

Mounting Brackets

E39-L

Slits/Reflectors

E39-S/E39-R

CSM_E39-L/E39-S/E39-R_DS_E_19_5

Mounting Brackets [Refer to *Dimensions* on page 6.]

Model	Fitting materials	Count	Accessories			Applicable sensor (mounting pitch on sensor side)	Page Dimensions
			Description	Material	Count		
E39-L31	Iron, zinc plating	1	Slotted/Phillips screws, M3 × 12 (with spring washers)	Iron, zinc plating	2	E3C-S50 (8)	5
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)	
			Plain washer M3	Iron, zinc plating	4		
E39-L42	Iron, black coating	2	Phillips screws M3 × 10 (with spring washers) Plain washer M3	Iron, zinc plating Iron, zinc plating	4 4	E3C-2 (20) E3C-DS10 (19) E3C-VS1G (19) E3C-VS3R (19)	7
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) Nuts M4	Iron, zinc plating	2	E3JM (40)	
				Iron, nickel plating	2		
E39-L53	Iron, zinc plating	1	---	---	---	E3JM (40)	8
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)	
E39-L86	Stainless steel (SUS304)	1	Hexagonal bolts M4 × 12 (with spring and plain washers)	Iron, zinc plating	2	E3S-C (25.4)	
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.

Model	Fitting materials	Count	Accessories			Applicable sensor (mounting pitch on sensor side)	Page Dimensions
			Description	Material	Count		
E39-L93FH	Stainless steel (SUS304)	1	Holder (upper)	Heat-resistant ABS resin	1	E3Z (25.4) E39-R1/E39-R3	9
E39-L93FV	Stainless steel (SUS304)	1	Holder (lower)	66 nylon	1		
			Pipe	Stainless steel (SUS304)	1		
E39-L93H	Stainless steel (SUS304)	1	Bolts M4 × 12 with Hexagonal holes	Iron, nickel plating	2		
			Bolts M4 × 30 with hexagonal holes	Iron, nickel plating	1		
E39-L93V	Stainless steel (SUS304)	1	Phillips screws M3 × 12 (with spring and plain washers)	Stainless steel (SUS304)	2	E3Z (25.4) E39-R1/E39-R3	10
E39-L93XY	---	---	Spring washer M4	Iron, nickel plating	1		
			Plain washer M4	Iron, nickel plating	1		
E39-L94	Iron, zinc plating	2	Nuts M4	Iron, nickel plating	3		
			Holder	66 nylon	1		
E39-L96	---	---	Pipe	Stainless steel (SUS304)	1	E3Z (25.4) E39-R1/E39-R3	11
E39-L98	Stainless steel (SUS304)	1	Bolts M5 × 16 with hexagonal holes	Stainless steel (SUS304)	2		
			Nuts M5	Stainless steel (SUS304)	2		
E39-L99	Stainless steel (SUS304)	1	Phillips screws M3 × 10	Iron, zinc plating	4		
E39-L100	Stainless steel (SUS304)	1	Nuts M3	Iron, zinc plating	4		
E39-L101	Stainless steel (SUS304)	1	Phillips screws M3 × 6 (with spring and plain washers)	Iron, nickel plating	2	E39-R1	12
E39-L102	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-L103	Stainless steel (SUS304)	1	Hexagonal bolts M4 × 12 (with spring and plain washers)	Iron, zinc plating	2	E3S-C (horizontal type) (25.4)	
E39-L104	Stainless steel (SUS304)	1	Hexagonal bolts M4 × 12 (with spring and plain washers)	Iron, zinc plating	2	E3S-C (vertical type) (25.4)	
E39-L105	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)	
E39-L116	Stainless steel (SUS304)	1	Nut plate	Stainless steel (SUS304)	1	E3T-S (9/15)	12
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)	
E39-L127-T1	Iron, zinc plating	1	Phillips screws M2.3 × 8	Iron, zinc plating	4	E3C-S10 (7.5)	
E39-L127-T2	Iron, zinc plating	1	Spring washer M2.3	Iron, zinc plating	4		
E39-L127-T3	Iron, zinc plating	1	Phillips screws M2.3 × 8	Iron, zinc plating	4		
E39-L127-T4	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 (mounting pitch on sensor side)	Page Dimensions
			Description	Material	Count		
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)	13
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	
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	14
E39-L150	Stainless steel (SUS304)	1	Holder/bracket Shaft (brace) Bolt with hexagonal hole Nut Phillips screw Slotted/Phillips screws	PBT (polybutylene terephthalate) Stainless steel (SUS304) Stainless steel (SUSXM7) Stainless steel (SUS304) Stainless steel (SUSXM7) Stainless steel (SUS304)	1 1 1 1 2	E3Z (25.4) E3S-R6□/R8□ (20) E39-R3	
E39-L151	Stainless steel (SUS304)	1	Holder/bracket Shaft (brace) Bolt with hexagonal hole Nut Phillips screw Slotted/Phillips screws	PBT (polybutylene terephthalate) Stainless steel (SUS304) Stainless steel (SUSXM7) Stainless steel (SUS304) Stainless steel (SUSXM7) Stainless steel (SUS304)	1 1 1 1 2	E3Z (25.4) E3S-R6□/R8□ (20) E39-R3	
E39-L153	Stainless steel (SUS304)	1	Slotted/Phillips screws M3 × 8 (with spring and plain washers)	Stainless steel (SUSXM7) 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)	15
E39-L167	Stainless steel (SUS304)	1	---	---	---	E3T-FD□□M (8)	
E39-L168	PBT (polybutylene terephthalate)	1	---	---	---	E3T-FD□□M	16
E39-L180	Stainless steel (SUS304)	1	Phillips screw Nut plate	Stainless steel Stainless steel	2 1	ZX1-LD50□ ZX1-LD100□	
E39-L181	Stainless steel (SUS304)	1	Phillips screw Nut plate	Stainless steel Stainless steel	2 1	ZX1-LD300□ ZX1-LD600□	
E39-L185	Stainless steel (SUS304)	1	Phillips screw Nut plate	Stainless steel Stainless steel	2 1	E3NC-LH02	
E39-L186	Stainless steel (SUS304)	1	Phillips screw Nut plate	Stainless steel Stainless steel	2 1	E3NC-LH01	17
E39-L187	Stainless steel (SUS304)	1	Phillips screw Nut plate	Stainless steel Stainless steel	2 1	E3NC-SH250H E3NC-SH250 E3NC-SH100	
E39-L188	Stainless steel (SUS304)	1	Phillips screw Nut plate	Stainless steel Stainless steel	2 1	E3NC-SH250H E3NC-SH250 E3NC-SH100	
E39-L190	Stainless steel (SUS304)	1	Phillips screw Nut plate	Stainless steel Stainless steel	2 1	E3NC-LH03	

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	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 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 18.)

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	E39-RSP1	E39-RP37	
Directional angle	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 storage temperature range	-40 to 70°C		-40 to 55°C		-40 to 70°C				0 to 40°C		
Ambient operating humidity range	35% to 85%					35% to 95%		35% to 85%			
Ambient storage humidity range	35% to 95%								35% to 85%		
Degree of protection	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 reflector				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 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 × 8, spring washers M3, nuts M3	---			

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

Item	Name Model	Laser Reflectors				
		Standard		Short-distance transparent object detection	Sheets	
		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)				

Name		Laser Reflectors			
Item	Model	Standard		Sheets	
		E39-R21 *	E39-R22 *	E39-RS10 *	E39-RS11 *
Ambient operating temperature range		-10 to 55°C (No icing and no condensation)			
Ambient storage temperature range		-25 to 70°C (No icing and no condensation)			
Ambient operating humidity range		35 to 85% (No condensation)			
Ambient storage humidity range		35 to 85% (No condensation)			

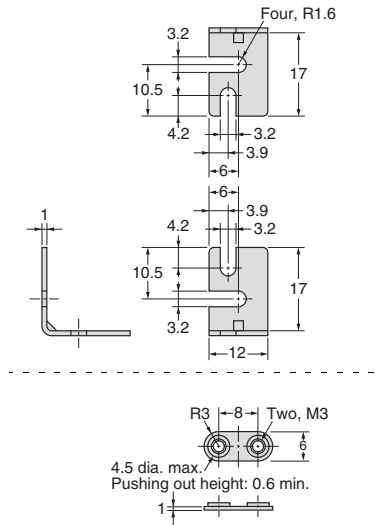
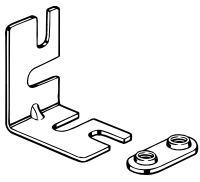
* Models only for E3NC-LH03

Mounting Bracket Dimensions

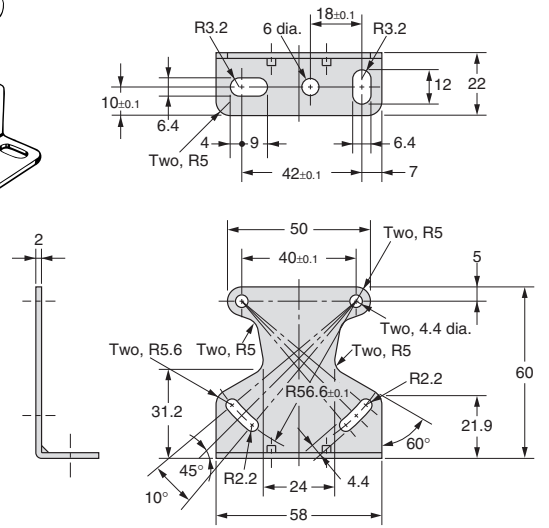
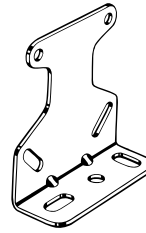
(Unit: mm)

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

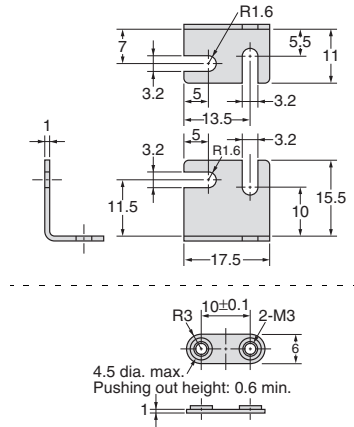
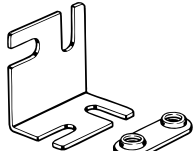
E39-L31



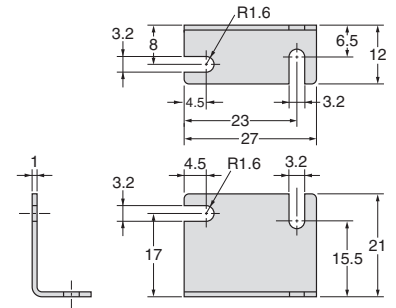
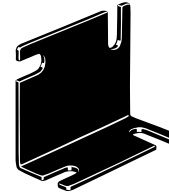
E39-L40



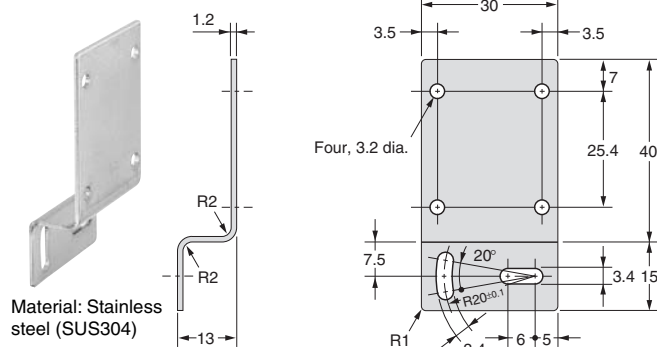
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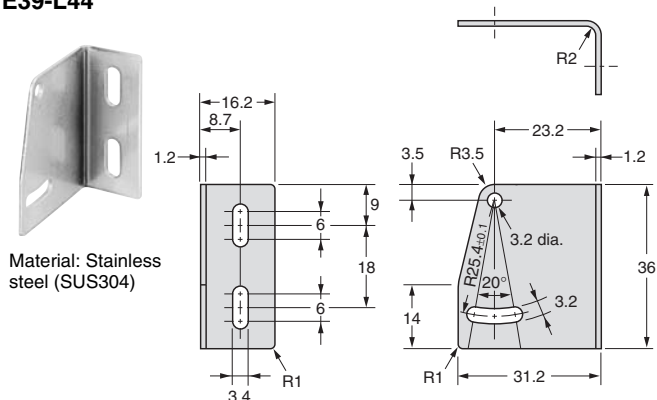
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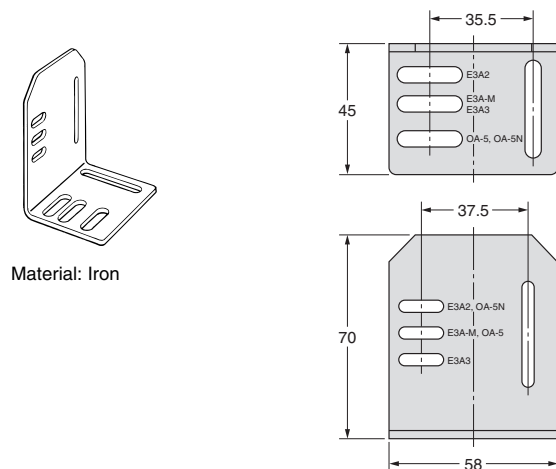
E39-L43



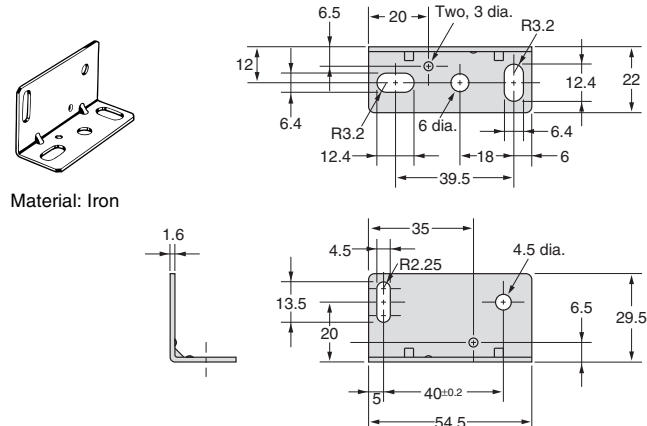
E39-L44



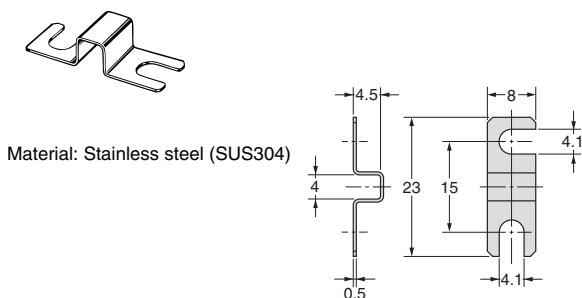
E39-L51



E39-L53



E39-L54V



Material: Stainless steel (SUS304)

Dimensions (mm):

- Top View:
 - Overall Width: 11
 - Overall Height: 17.6
 - Central Slot Width: 3.2
 - Central Slot Depth: 3.2
 - Top Hole Diameter: 1.8
 - Top Hole Radius: R1.2
 - Bottom Hole Radius: R1.6
 - Side Hole Radius: R1.6
 - Distance from Top Edge to Center of Top Hole: 3.2
 - Distance from Bottom Edge to Center of Top Hole: 4.3
 - Distance from Side Edge to Center of Top Hole: 3.2
 - Distance from Side Edge to Bottom Edge: 3.2
 - Distance from Side Edge to Top Edge: 1.8
 - Distance from Side Edge to Bottom Edge: 11
 - Distance from Side Edge to Top Edge: 17.6
- Side View:
 - Vertical Leg Thickness: 0.4
 - Horizontal Base Thickness: 2.8
 - Horizontal Base Height: 3.5

Technical drawing of a stainless steel bracket (SUS304). The drawing includes an isometric view and two orthographic views (front and side) with dimensions in millimeters.

Material: Stainless steel (SUS304)

Dimensions (mm):

- Isometric View:**
 - Top flange width: 43.8
 - Top flange thickness: 4.2
 - Vertical distance between top flange and middle section: 4.2
 - Vertical distance between middle section and bottom flange: 9.2
 - Bottom flange width: 43.8
 - Bottom flange thickness: 4.2
- Front View:**
 - Top flange width: 43.8
 - Top flange thickness: 4.2
 - Vertical distance between top flange and middle section: 4.2
 - Vertical distance between middle section and bottom flange: 9.2
 - Bottom flange width: 43.8
 - Bottom flange thickness: 4.2
- Side View:**
 - Top flange width: 19
 - Top flange thickness: 4.2
 - Vertical distance between top flange and middle section: 4.2
 - Vertical distance between middle section and bottom flange: 9.2
 - Bottom flange width: 19
 - Bottom flange thickness: 4.2

Material: Stainless steel (SUS304)

The drawing includes an isometric view of the bracket and two orthographic views (front and side) with the following dimensions:

- Isometric View:** Shows the bracket's L-shape with four mounting holes.
- Front View (Top Right):**
 - Top flange width: 20
 - Top flange thickness: 2.6
 - Overall height: 32.2
 - Distance from top flange to mounting holes: 4.2
 - Distance between mounting holes: 31
 - Overall width: 43.8
 - Distance from side flange to mounting holes: 12.9
 - Side flange thickness: 1.5
- Side View (Bottom Right):**
 - Overall height: 39
 - Distance from top flange to mounting holes: 9.2
 - Distance between mounting holes: 31
 - Distance from side flange to mounting holes: 4.2
 - Side flange thickness: 1.5
 - Bottom flange thickness: 12

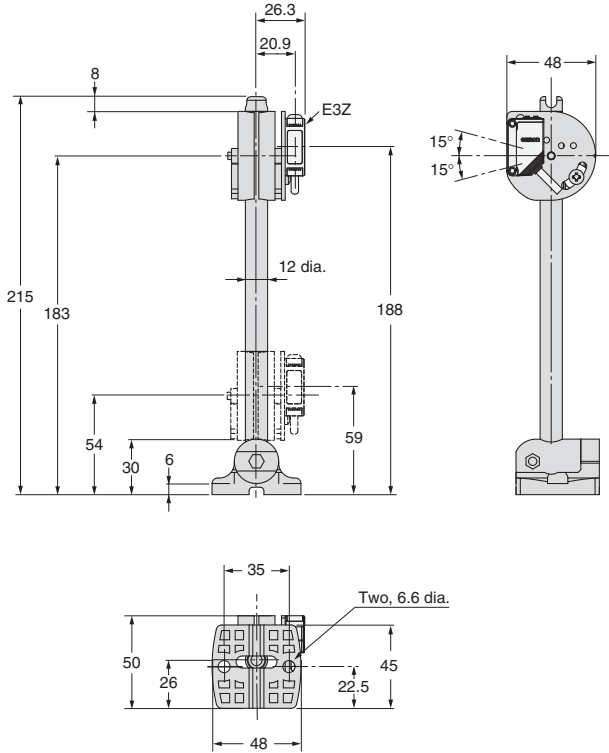
Technical drawing of a stainless steel (SUS304) L-bracket. The drawing includes three views: a perspective view, a side view, and a front view.

Material: Stainless steel (SUS304)

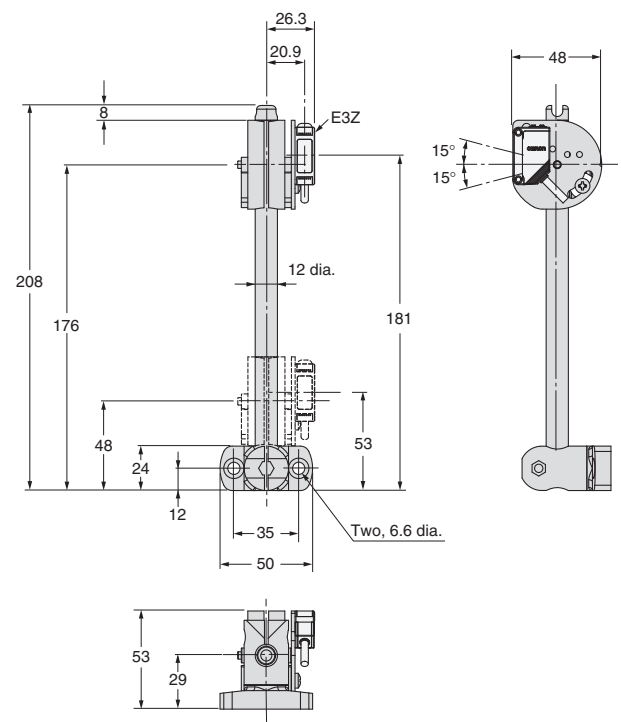
Dimensions (mm):

- Perspective View:** Shows the L-shape with a vertical leg and a horizontal leg. The vertical leg has three mounting holes. The horizontal leg has one mounting hole.
- Side View:** Shows the profile of the L-bracket. The vertical leg has a thickness of 1.5 mm. The horizontal leg has a thickness of 2.6 mm. The corner radius is 15 mm.
- Front View:** Shows the mounting holes. The vertical leg has a total height of 75.6 mm. The horizontal leg has a total width of 43.7 mm. The mounting holes are spaced 25.4 mm apart. The vertical leg has a top hole with a diameter of 6.2 mm and a bottom hole with a diameter of 4.2 mm. The horizontal leg has a hole with a diameter of 4.2 mm. The mounting holes are positioned 12.4 mm from the top and bottom edges of the vertical leg and 6.2 mm from the left and right edges of the horizontal leg. The corner radius is 15 mm.

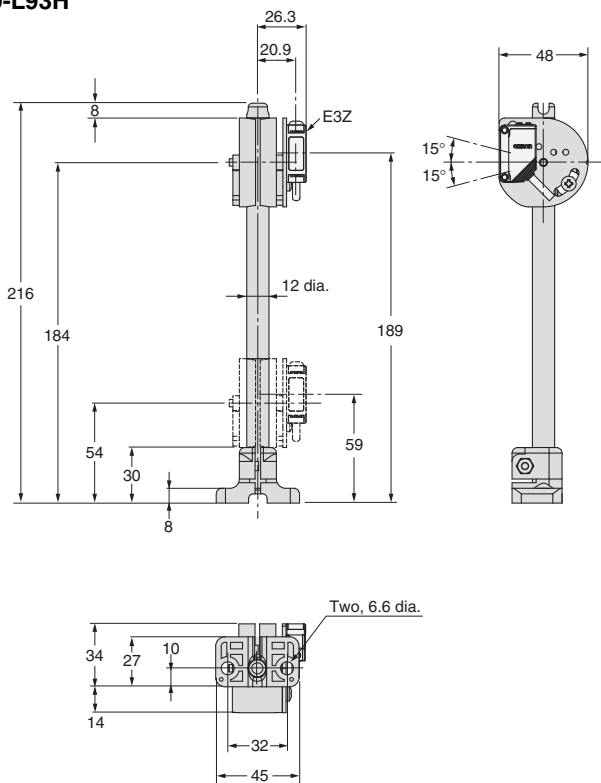
E39-L93FH



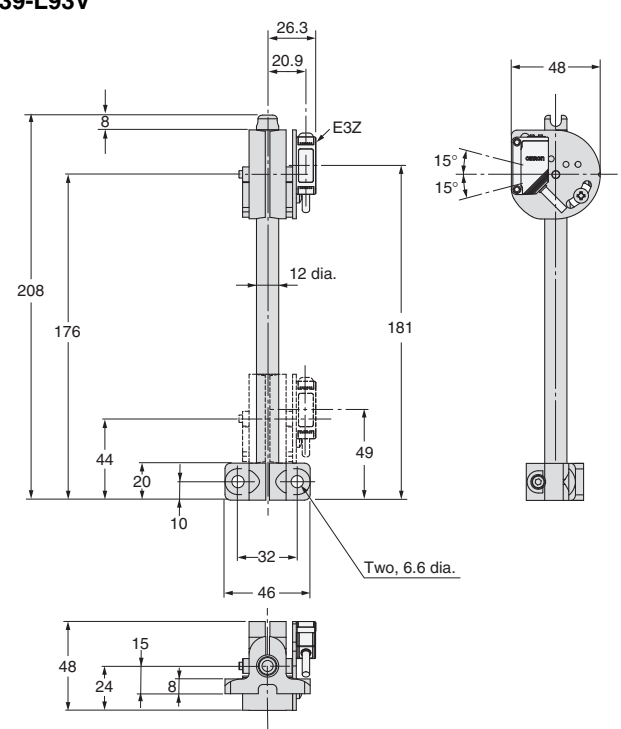
E39-L93FV



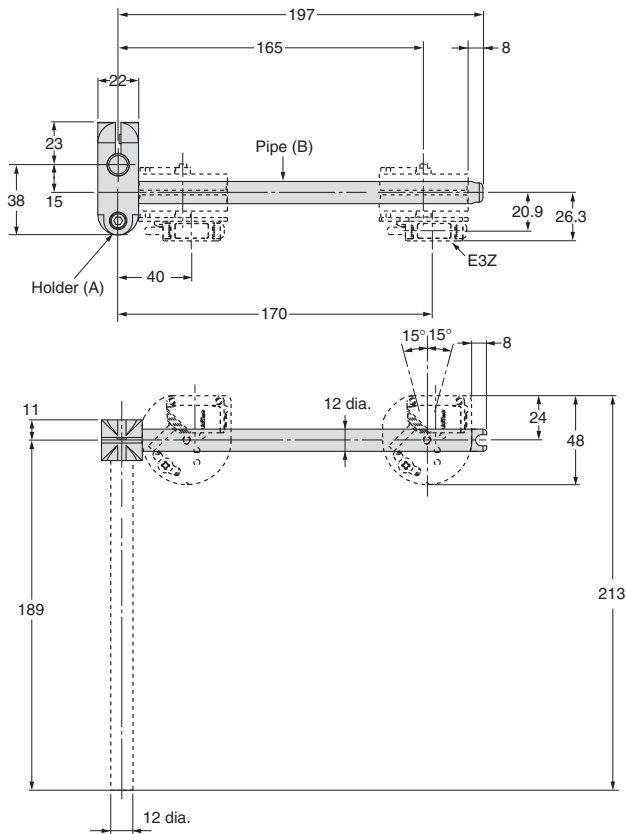
E39-L93H



E39-L93V

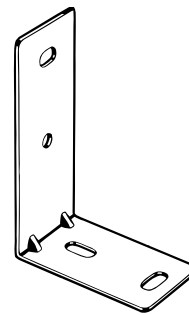


E39-L93XY

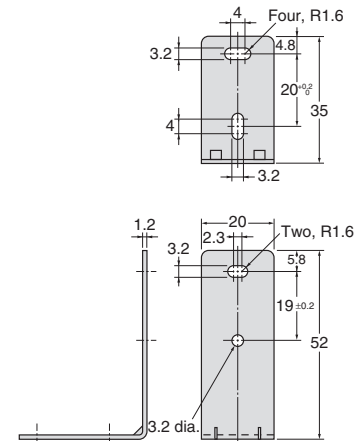


Note: The E39-L93XY consists of only the one joint holder (A) and pipe, and the two hexagonal bolts and nuts. It cannot be mounted to the Sensor alone.

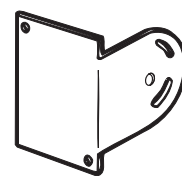
E39-L94



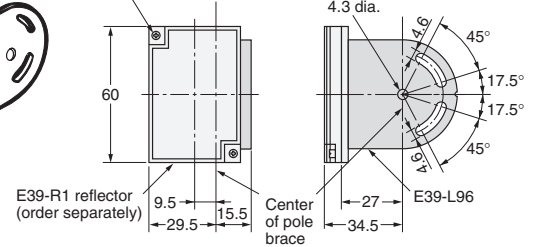
Material: Iron



E39-L96



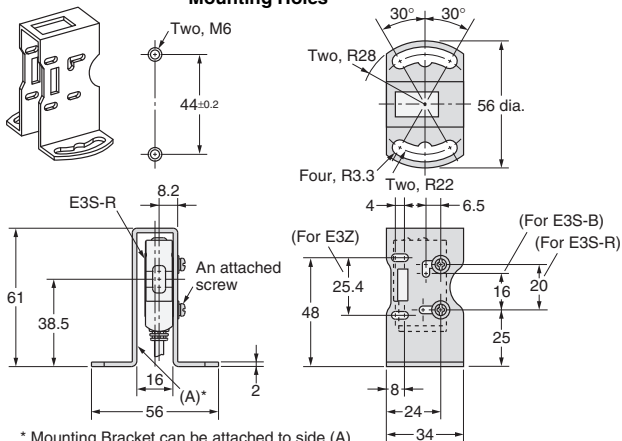
Two, M3 Tap processing



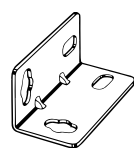
Material: Stainless steel (SUS304)
2-mm-thick

E39-L98

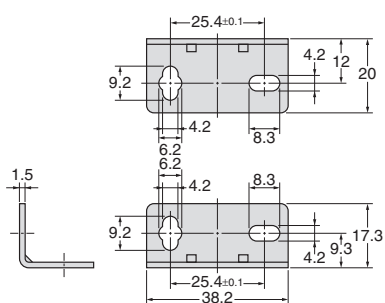
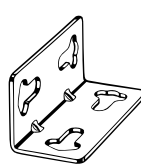
Mounting Holes



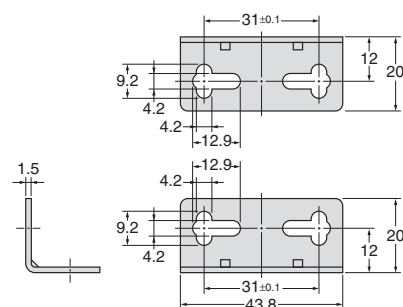
* Mounting Bracket can be attached to side (A)
Material: Stainless steel (SUS304)

E39-L102

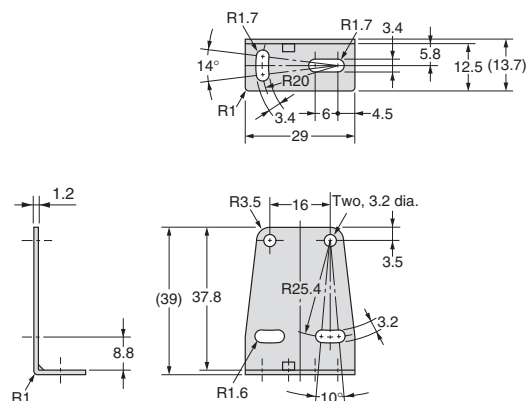
Material:
Stainless steel (SUS304)

**E39-L103**

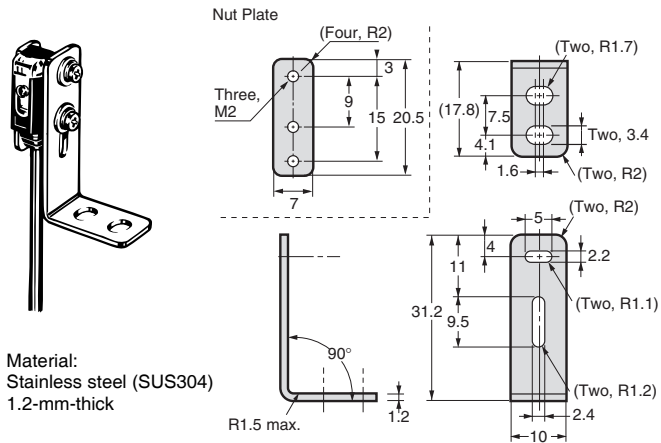
Material:
Stainless steel (SUS304)

**E39-L104**

Material:
Stainless steel
(SUS304)

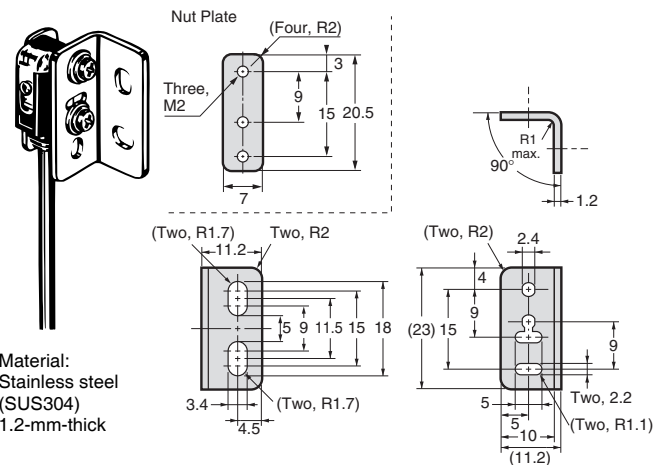


E39-L116



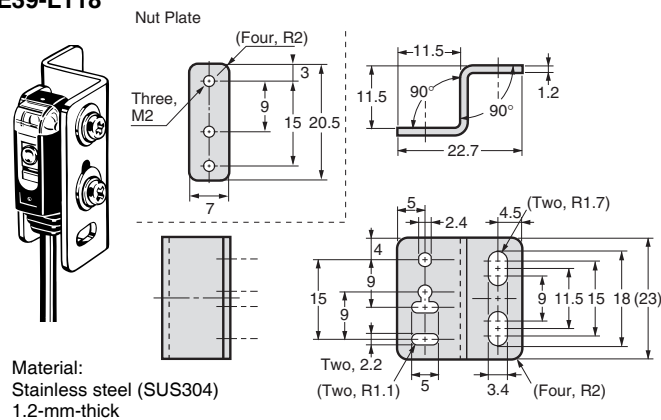
Material:
Stainless steel (SUS304)
1.2-mm-thick

E39-L117



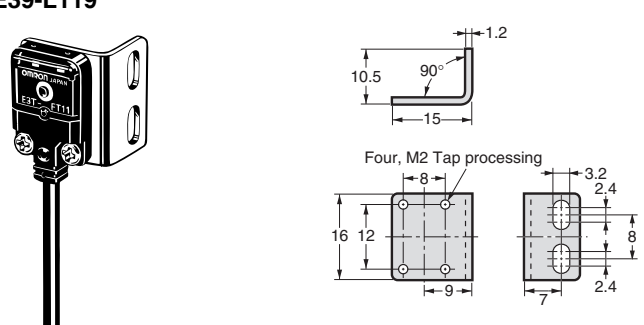
Material:
Stainless steel (SUS304)
1.2-mm-thick

E39-L118



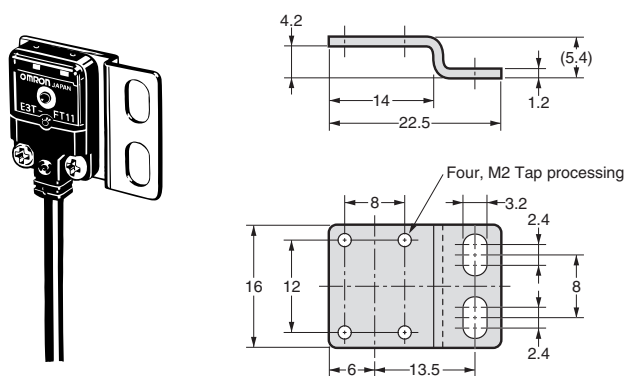
Material:
Stainless steel (SUS304)
1.2-mm-thick

E39-L119



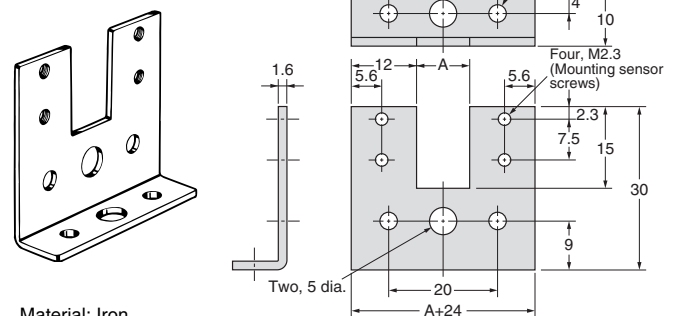
Material:
Stainless steel (SUS304)
1.2-mm-thick

E39-L120



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

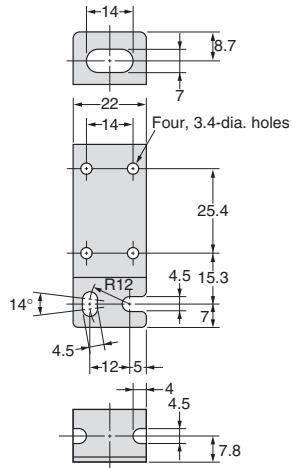
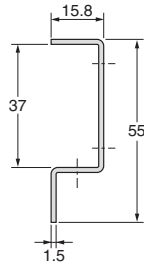
E39-L127-T1 E39-L127-T2 E39-L127-T3



Material: Iron

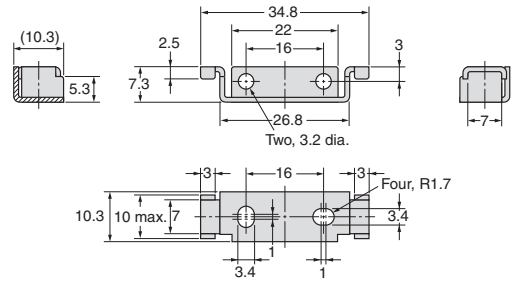
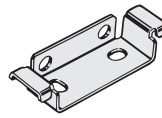
Model	Dimension A (mm)
E39-L127-T1	10
E39-L127-T2	20
E39-L127-T3	30

E39-L142



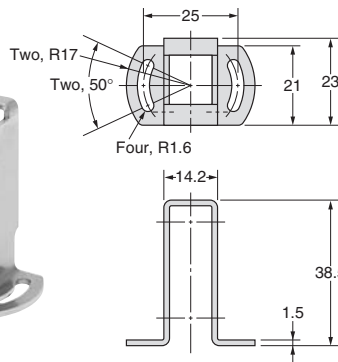
Material: Stainless steel (SUS304)

E39-L143



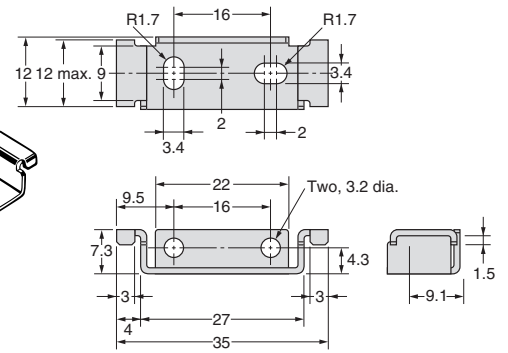
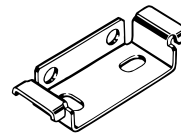
Material: Stainless steel (SUS304)

E39-L144



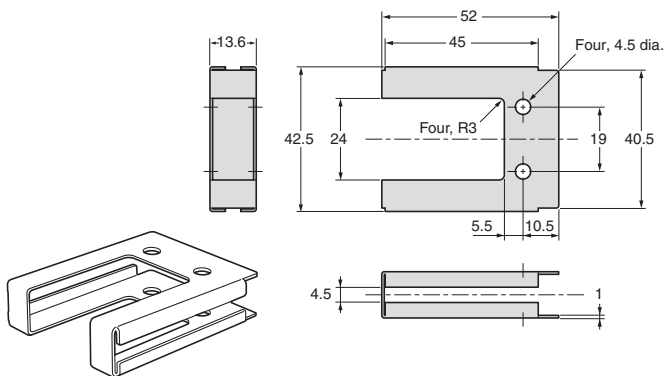
Material: Stainless steel (SUS304)

E39-L148



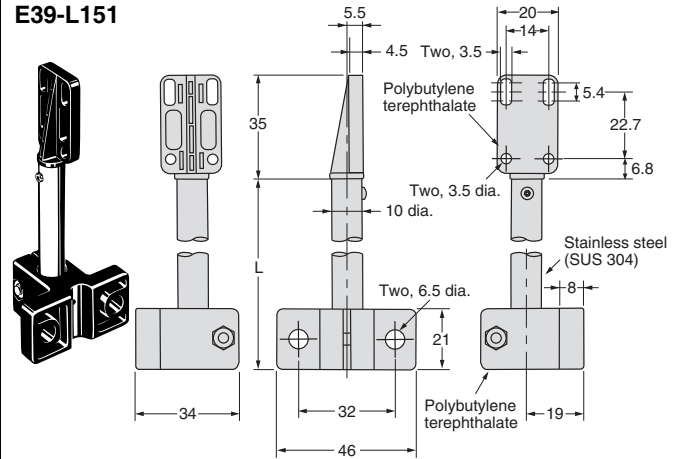
Material: Stainless steel (SUS304)

E39-L149



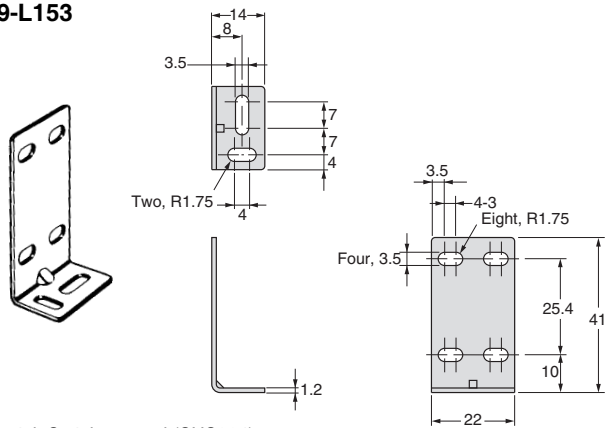
Material: Iron

E39-L150
E39-L151



Length (mm)	
Model	L
E39-L150	65
E39-L151	165

E39-L153

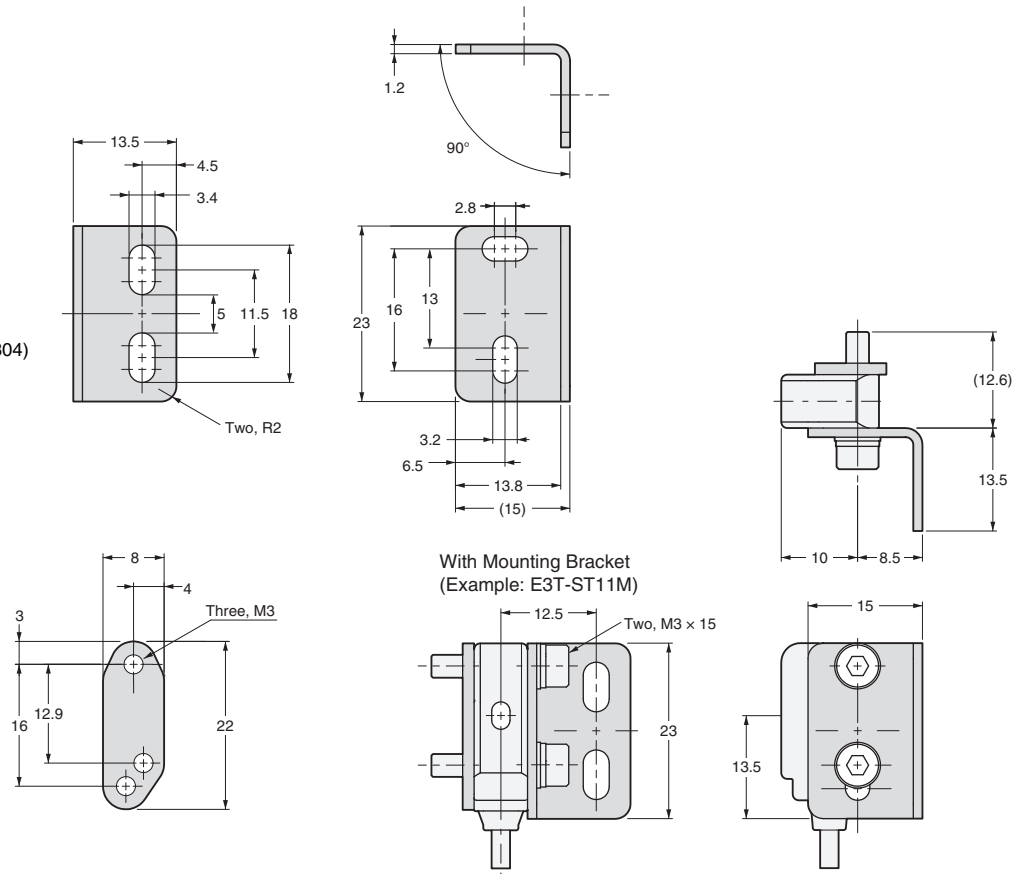


Material: Stainless steel (SUS304)

E39-L166



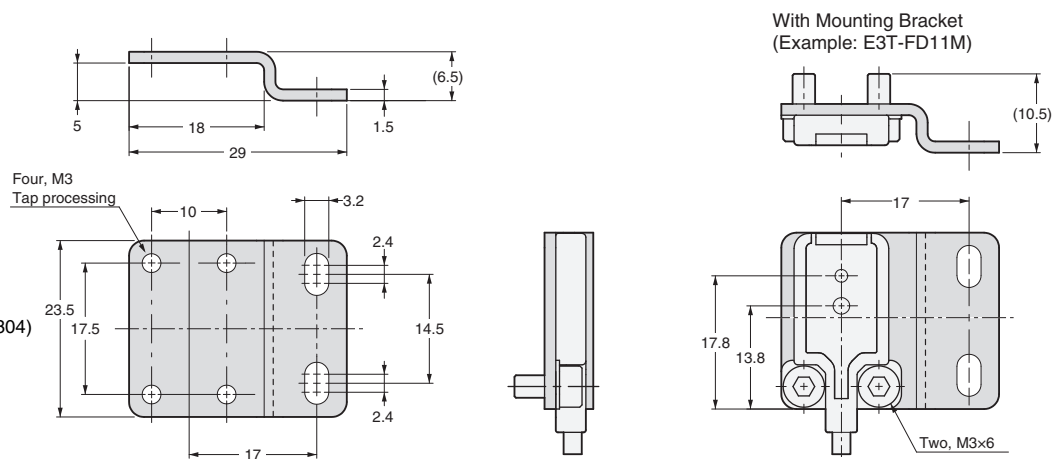
Material: Stainless steel (SUS304)
1.2-mm-thick



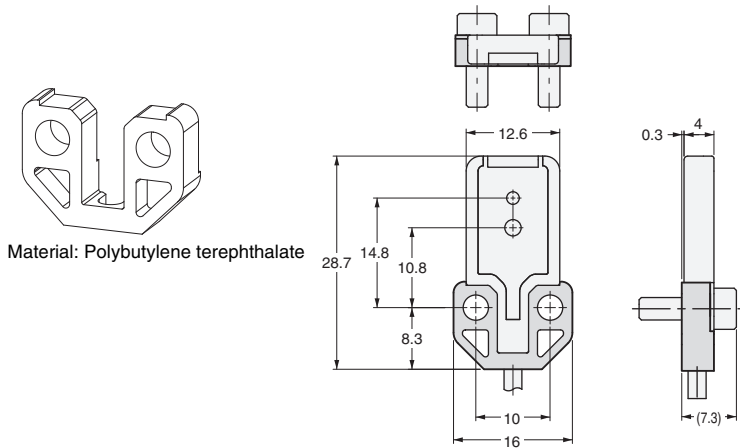
E39-L167



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

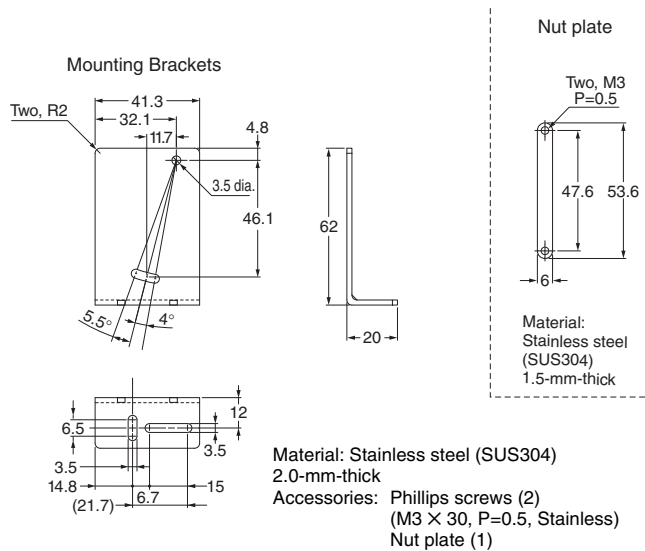


E39-L168

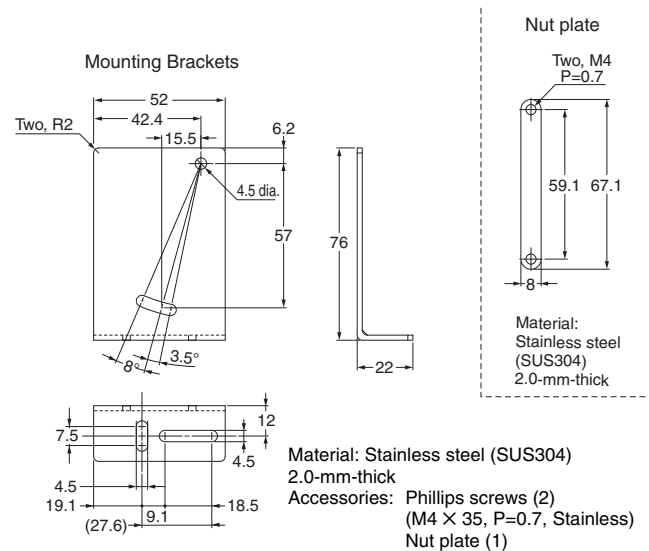


Note: Use this Spacer when mounting the Sensor from the back.

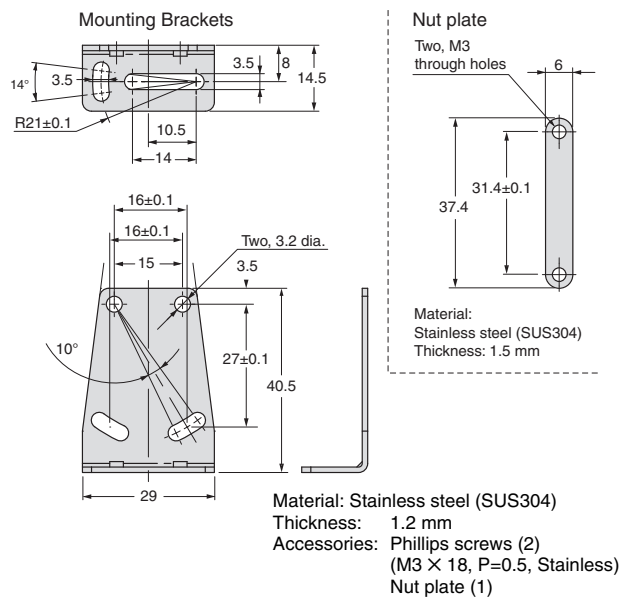
E39-L180



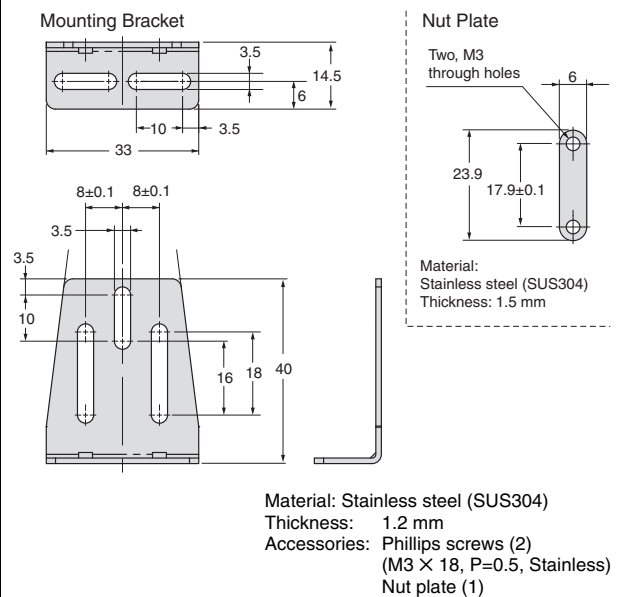
E39-L181



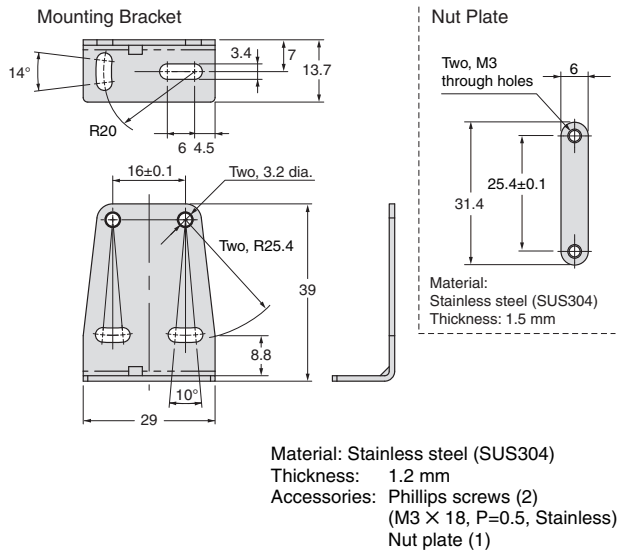
E39-L185



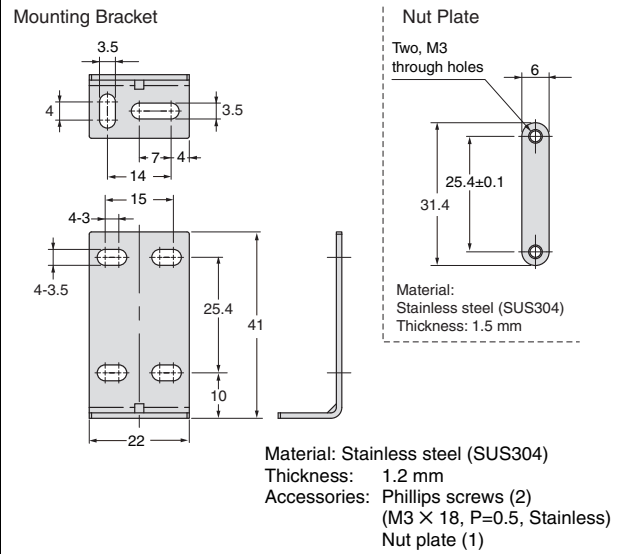
E39-L186



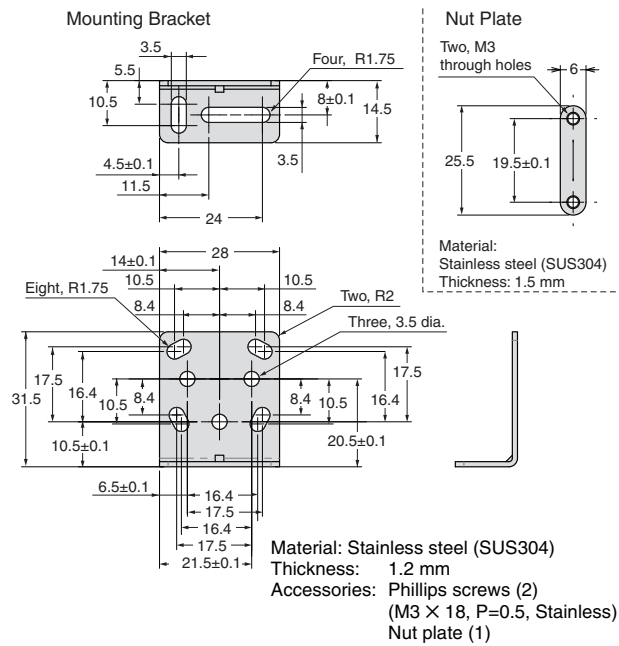
E39-L187



E39-L188



E39-L190

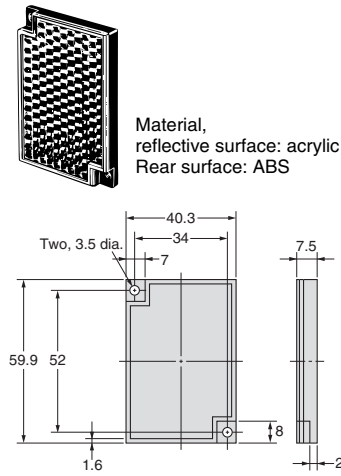


Reflector dimensions

(Unit: mm)

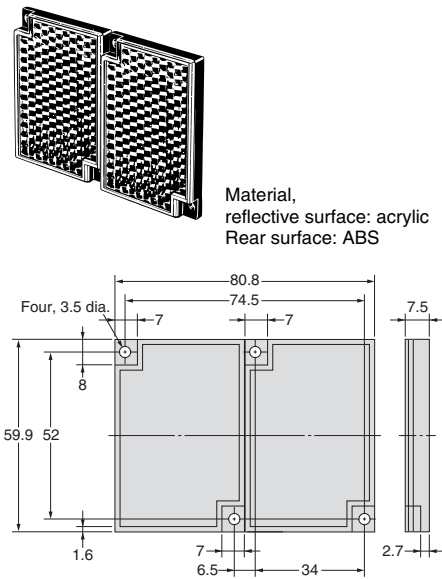
Tolerance class IT16 applies to dimensions in this datasheet unless otherwise specified.

E39-R1 E39-R1S E39-R1K *

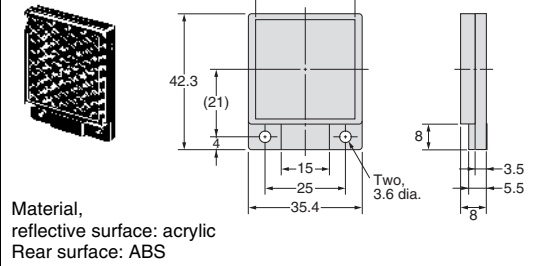


* E39-R1K only
Coating on reflective surface

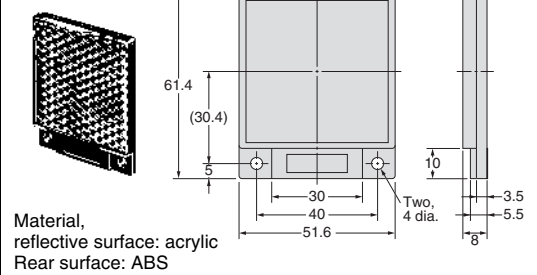
E39-R2



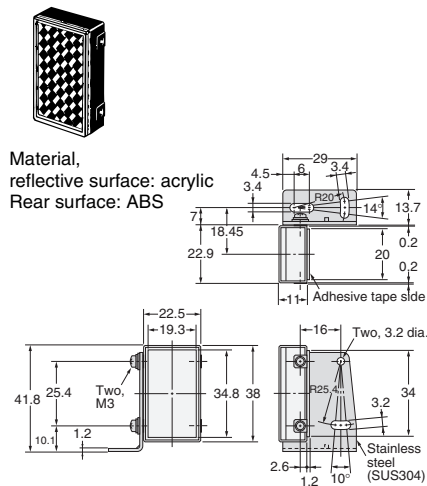
E39-R9



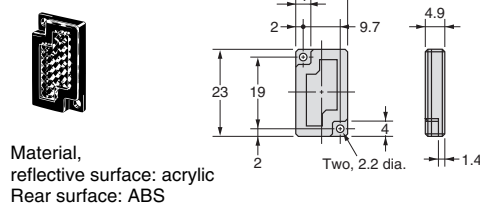
E39-R10



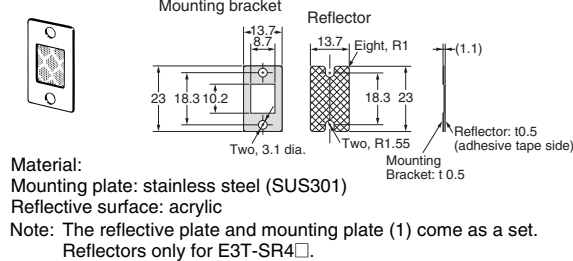
E39-R3



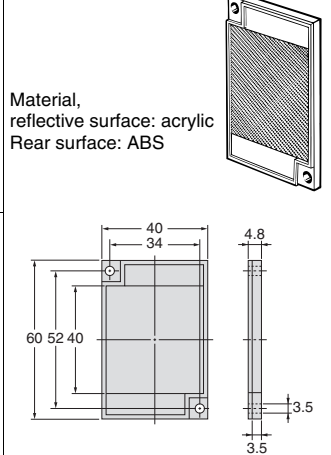
E39-R4



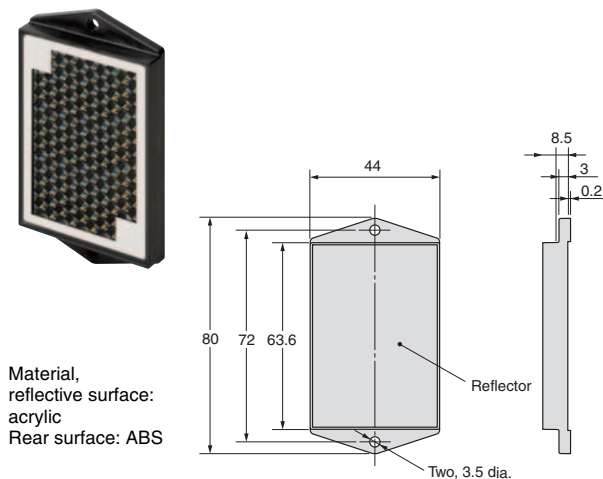
E39-R37-CA



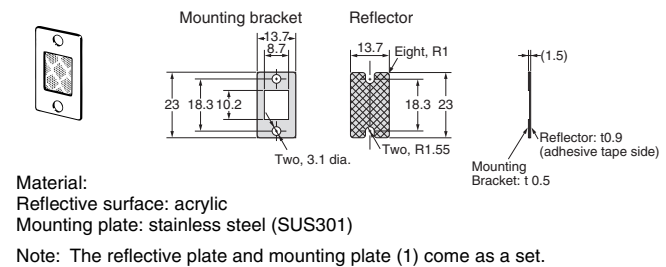
E39-R6



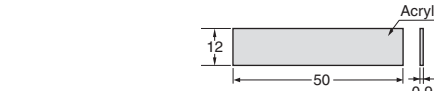
Retroreflector for E3ZM-B E39-RP1



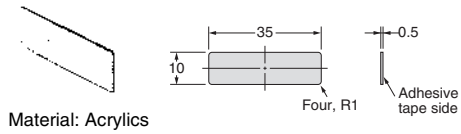
Retroreflector for E3ZM-B E39-RP37



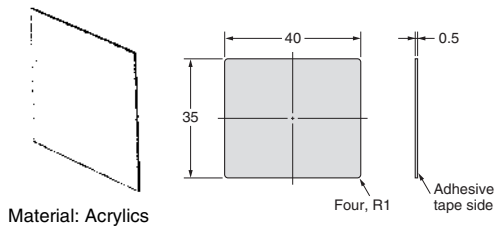
Retroreflector for E3ZM-B E39-RSP1



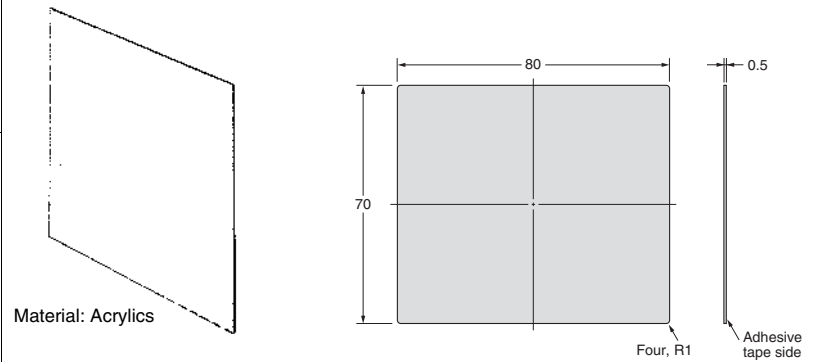
E39-RS1
E39-RS1-CA *1



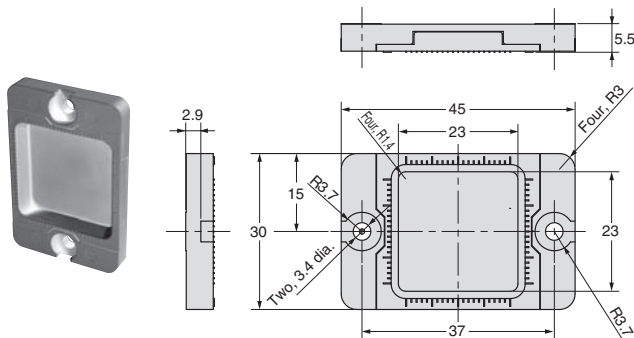
E39-RS2
E39-RS2-CA *1



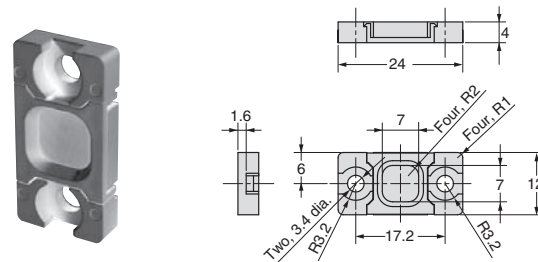
E39-RS3
E39-RS3-CA *1



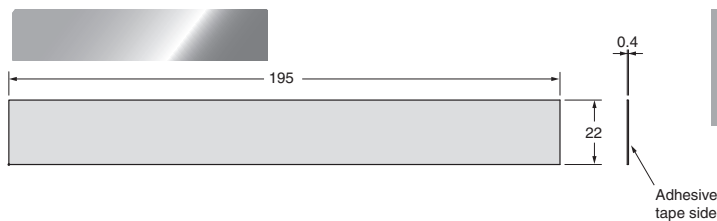
E39-R12/R14 *2



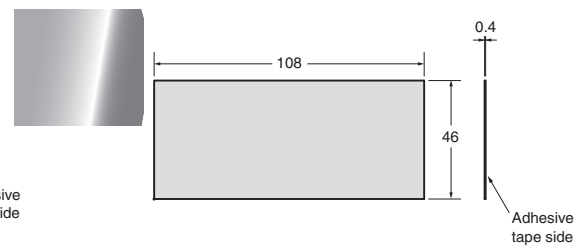
E39-R13 *2



E39-RS4 *2



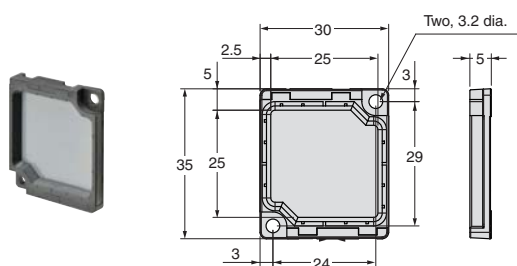
E39-RS5 *2



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

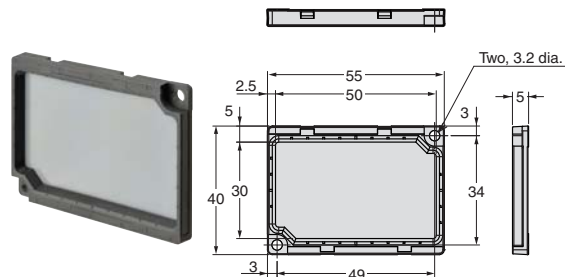
*2. These Reflectors are for E3C-LDA-series Sensors. However, the E39-R12 can also be used with an E3Z-LR□ Retroreflective Laser Sensor.

E39-R21 *3



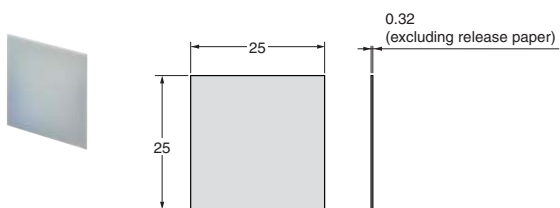
Material, reflective surface: methacrylic resin (PMMA)
Rear surface: Polybutylene terephthalate (PBT)

E39-R22 *3



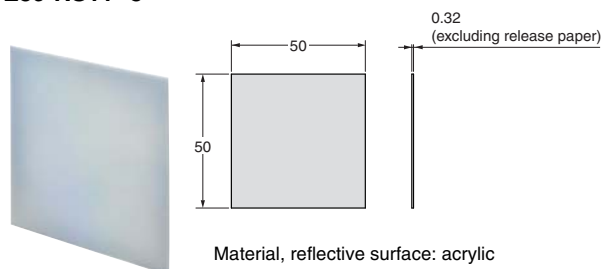
Material, reflective surface: methacrylic resin (PMMA)
Rear surface: Polybutylene terephthalate (PBT)

E39-RS10 *3



Material, reflective surface: acrylic

E39-RS11 *3



Material, reflective surface: acrylic

*3. Models only for E3NC-LH03

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