CSM_E39-L/E39-S/E39-R_DS_E_19_5

Mounting Brackets [Refer to Dimensions on page 6.]

| | Fitting | | Acce | Applicable sensor | Page | | | |
|----------|-----------------------------|-------|-----------------------------------------------------------------|--------------------------|-------|------------------------------------|------------|--|
| Model | materials | Count | Description | Material | Count | (mounting pitch on sensor side) | Dimensions | |
| E39-L31 | Iron, zinc plating | 1 | Slotted/Phillips screws, M3 \times 12 (with spring washers) | Iron, zinc plating | 2 | E3C-S50 (8) | | |
| E39-L40 | Iron, zinc plating | 1 | Phillips screws M4 × 25 (with spring and plain washers) | Iron, zinc plating | 2 | E3JK | | |
| | | | Nuts M4 | Iron, zinc plating | 2 | | | |
| E39-L41 | Iron, zinc plating | 2 | Phillips screws M3 × 14 (with spring washers) | Iron, zinc plating | 4 | E3C-1 (10) | 5 | |
| | | | Plain washer M3 | Iron, zinc plating | 4 | | | |
| E39-L42 | Iron, | | Phillips screws M3 × 10 (with spring washers) | Iron, zinc plating | 4 | E3C-2 (20) E3C-DS10 (19) | | |
| L03-L42 | black coating | 2 | Plain washer M3 | Iron, zinc plating | 4 | E3C-VS1G (19) E3C-VS3R (19) | | |
| E39-L43 | 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-L44 | 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-L51 | Iron, zinc plating | 1 | Slotted/Phillips screws M4 × 30 (with spring and plain washers) | Iron, zinc plating | 2 | E3JM (40) | 7 | |
| | | | Nuts M4 | Iron, nickel plating | 2 | | _ ′ | |
| E39-L53 | Iron, zinc plating | 1 | | | | E3JM (40) | | |
| E39-L54V | Stainless steel (SUS304) | 1 | | | | E32-T54V | | |
| E39-L83 | Stainless steel | 1 | | | | E32-T24S E32-A03 | | |
| E39-L85 | Stainless steel (SUS304) | 1 | Hexagonal bolts M4 × 12 (with spring and plain washers) | Iron, zinc plating | 2 | E3S-C (25.4) | 0 | |
| E39-L86 | Stainless steel (SUS304) | 1 | Hexagonal bolts M4 × 12 (with spring and plain washers) | Iron, zinc plating | 2 | E3S-C (25.4) | 8 | |
| E39-L87 | Stainless steel (SUS304) | 1 | Hexagonal bolts M4 × 12 (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.

| | Fitting | | Acce | essories | | Applicable sensor | Page | |
|---------------------------------------------------------|-----------------------------|------------------------------------|-----------------------------------------------------------------|---------------------------------------|-------|---------------------------------------------------------------------------------|------------|--|
| Model | materials | Count | Description | Material | Count | (mounting pitch on sensor side) | Dimensions | |
| | 04-1-1 | | Holder (upper) | Heat-resistant ABS resin | 1 | , | | |
| E39-L93FH | Stainless steel (SUS304) | 1 | Holder (lower) | 66 nylon | 1 | | | |
| | (303304) | | Pipe | Stainless steel (SUS304) | 1 | | | |
| E39-L93FV | Stainless steel | 1 | Bolts M4 × 12 with Hexagonal holes | Iron, nickel plating | 2 | | | |
| | (SUS304) | Bolts M4 × 30 with hexagonal holes | | Iron, nickel plating | 1 | E3Z (25.4) E39-R1/E39-R3 | 9 | |
| E39-L93H | Stainless steel (SUS304) | 1 | Phillips screws M3 × 12 (with spring and plain washers) | Stainless steel (SUS304) | 2 | | | |
| | Ctainless steel | | Spring washer M4 | Iron, nickel plating | 1 | | | |
| E39-L93V | Stainless steel (SUS304) | 1 | Plain washer M4 | Iron, nickel plating | 1 | | | |
| | (303304) | | Nuts M4 | Iron, nickel plating | 3 | | | |
| | | | Holder | 66 nylon | 1 | | | |
| F00 6000/ | | | Pipe | Stainless steel (SUS304) | 1 | E3Z (25.4) | | |
| E39-L93XY | | | Bolts M5 × 16 with hexagonal holes | Stainless steel (SUS304) | 2 | E39-R1/E39-R3 | | |
| | | | Nuts M5 | Stainless steel (SUS304) | 2 | | | |
| | | | Phillips screws M3 × 10 | Iron, zinc plating | 4 | E32-T16P (19) | 1 | |
| E39-L94 | Iron, zinc plating | 2 | Nuts M3 | Iron, zinc plating | 4 | E32-T16PR (19) | | |
| E39-L96 | | | Trails in S | Tron, zino piating | | (, | 10 | |
| * 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-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) | - | |
| 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) | 11 | |
| 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) E32-R21 (for installation of E39-R3) (25.4) | - 11 | |
| E39-L116 | Stainless steel (SUS304) | 1 | Nut plate | Stainless steel (SUS304) | 1 | E3T-S (9/15) | | |
| E39-L117 | Stainless steel (SUS304) | 1 | Nut plate | Stainless steel (SUS304) | 1 | E3T-S (9/15) | | |
| E39-L118 | Stainless steel (SUS304) | 1 | Nut plate | 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) | 12 | |
| E39-L127-T1 | Iron, zinc plating | 1 | Phillips screws M2.3 × 8 Spring washer M2.3 | Iron, zinc plating Iron, zinc plating | 4 | | 1 | |
| E39-L127-T2 | Iron, zinc plating | 1 | Phillips screws M2.3 × 8 | Iron, zinc plating | 4 4 | E3C-S10 (7.5) | | |
| | | - | Spring washer M2.3 | Iron, zinc plating | | - | | |
| E39-L127-T3 | Iron, zinc plating | 1 | Phillips screws M2.3 × 8 | Iron, zinc plating 4 | | | | |
| | , , | | Spring washer M2.3 | Iron, zinc plating | 4 | | | |

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

| | Fitting | | Acce | essories | | Applicable sensor | Page | |
|----------|----------------------------------------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------------------------------------------------------------------------------------------|------------|--|
| Model | materials | Count | Description | Material | Count | (mounting pitch on sensor side) | Dimensions | |
| 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 | | | E3NX-CA E3NX-FA E3X-DA-S/MDA E3NC-LA E3NC-SA E2CY-SD E9NC-TA E3X-NA E3C-LDA E2C-EDA 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 Shaft (brace) Bolt with hexagonal hole Nut Phillips screw Slotted/Phillips screws | PBT (polybutylene tereph- thalate) Stainless steel (SUS304) Stainless steel (SUSXM7) Stainless steel (SUS304) Stainless steel (SUSXM7) Stainless steel (SUS304) | 1 1 1 1 1 2 | E3Z (25.4) E3S-R6□/R8□ (20) E39-R3 | 14 | |
| E39-L151 | Stainless steel (SUS304) Stainless steel (SUS304) | 1 | Holder/bracket Shaft (brace) Bolt with hexagonal hole Nut Phillips screw Slotted/Phillips screws Slotted/Phillips screws M3 × 8 (with spring and plain washers) | PBT (polybutylene tereph- thalate) Stainless steel (SUS304) Stainless steel (SUSXM7) Stainless steel (SUS304) Stainless steel (SUSXM7) Stainless steel (SUS304) Stainless steel (SUSXM7) Stainless steel (SUS304) | 1 1 1 1 1 2 | E3Z (25.4) E3S-R6□/R8□ (20) E39-R3 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 Nut plate | Stainless steel Stainless steel | 2 | ZX1-LD50□ ZX1-LD100□ | | |
| E39-L181 | Stainless steel (SUS304) | 1 | Phillips screw Nut plate | Stainless steel Stainless steel | 2 | ZX1-LD300□ ZX1-LD600□ | 16 | |
| E39-L185 | Stainless steel (SUS304) | 1 | Phillips screw Nut plate | Stainless steel Stainless steel | 2 | E3NC-LH02 | | |
| E39-L186 | Stainless steel (SUS304) | 1 | Phillips screw Nut plate | Stainless steel Stainless steel | 2 | E3NC-LH01 | | |
| E39-L187 | Stainless steel (SUS304) | 1 | Phillips screw Nut plate | Stainless steel Stainless steel | 2 | E3NC-SH250H E3NC-SH250 E3NC-SH100 | | |
| E39-L188 | Stainless steel (SUS304) | 1 | Phillips screw Nut plate | Stainless steel Stainless steel | 2 | E3NC-SH250H E3NC-SH250 E3NC-SH100 | 17 | |
| E39-L190 | Stainless steel (SUS304) | 1 | Phillips screw Nut plate | Stainless steel Stainless steel | 2 | E3NC-LH03 | | |
| | · ' | 1 | <u> </u> | 1 | | | 1 | |

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 | | |
| E39-S61 | Width 0.5, 1, 2, 4 × 11 mm | | 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. | | | | |
| E39-S65B | 1-mm dia. | Plug-in type | | | |
| E39-S65C | 2-mm dia. | | E3Z-T□□ | | |
| E39-S65D | Width 0.5 × 10 mm | | E3Z-1 | | |
| 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 E32-T16PR | | |
| E39-S76A | 0.5-mm dia. | Plug in type | E3T-ST□M | | |
| E39-S76B | 1-mm dia. | Plug-in type | E31-31 LIVI | | |

Note:

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

Reflectors (Refer to Dimensions on page 18.)

| | Name | | | 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 | E39-RSP1 | E39-RP37 |
| Directional ang | le | 30° min. *1 30° min. *2 30° min. | | | | | | | | |
| Ambient operating temperature range | | −25 to 55°C −40 to 60°C | | | | | | −25 to 55°C | | |
| Ambient storag | | -40 to 70°C -40 to 55°C -40 to 70°C | | | | 0 to 40°C | | | | |
| Ambient operate humidity range | | | | 35% to 85% | • | | 35% to 95% | | 35% to 85% | |
| Ambient storage humidity range | | | | | 35% to 95% | | | | 35% t | o 85% |
| Degree of prote | ection | IEC IP67 | | | | | | | | |
| Accessories | | | | | - | | | | | Phillips screws M3 × 8, spring washers M3, nuts M3 |

^{*1. 40°} or higher for E3JM-R and E3JK-R. *2. 40° or higher for E3G-R.

| | Name | | Small re | eflector | Tape reflector * | | | |
|--------------------------------------------------|----------|-----------------------|--------------------------------------------------|----------|----------------------------------------------------|-----------------------|-----------------------|-----------------------|
| Item | Model | E39-R9 | E39-R3 | E39-R4 | E39-R37-CA * | E39-RS1 E39-RS1-CA | E39-RS2 E39-RS2-CA | E39-RS3 E39-RS3-CA |
| Directional a | ngle | | | | 30° min. | | | |
| Ambient operating temperature range -25 to 55°C | | | | | | | | |
| Ambient stortemperature | | -40 to 70°C 0 to 40°C | | | | | | |
| Ambient ope humidity ran | | 35% to 95% | 35% to 85% | | | | | |
| Ambient sto | | 35% to 95% 35% to 85% | | | | | | |
| Degree of pr | otection | | IEC IP67 | | | | | |
| Accessories | | | Mounting Brack- ets E39-L104 (with screws) | | Phillips screws M3 × 8, spring washers M3, nuts M3 | | | |

^{*} Models ending in the suffix "-CA" are reflectors only for E3T-SR4.

| | Name | Laser Reflectors | | | | | | | | |
|-------------------------------------|-------|------------------------|-----------------------------|-----------------------------|---------|---------|--|--|--|--|
| | | Stan | Standard S | | She | ets | | | | |
| Item | Model | E39-R12 | E39-R13 | E39-R14 | E39-RS4 | E39-RS5 | | | | |
| Ambient operating temperature range | | −10 to 55°C (No icing) | | | | | | | | |
| Ambient sto temperature | • | −25 to 70°C (No icing) | | | | | | | | |
| Ambient operating humidity range | | | | 35 to 85% (No condensation) | | | | | | |
| Ambient sto humidity rai | | | 35 to 85% (No condensation) | | | | | | | |

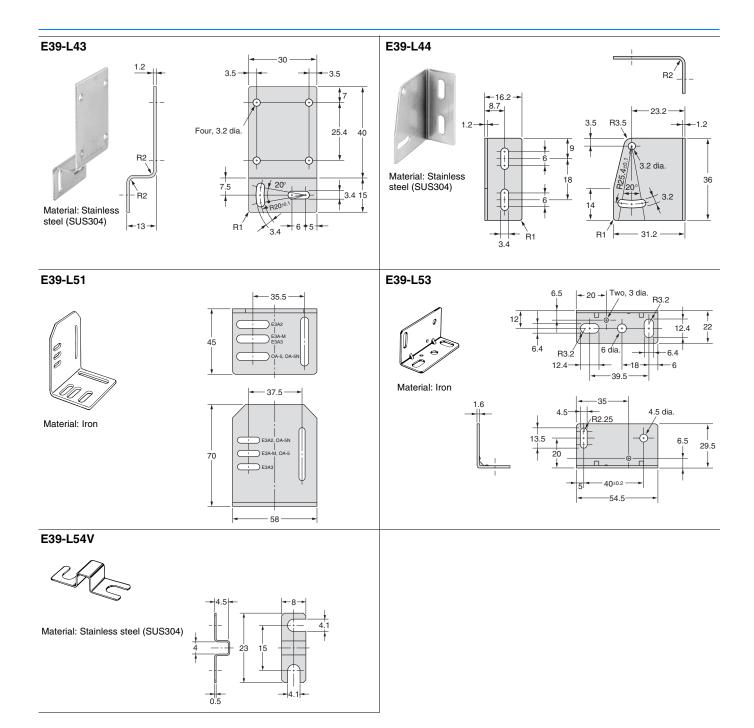
| | Name | | | | | | | |
|------------------------------------------------------------|-------|--------------------------------------------|-----------|------------|------------|--|--|--|
| | | Stan | dard | She | eets | | | |
| Item | Model | E39-R21 * | E39-R22 * | E39-RS10 * | E39-RS11 * | | | |
| Ambient op temperature | | −10 to 55°C (No icing and no condensation) | | | | | | |
| Ambient sto | _ | -25 to 70°C (No icing and no condensation) | | | | | | |
| Ambient op humidity ra | | 35 to 85% (No condensation) | | | | | | |
| Ambient storage humidity range 35 to 85% (No condensation) | | | | | | | | |

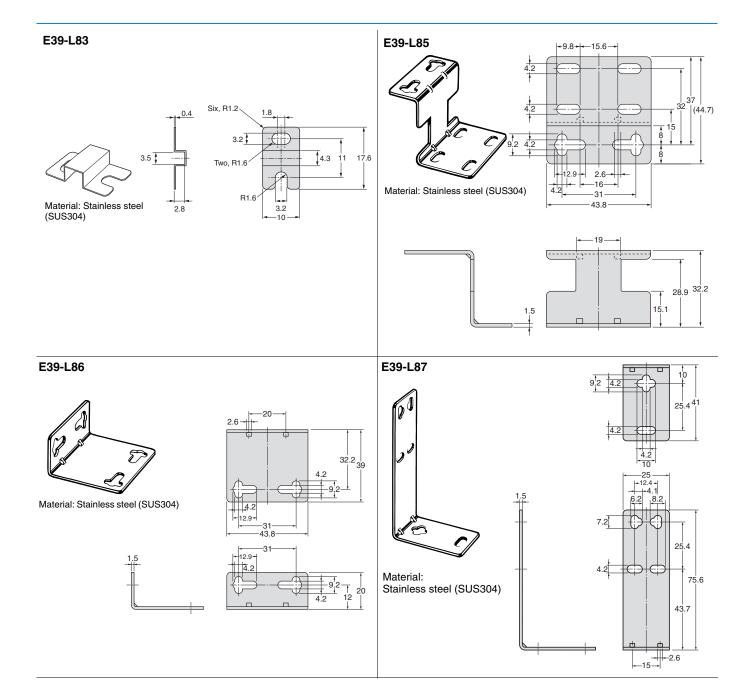
^{*} Models only for E3NC-LH03

E39-L31 E39-L40 Four, R1.6 3.9 Two, R5 — 42±0.1 → 3.9 ⊢3.2 Material: Iron Two, R5 Material: Iron -12-Two, 4.4 dia Two, R5.6 Two, R5 √Two, R5 R3 |-8-| Two, M3 4.5 dia. max. Pushing out height: 0.6 min. 31.2 21.9 **4**5' E39-L41 E39-L42 -27-Material: Iron Material: Iron | 21 15.5 | R3 | 10±0.1 | 2-M3

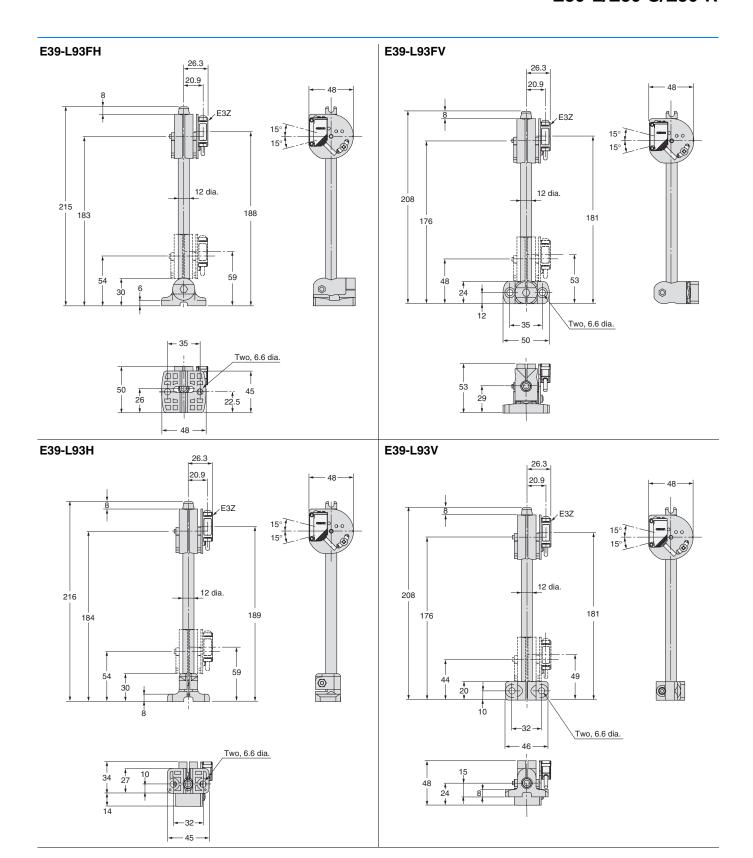
4.5 dia. max. Pushing out height: 0.6 min.

E39-L/E39-S/E39-R

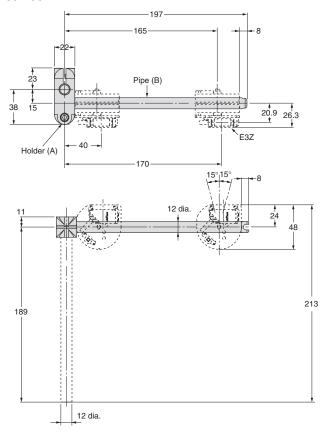




E39-L/E39-S/E39-R

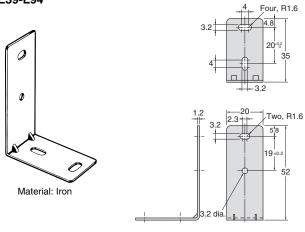


E39-L93XY



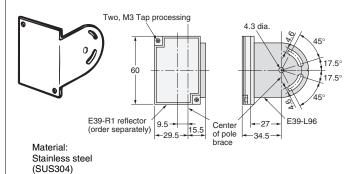
Note: The E39-L93XY consists of only the one joint holder (A) and pipe, and the two hexagonal bolts and nuts. It cannot be mounted to the Sensor alone.

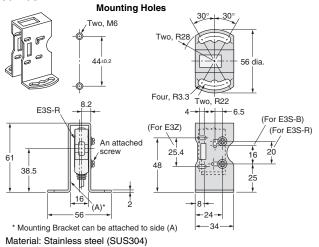
E39-L94



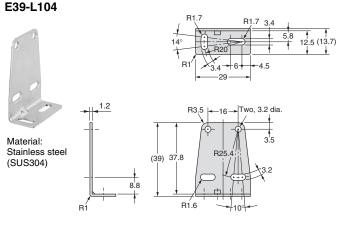
E39-L96

2-mm-thick

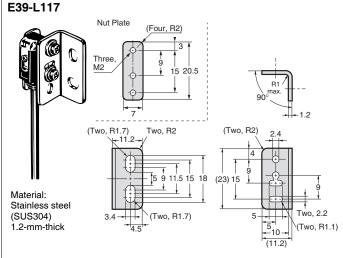


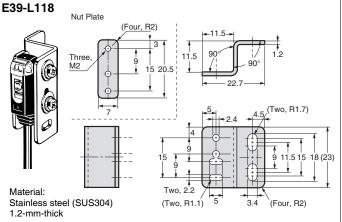


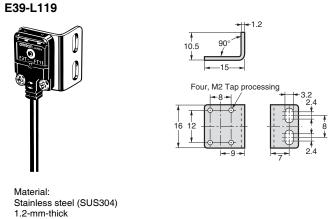
E39-L102 E39-L103 E39-L103 E39-L103 E39-L103 E39-L103 E39-L104 E39-L104 E39-L104 E39-L104

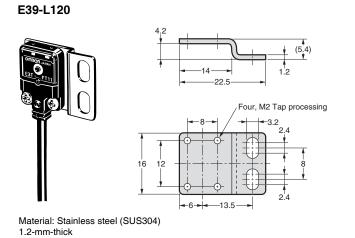


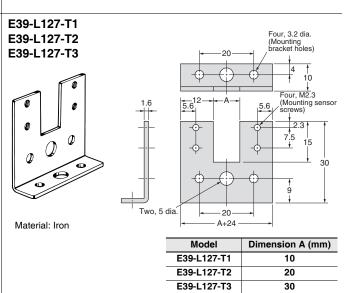
E39-L116 Nut Plate (Four, R2) (Two, R1.7) Three M2 (17.8)15 20.5 (Two, R2) (Two, R1.1) Material: Stainless steel (SUS304) (Two, R1.2) 1.2-mm-thick R1.5 max. E39-L118 Nut Plate (Four, R2) Three. M2





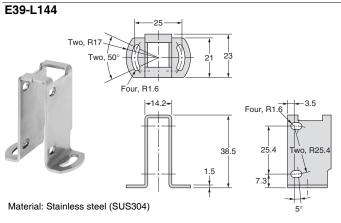


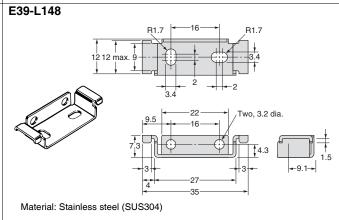


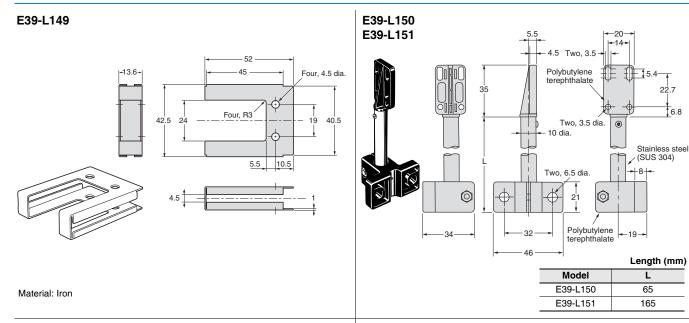


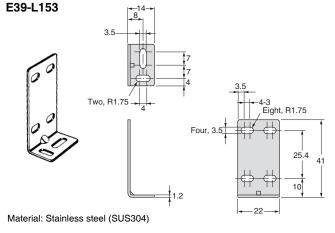
E39-L143 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 10

Material: Stainless steel (SUS304)

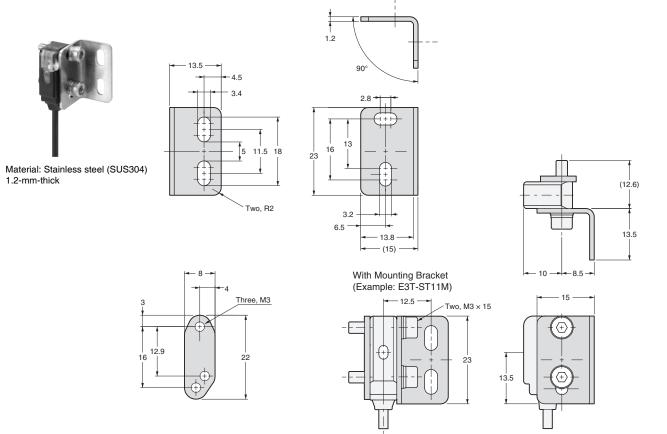


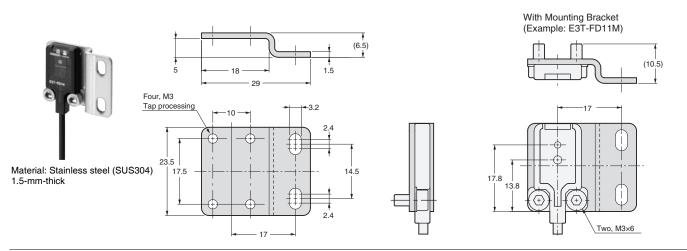




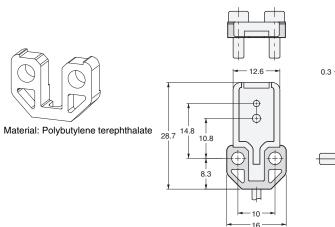


E39-L166



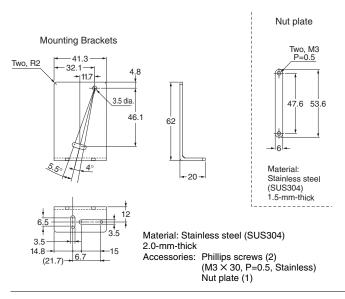


E39-L168



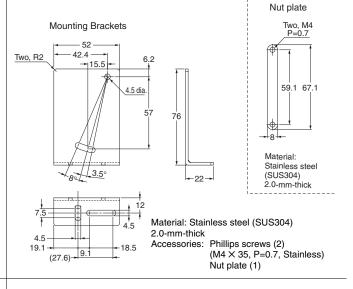
Note: Use this Spacer when mounting the Sensor from the back.

E39-L180

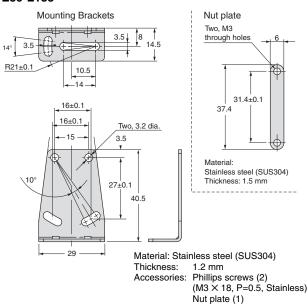


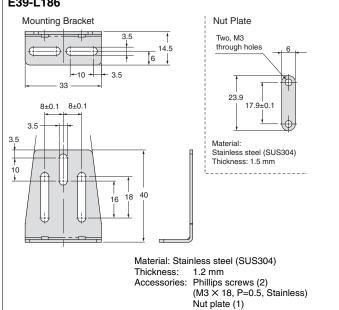
E39-L181

(7.3)

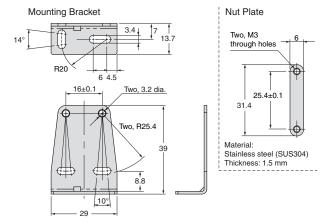


E39-L185





E39-L187

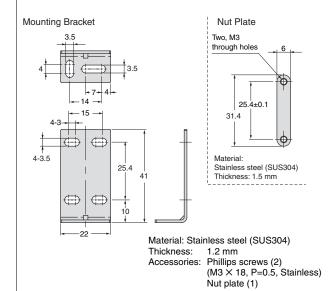


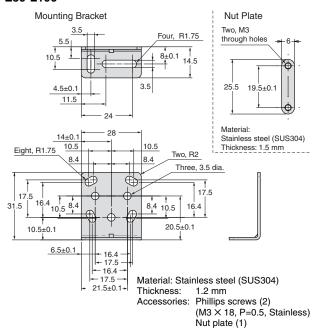
Material: Stainless steel (SUS304)

Thickness: 1.2 mm

Accessories: Phillips screws (2) (M3 × 18, P=0.5, Stainless) Nut plate (1)

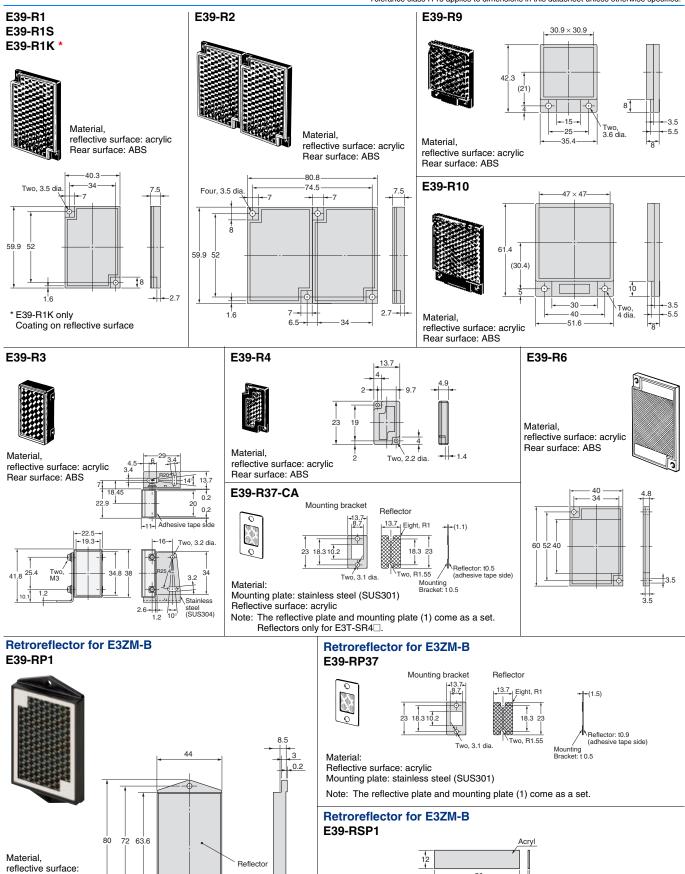
E39-L188



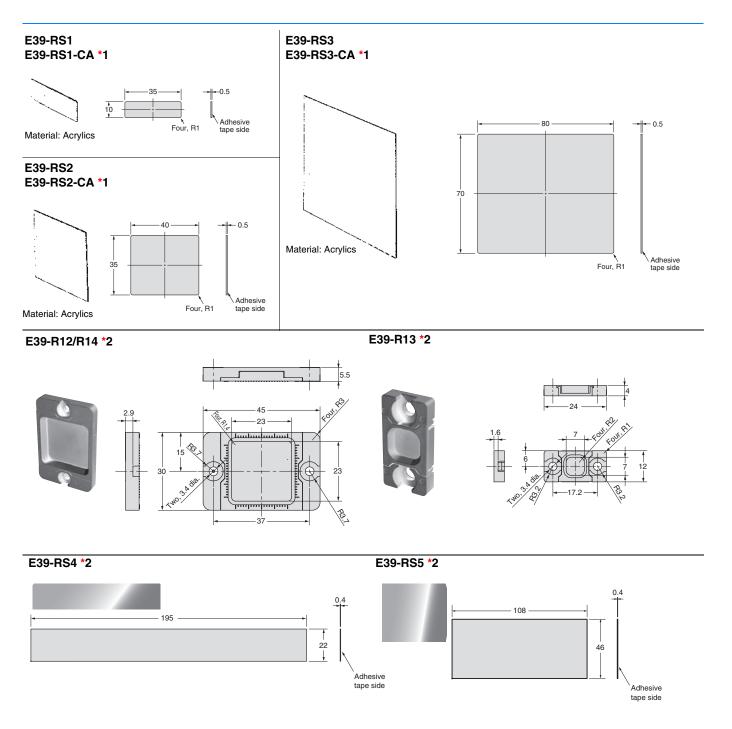


Reflector dimensions

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



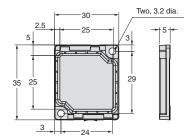
Two, 3.5 dia.



^{*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.

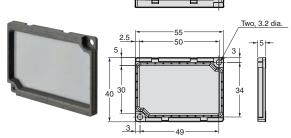
E39-R21 *3





Material, reflective surface: methacrylic resin (PMMA) Rear surface: Polybutylene terephthalate (PBT)

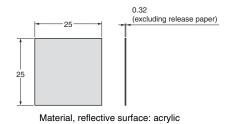
E39-R22 *3



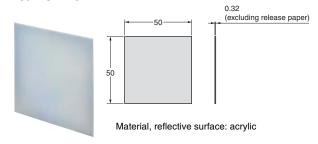
Material, reflective surface: methacrylic resin (PMMA) Rear surface: Polybutylene terephthalate (PBT)

E39-RS10 *3





E39-RS11 *3



^{*3.} Models only for E3NC-LH03

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2018.2

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