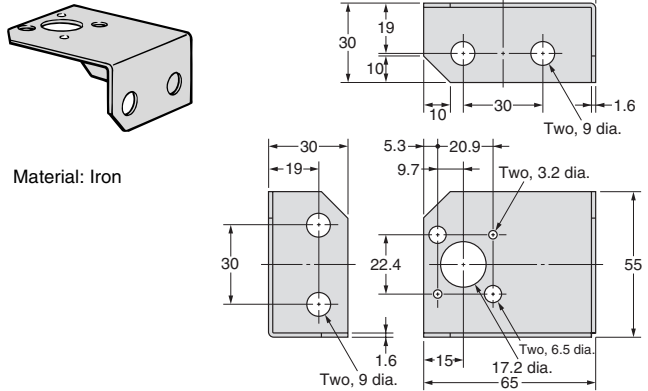
**F39-L3**



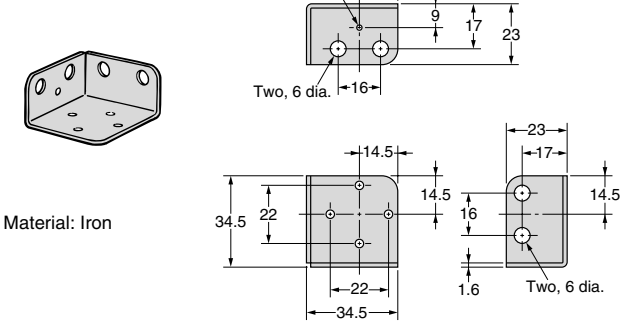
**F39-L4**  
**C Type (Receiver, Top)**



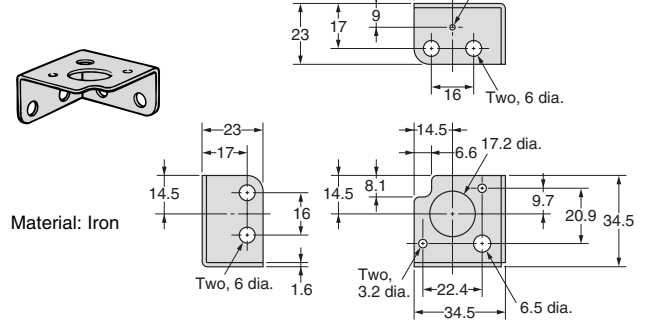
**F39-L4**  
**D Type (Receiver, Bottom)**



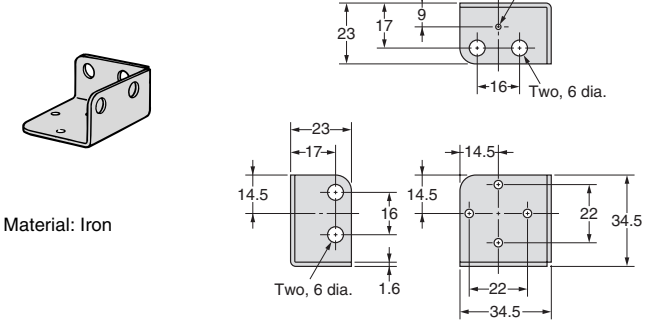
**F39-L5**  
**A Type (Emitter, Top)**



**F39-L5**  
**B Type (Emitter, Bottom)**

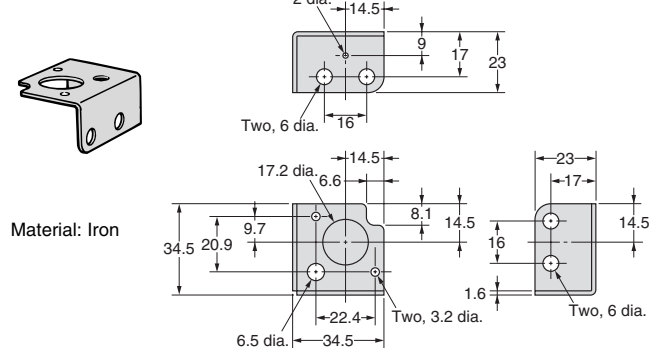


**F39-L5**  
**C Type (Receiver, Top)**

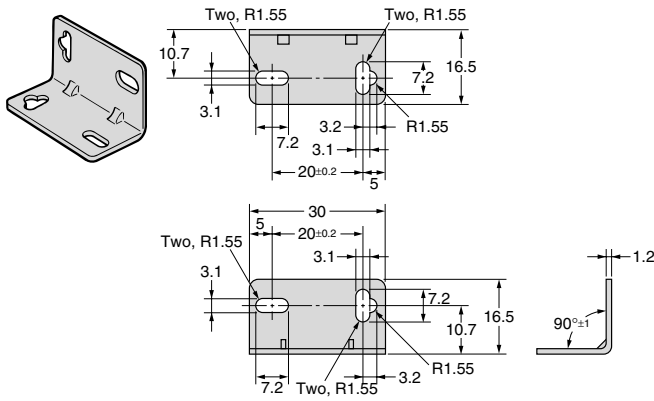


### F39-L5

#### D Type (Receiver, Bottom)

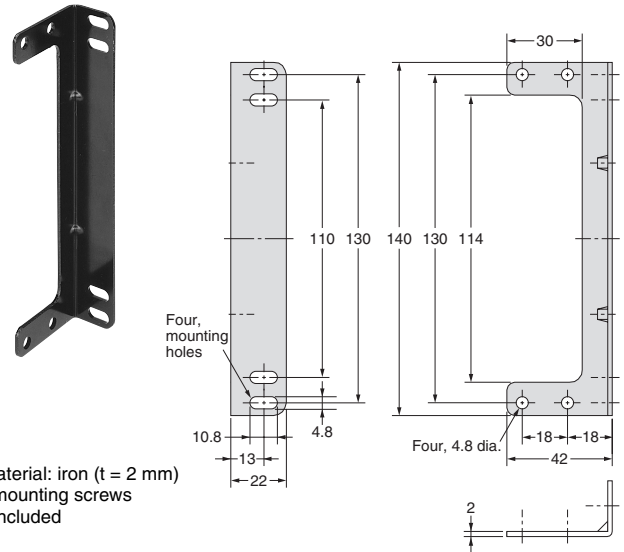


## F39-L9



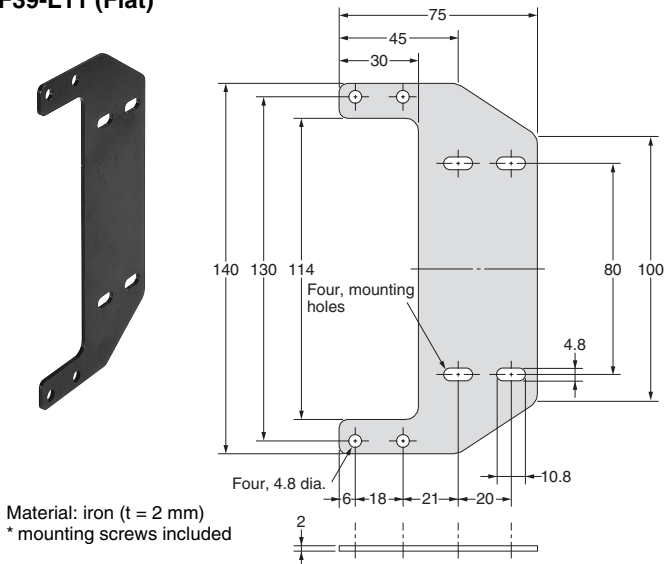
Material: Stainless steel (SUS304-CP)

## F39-L10 (L-shaped)



Material: iron (t = 2 mm)  
\* mounting screws included

## F39-L11 (Flat)



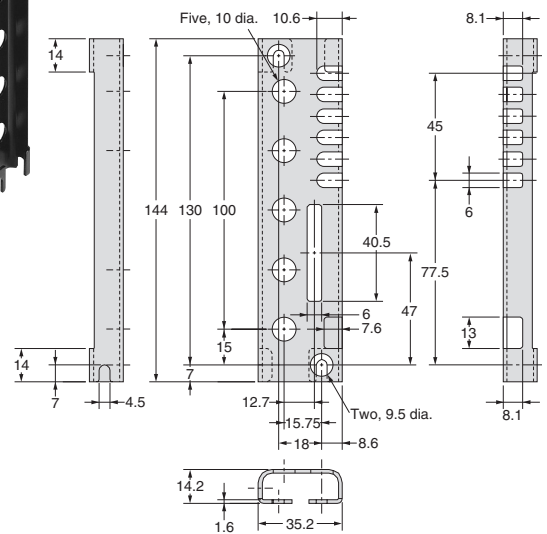
Material: iron (t = 2 mm)  
\* mounting screws included

## F39-L12 (Receiver)



Material: iron (t = 2 mm)  
\* mounting screws included

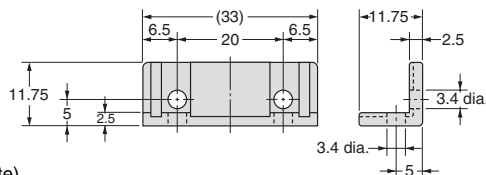
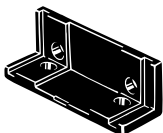
Note: The Receiver sees a mirror-image of the Emitter.



## Contact Mounting Plate

(Unit: mm)  
Tolerance class IT16 applies to dimensions in this datasheet unless otherwise specified.

## E39-L60



Material: PBT (polybutylene terephthalate)

# E39-L/F39-L/E39-S/E39-R

## Reflector dimensions

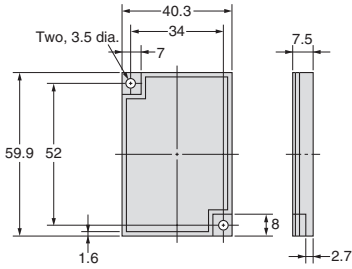
(Unit: mm)

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

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

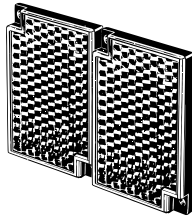


Material,  
reflective surface: acrylic  
Rear surface: ABS

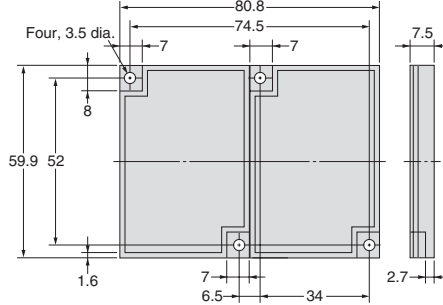


\* E39-R1K only  
Coating on reflective surface

### E39-R2



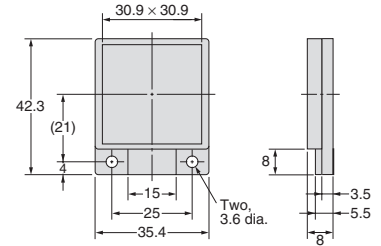
Material,  
reflective surface: acrylic  
Rear surface: ABS



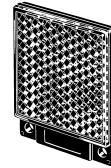
### E39-R9



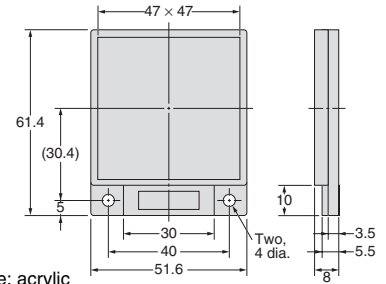
Material,  
reflective surface: acrylic  
Rear surface: ABS



### E39-R10



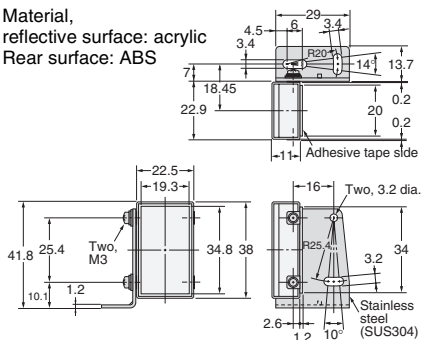
Material,  
reflective surface: acrylic  
Rear surface: ABS



### E39-R3



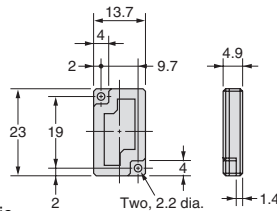
Material,  
reflective surface: acrylic  
Rear surface: ABS



### E39-R4



Material,  
reflective surface: acrylic  
Rear surface: ABS

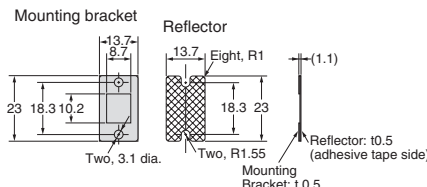


### E39-R37-CA

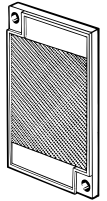


Material:  
Mounting plate: stainless steel (SUS301)  
Reflective surface: acrylic

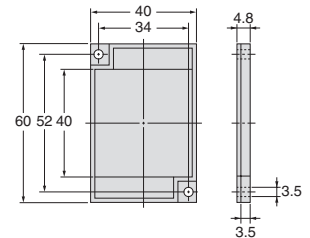
Note: The reflective plate and mounting plate (1) come as a set.



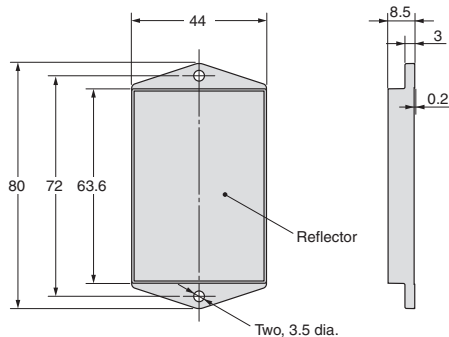
### E39-R6



Material,  
reflective surface: acrylic  
Rear surface: ABS

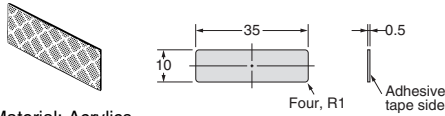


## Retroreflector for E3ZM-B E39-RP1



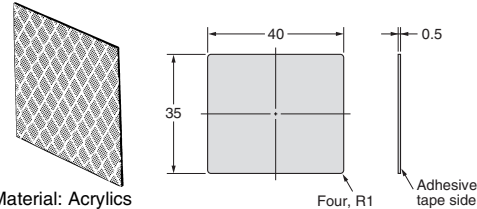


**E39-RS1**  
**E39-RS1-CA**



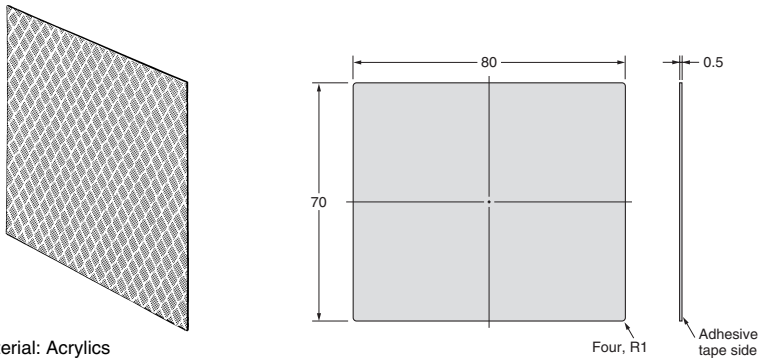
Material: Acrylics

**E39-RS2**  
**E39-RS2-CA**



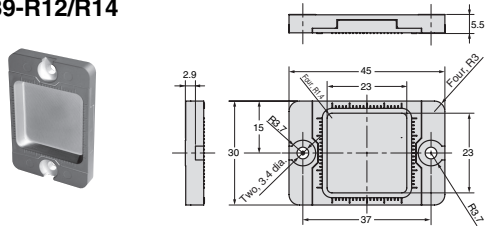
Material: Acrylics

**E39-RS3**  
**E39-RS3-CA**

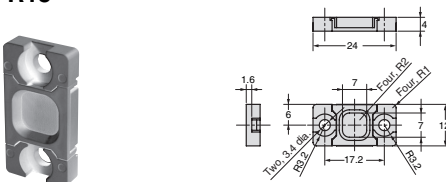


Material: Acrylics

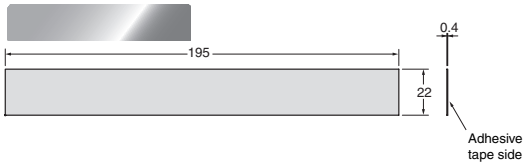
**E39-R12/R14**



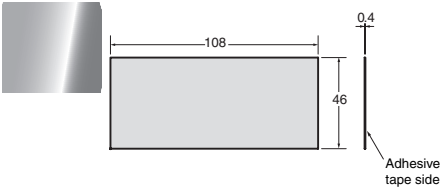
**E39-R13**



**E39-RS4**



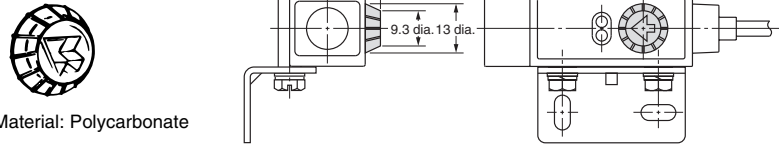
**E39-RS5**



**Sensitivity Adjuster**

(Unit: mm)  
Tolerance class IT16 applies to dimensions in this datasheet unless otherwise specified.

**E39-G1**

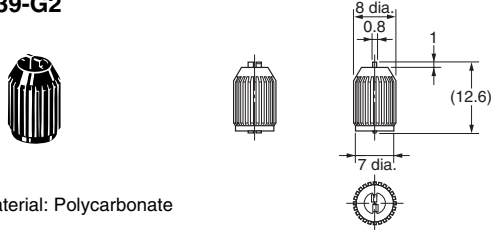


Material: Polycarbonate

**Sensitivity Adjustment Driver**

(Unit: mm)  
Tolerance class IT16 applies to dimensions in this datasheet unless otherwise specified.

**E39-G2**



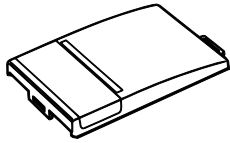
Material: Polycarbonate

## Protective Cover

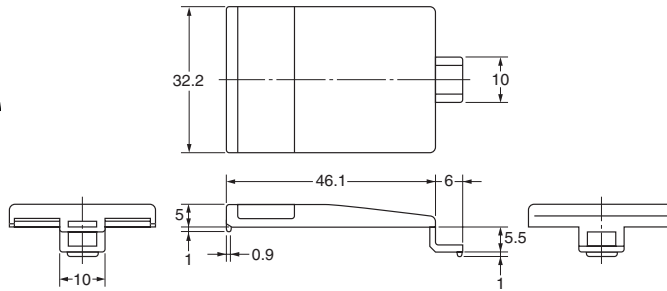
(Unit: mm)

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

### E39-G9



Material: Polycarbonate

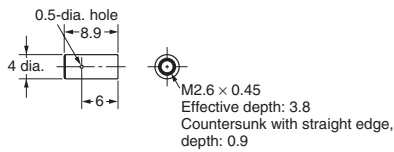


## Lens Unit

(Unit: mm)

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

### E39-F1V

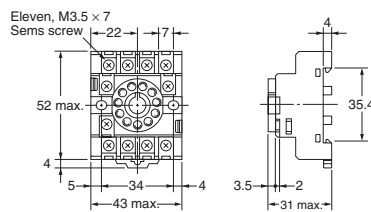
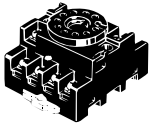


## Connection Sockets

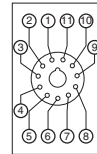
(Unit: mm)

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

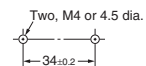
### Front Connection Socket PF113A



### Terminal arrangement/Inter- nal connections (top view)

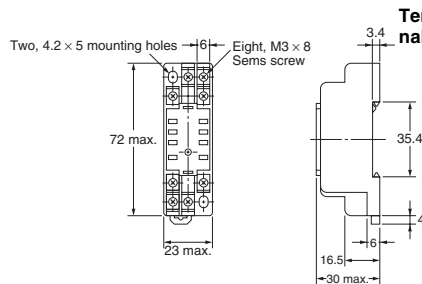
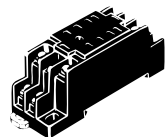


### Mounting Holes

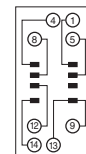


Note: Rail mounting also possible.

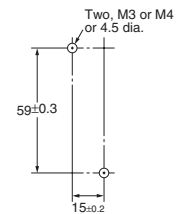
### Front Connection Socket PYF08A



### Terminal arrangement/Inter- nal connections (top view)

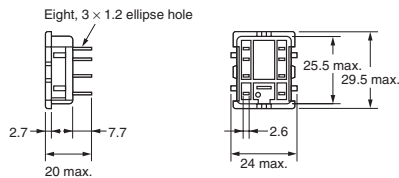
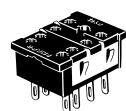


### Mounting Holes

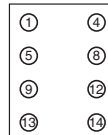


Note: Rail mounting also possible.

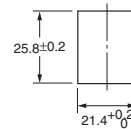
### Front Connection Socket PY08



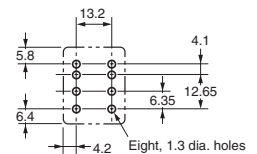
### Terminal arrangement/Inter- nal connections (bottom view)



### Mounting Holes



### PCB Cutout Dimensions



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2008.11

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