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Mounting Brackets
E39-L
Slits/Reflectors
E39-S/E39-R

CSM_E39-L/E39-S/E39-R_DS_E_19_10

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

Model	Fitting materials	Count	Accessories			Applicable sensor (mounting pitch on sensor side)	Page
			Description	Material	Count		Dimensions
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) Nuts M4	Iron, zinc plating Iron, zinc plating	2 2	E3JK	
E39-L41	Iron, zinc plating	2	Phillips screws M3 × 14 (with spring washers) Plain washer M3	Iron, zinc plating Iron, zinc plating	4 4	E3C-1 (10)	
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)	
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)	7
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 Iron, nickel plating	2 2	E3JM (40)	
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	8
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.

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Model	Fitting materials	Count	Accessories			Applicable sensor (mounting pitch on sensor side)	Page
			Description	Material	Count		Dimensions
E39-L93FH	Stainless steel (SUS304)	1	Holder (upper) Holder (lower) Pipe	Heat-resistant ABS resin 66 nylon Stainless steel (SUS304)	1 1 1	E3Z (25.4) E39-R1/E39-R3	9
E39-L93FV	Stainless steel (SUS304)	1	Bolts M4 × 12 with Hexagonal holes	Iron, nickel plating	2		
E39-L93H	Stainless steel (SUS304)	1	Bolts M4 × 30 with hexagonal holes Phillips screws M3 × 12 (with spring and plain washers)	Iron, nickel plating Stainless steel (SUS304)	1 2		
E39-L93V	Stainless steel (SUS304)	1	Spring washer M4 Plain washer M4 Nuts M4	Iron, nickel plating Iron, nickel plating Iron, nickel plating	1 1 3		
E39-L93XY	---	---	Holder Pipe Bolts M5 × 16 with hexagonal holes Nuts M5	66 nylon Stainless steel (SUS304) Stainless steel (SUS304) Stainless steel (SUS304)	1 1 2 2	E3Z (25.4) E39-R1/E39-R3	10
E39-L94	Iron, zinc plating	2	Phillips screws M3 × 10 Nuts M3	Iron, zinc plating Iron, zinc plating	4 4	E32-T16P (19) E32-T16PR (19)	
E39-L96 * 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)	11
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)	
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)	
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 Spring washer M2.3	Iron, zinc plating Iron, zinc plating	4 4	E3C-S10 (7.5)	
E39-L127-T2	Iron, zinc plating	1	Phillips screws M2.3 × 8 Spring washer M2.3	Iron, zinc plating Iron, zinc plating	4 4		
E39-L127-T3	Iron, zinc plating	1	Phillips screws M2.3 × 8 Spring washer M2.3	Iron, zinc plating Iron, zinc plating	4 4		

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

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Model	Fitting materials	Count	Accessories			Applicable sensor (mounting pitch on sensor side)	Page
			Description	Material	Count		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)	13
E39-L143	Stainless steel (SUS304)	1	None	---	---	E3X-ZV/MZV E3NX-CA E3NX-FA E3NX-MA E3NC-LA E3NC-SA E2CY-SD E9NC-TA E3X-NA E3C-LDA□N	
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 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 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	
E39-L187	Stainless steel (SUS304)	1	Phillips screw Nut plate	Stainless steel Stainless steel	2 1	E3NC-SH250H E3NC-SH250 E3NC-SH100	17
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.

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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□.

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

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Name	Laser Reflectors			
	Standard		Sheets	
Item / Model	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)			

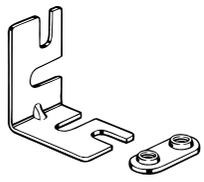
* Models only for E3NC-LH03

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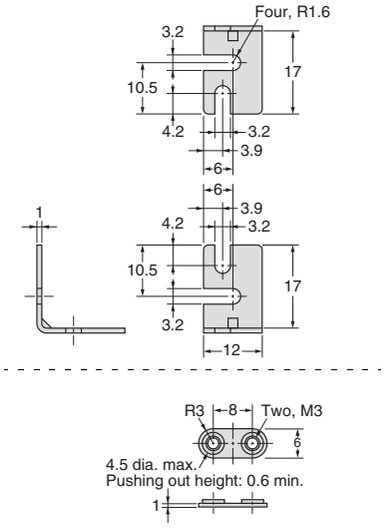
Mounting Bracket Dimensions

(Unit: mm)
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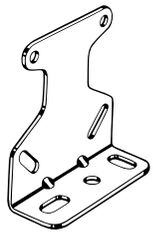
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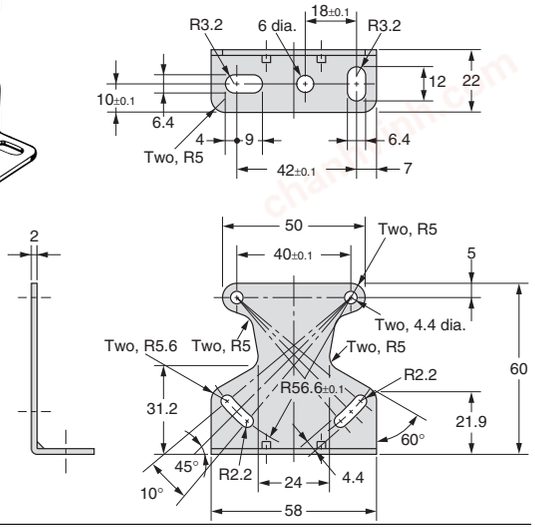
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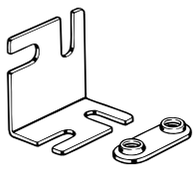
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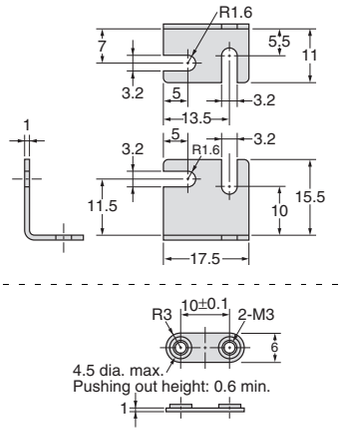
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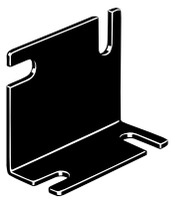
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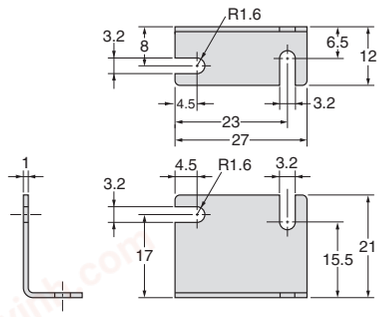
Material: Iron



E39-L42

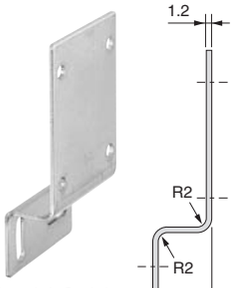


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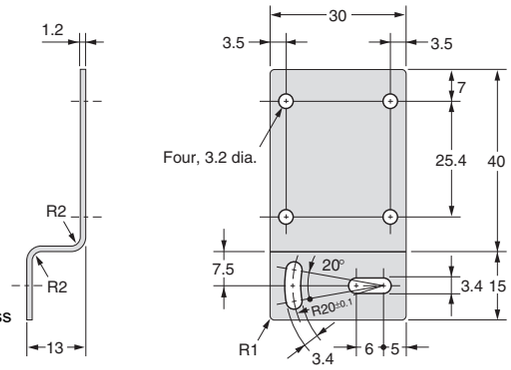


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E39-L43



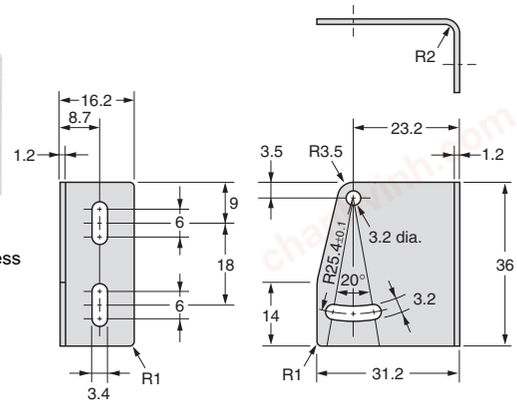
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E39-L44



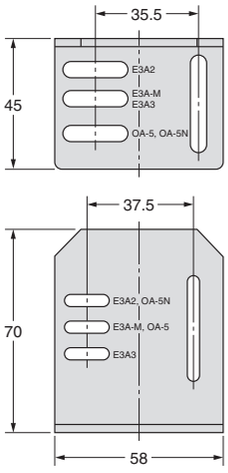
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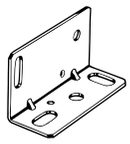
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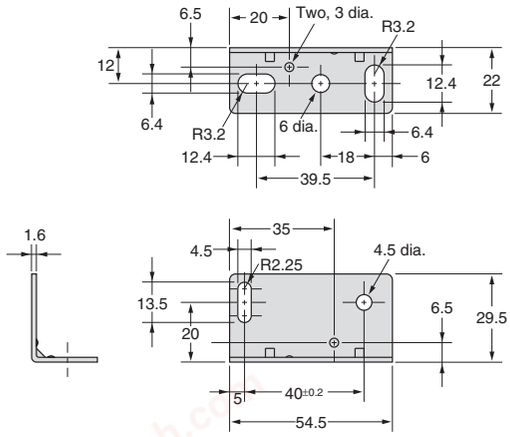
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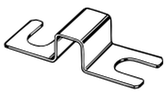
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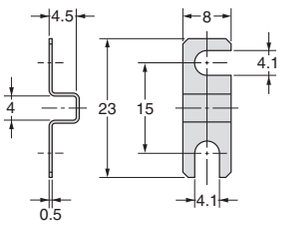
Material: Iron



E39-L54V

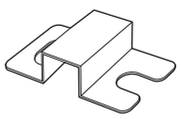


Material: Stainless steel (SUS304)

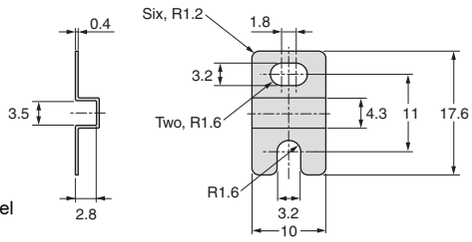


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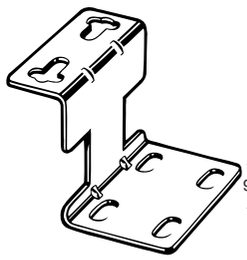
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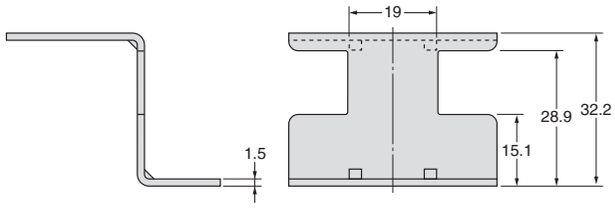
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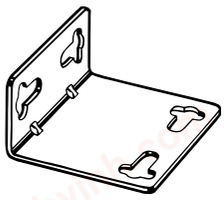
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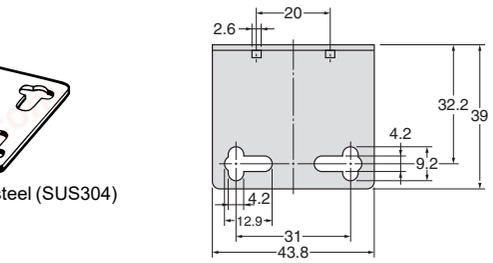
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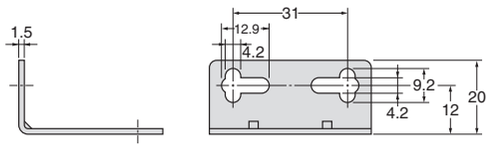


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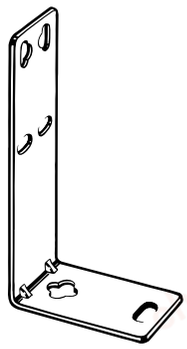


Material: Stainless steel (SUS304)

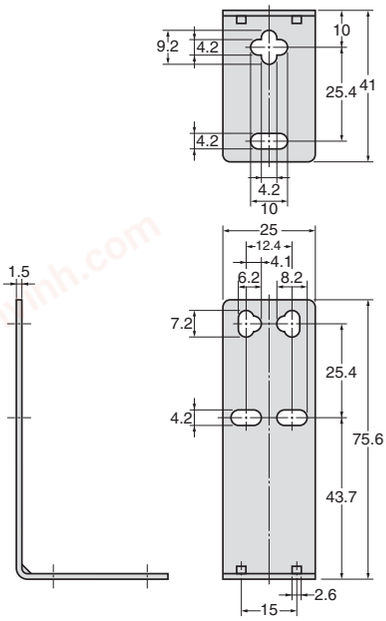




E39-L87

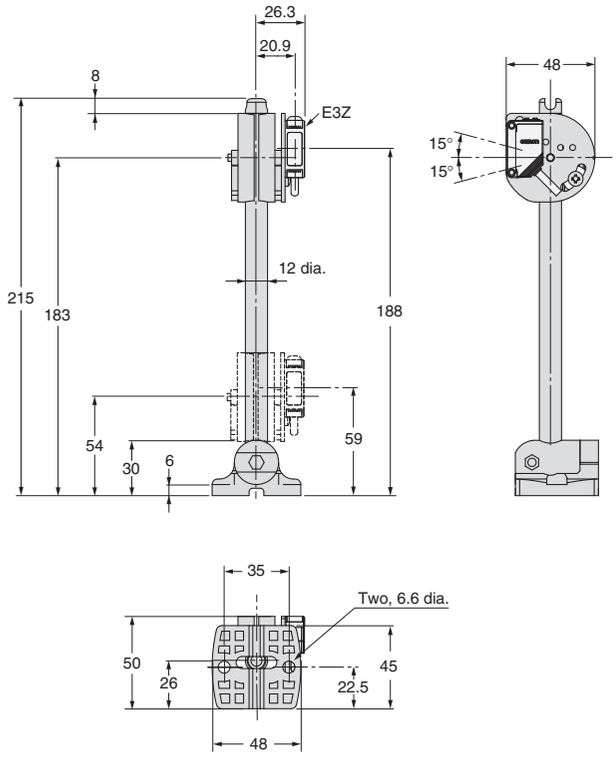


Material:
Stainless steel (SUS304)

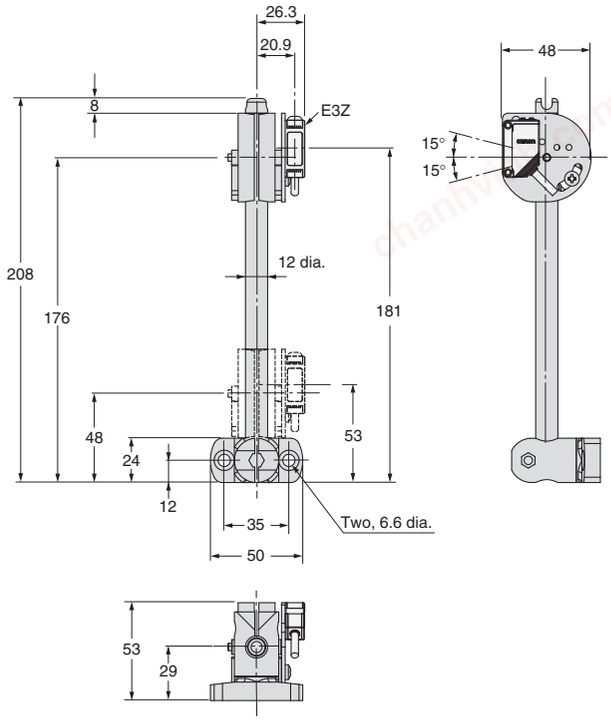


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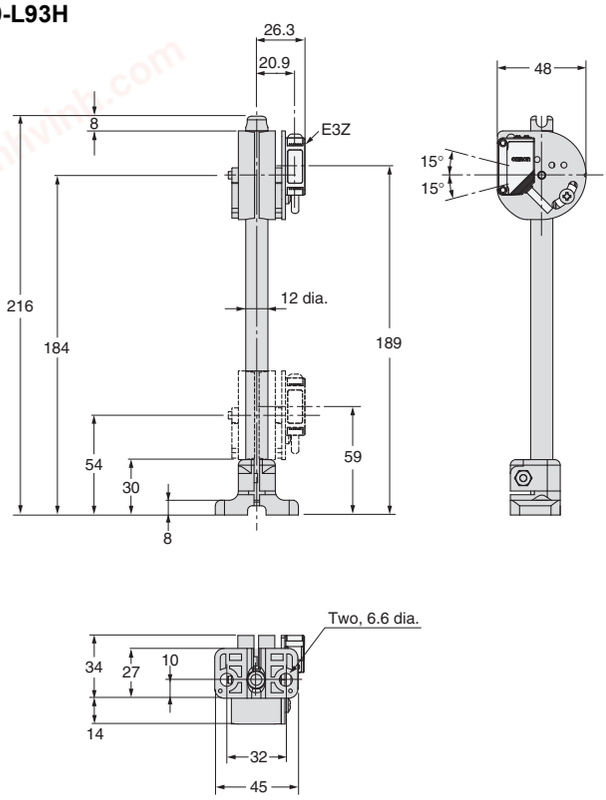
E39-L93FH



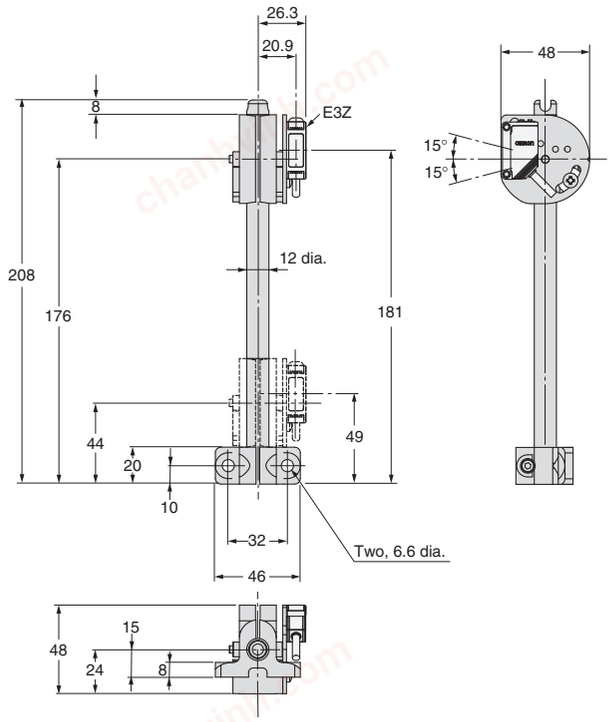
E39-L93FV



E39-L93H

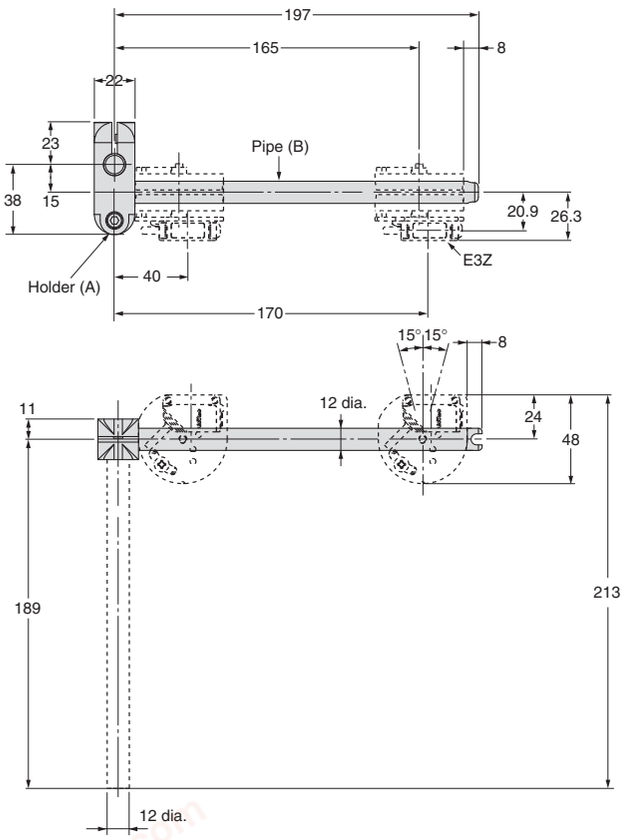


E39-L93V



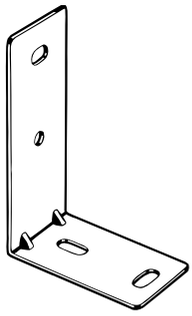
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E39-L93XY

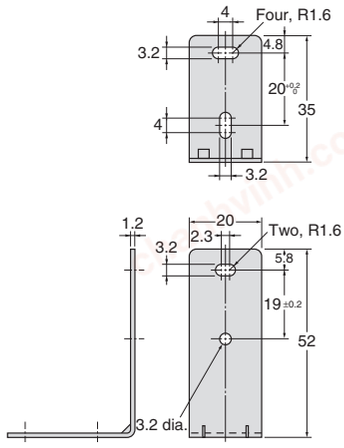


Note: The E39-L93XY consists of only the one joint holder (A) and pipe, and the two hexagonal bolts and nuts. It cannot be mounted to the Sensor alone.

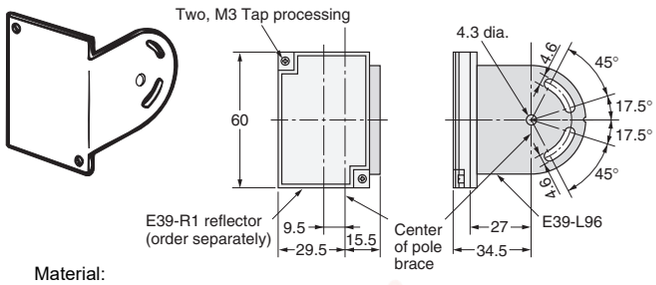
E39-L94



Material: Iron

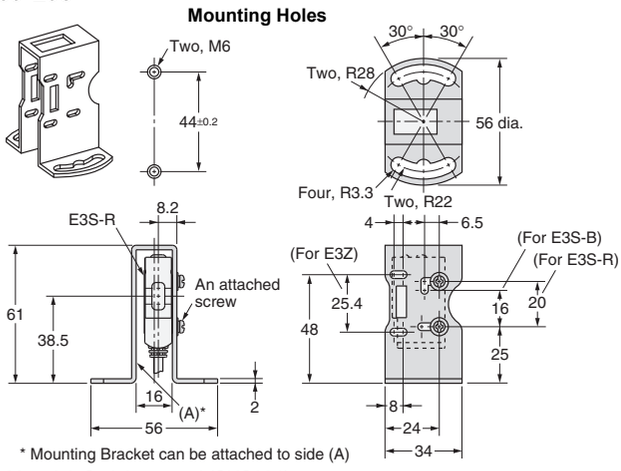


E39-L96



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

E39-L98

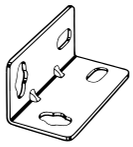


* Mounting Bracket can be attached to side (A)

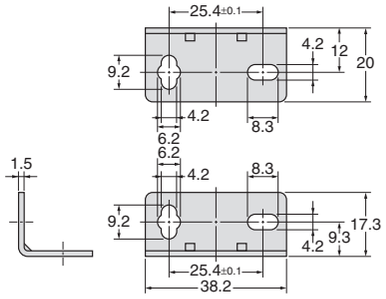
Material: Stainless steel (SUS304)

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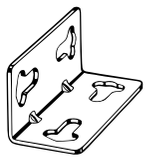
E39-L102



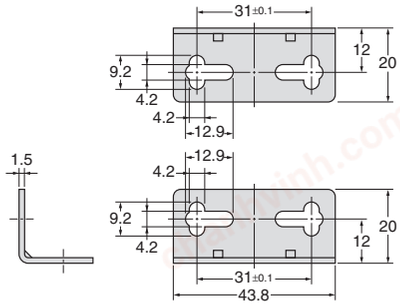
Material:
Stainless steel (SUS304)



E39-L103



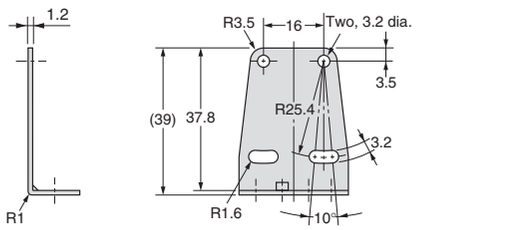
Material:
Stainless steel (SUS304)



E39-L104

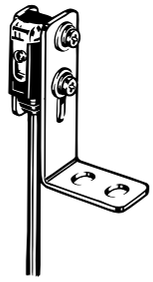


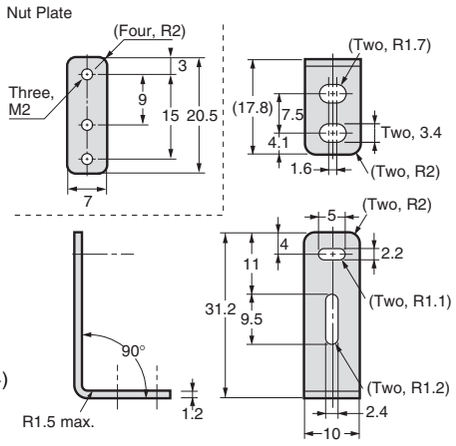
Material:
Stainless steel
(SUS304)



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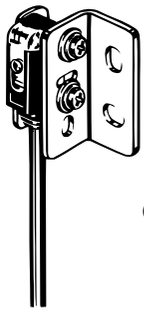
E39-L116

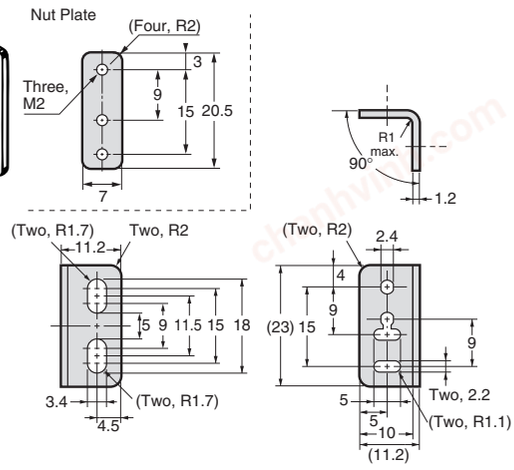




Material:
Stainless steel (SUS304)
1.2-mm-thick

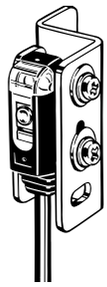
E39-L117

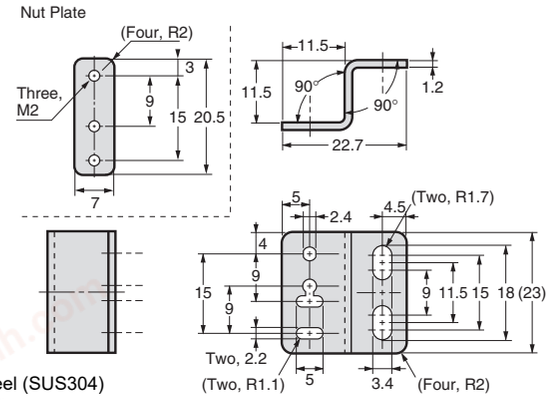




Material:
Stainless steel
(SUS304)
1.2-mm-thick

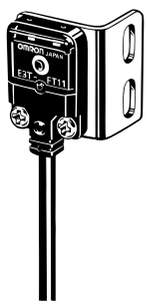
E39-L118

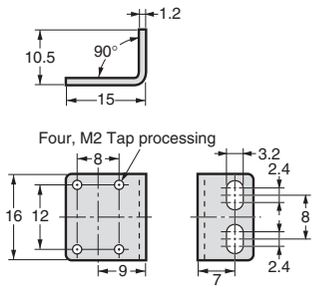




Material:
Stainless steel (SUS304)
1.2-mm-thick

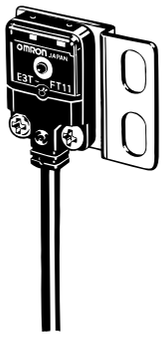
E39-L119

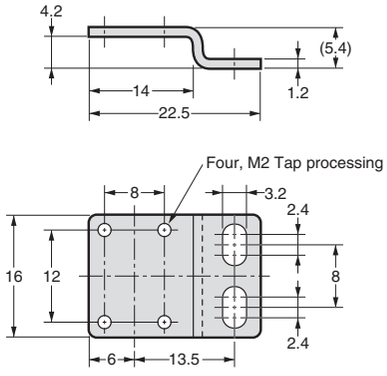




Material:
Stainless steel (SUS304)
1.2-mm-thick

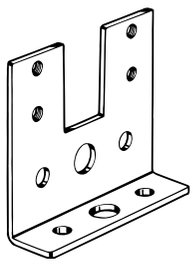
E39-L120

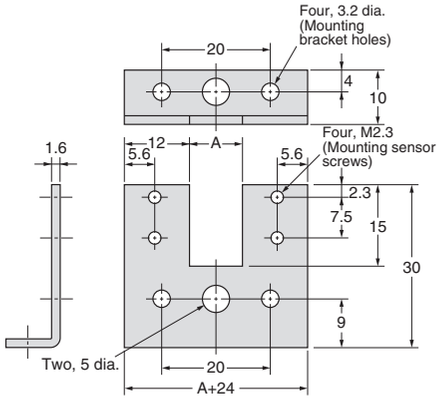




Material: Stainless steel (SUS304)
1.2-mm-thick

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





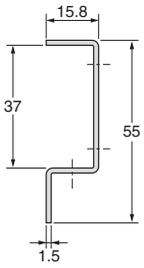
Material: Iron

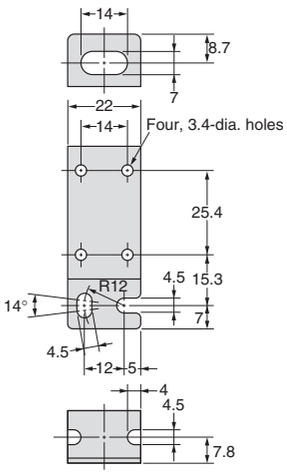
Model	Dimension A (mm)
E39-L127-T1	10
E39-L127-T2	20
E39-L127-T3	30

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E39-L142

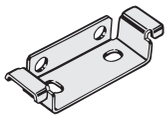


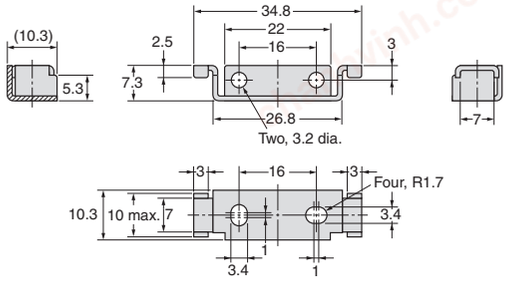




Material: Stainless steel (SUS304)

E39-L143

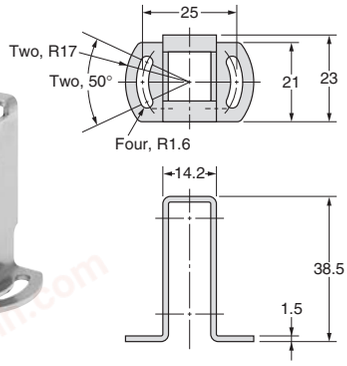


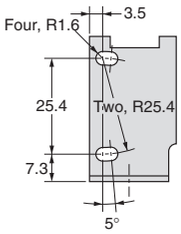


Material: Stainless steel (SUS304)

E39-L144

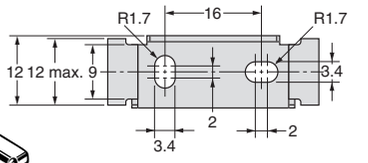


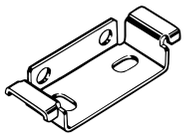


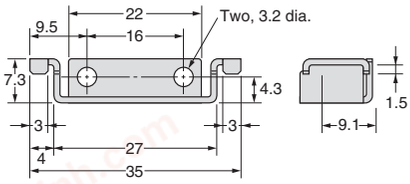


Material: Stainless steel (SUS304)

E39-L148



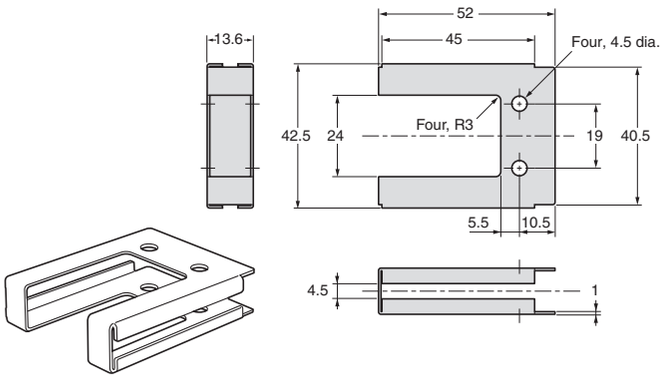




Material: Stainless steel (SUS304)

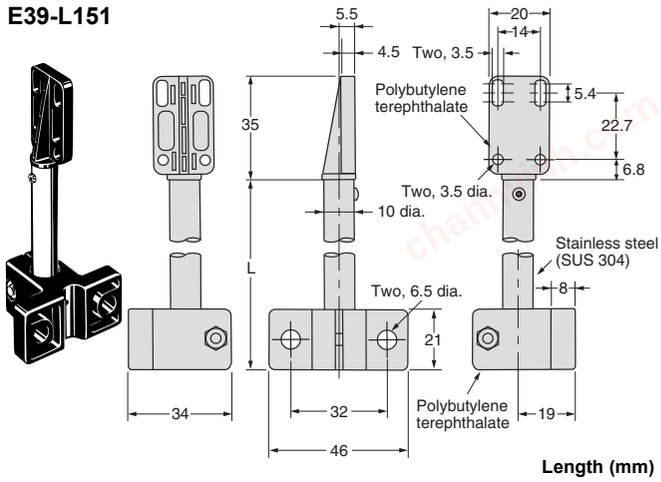
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E39-L149



Material: Iron

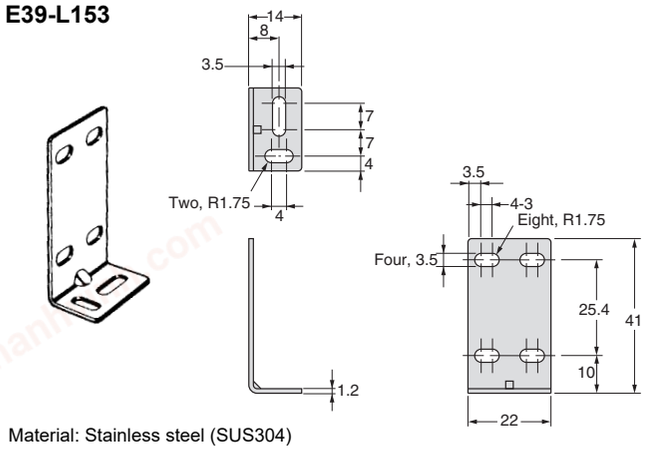
E39-L150
E39-L151



Length (mm)

Model	L
E39-L150	65
E39-L151	165

E39-L153



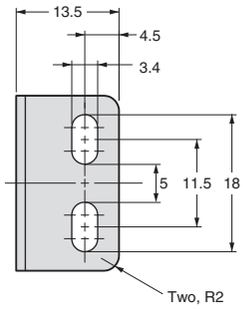
Material: Stainless steel (SUS304)

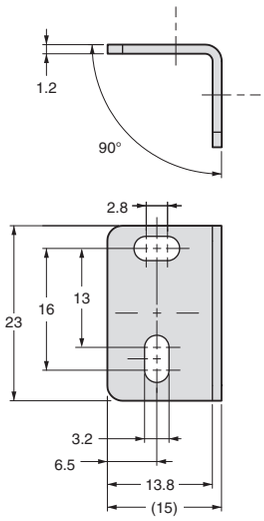
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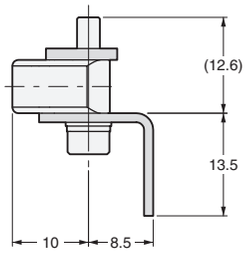
E39-L166

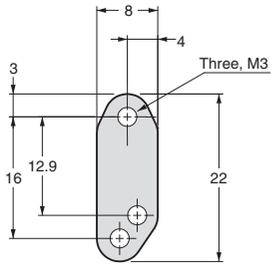


Material: Stainless steel (SUS304)
1.2-mm-thick

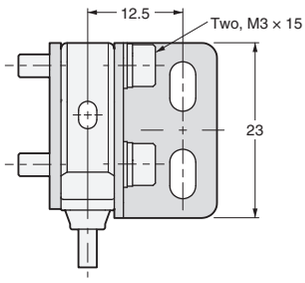


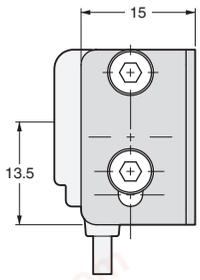






With Mounting Bracket
(Example: E3T-ST11M)

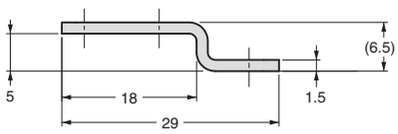


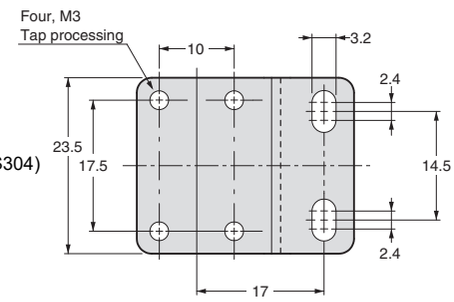


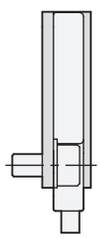
E39-L167



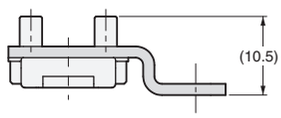
Material: Stainless steel (SUS304)
1.5-mm-thick

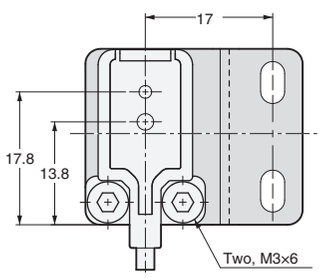






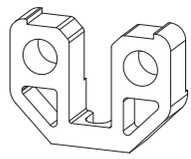
With Mounting Bracket
(Example: E3T-FD11M)



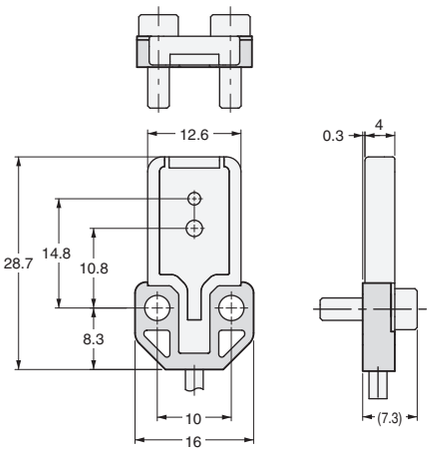


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E39-L168

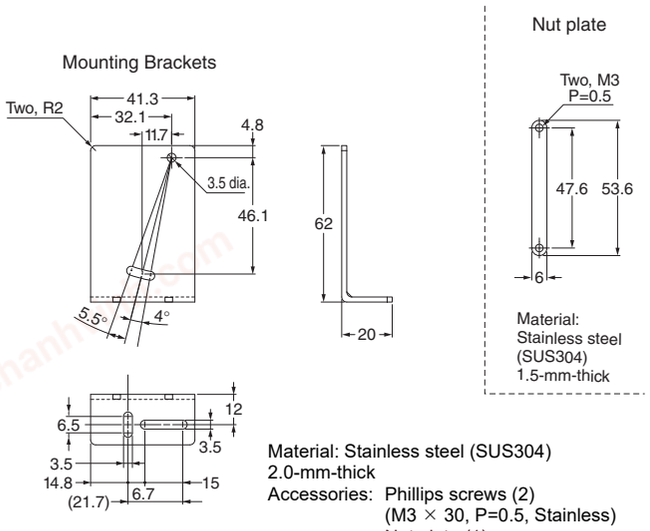


Material: Polybutylene terephthalate



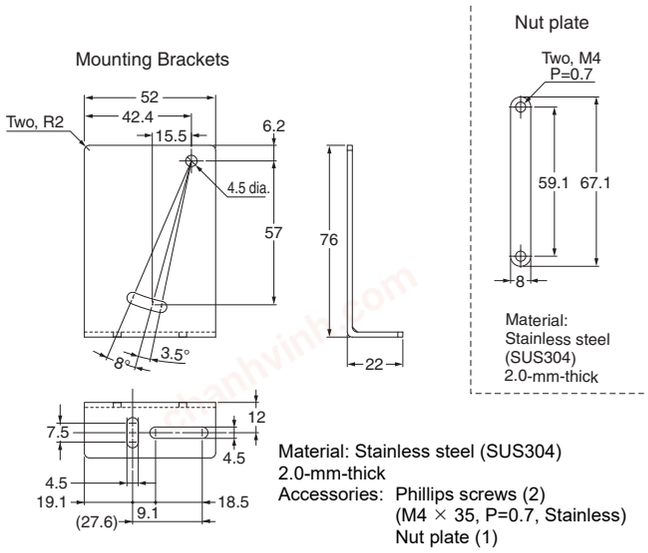
Note: Use this Spacer when mounting the Sensor from the back.

E39-L180



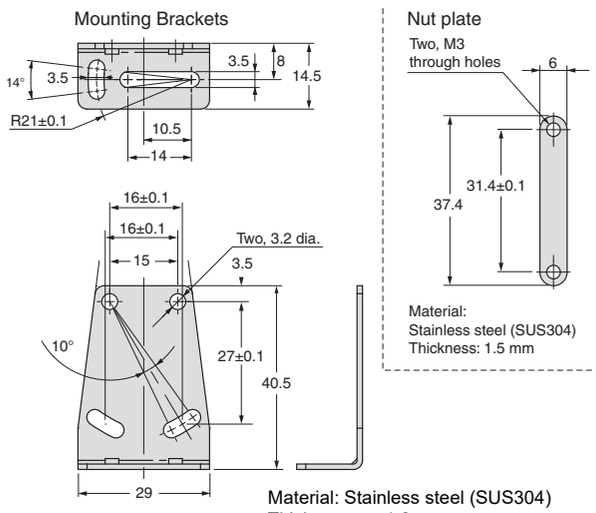
Material: Stainless steel (SUS304)
2.0-mm-thick
Accessories: Phillips screws (2)
(M3 × 30, P=0.5, Stainless)
Nut plate (1)

E39-L181



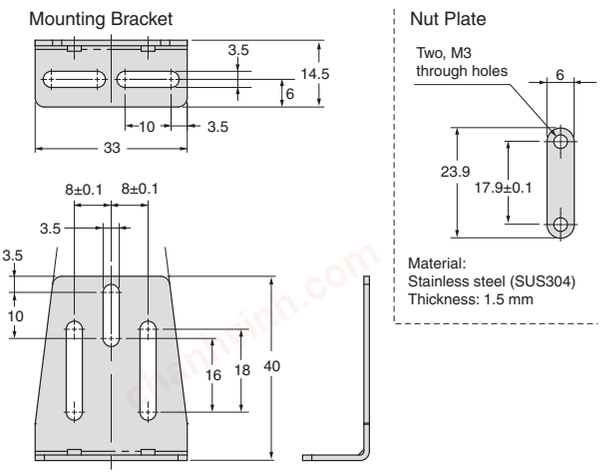
Material: Stainless steel (SUS304)
2.0-mm-thick
Accessories: Phillips screws (2)
(M4 × 35, P=0.7, Stainless)
Nut plate (1)

E39-L185



Material: Stainless steel (SUS304)
Thickness: 1.2 mm
Accessories: Phillips screws (2)
(M3 × 18, P=0.5, Stainless)
Nut plate (1)

E39-L186

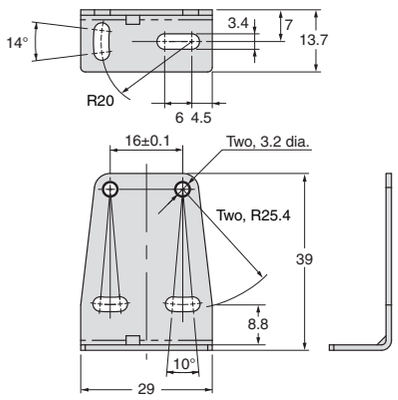


Material: Stainless steel (SUS304)
Thickness: 1.2 mm
Accessories: Phillips screws (2)
(M3 × 18, P=0.5, Stainless)
Nut plate (1)

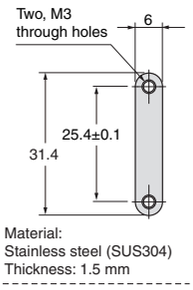
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E39-L187

Mounting Bracket



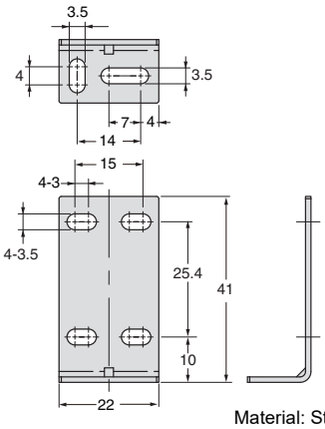
Nut Plate



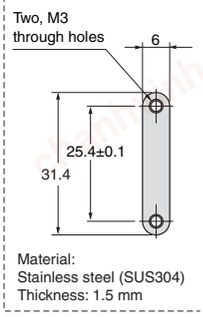
Material: Stainless steel (SUS304)
Thickness: 1.2 mm
Accessories: Phillips screws (2)
(M3 × 18, P=0.5, Stainless)
Nut plate (1)

E39-L188

Mounting Bracket



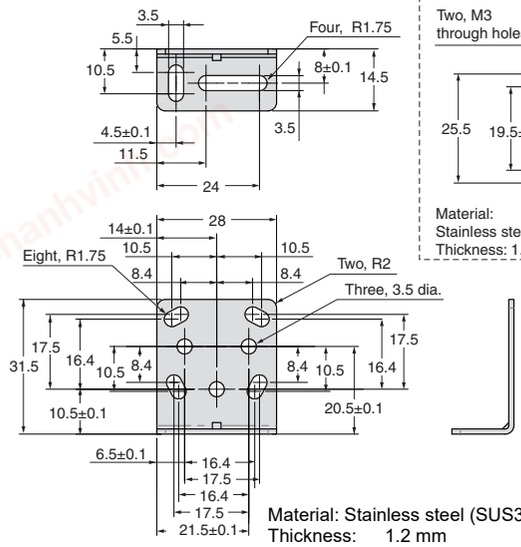
Nut Plate



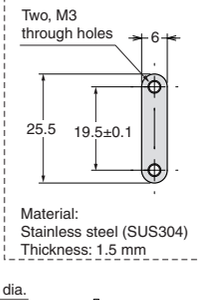
Material: Stainless steel (SUS304)
Thickness: 1.2 mm
Accessories: Phillips screws (2)
(M3 × 18, P=0.5, Stainless)
Nut plate (1)

E39-L190

Mounting Bracket



Nut Plate



Material: Stainless steel (SUS304)
Thickness: 1.2 mm
Accessories: Phillips screws (2)
(M3 × 18, P=0.5, Stainless)
Nut plate (1)

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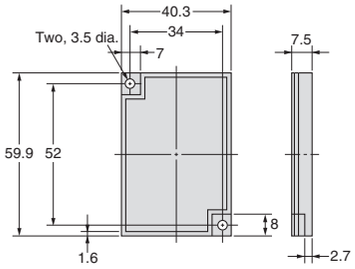
Reflector dimensions

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

E39-R1
E39-R1S
E39-R1K *

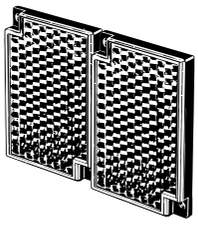


Material,
reflective surface: acrylic
Rear surface: ABS

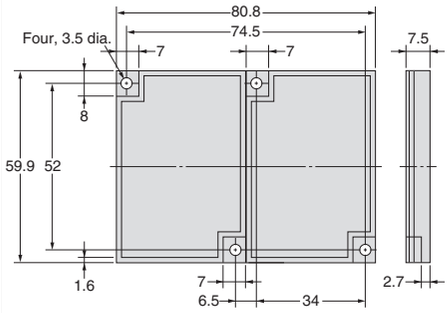


* E39-R1K only
Coating on reflective surface

E39-R2

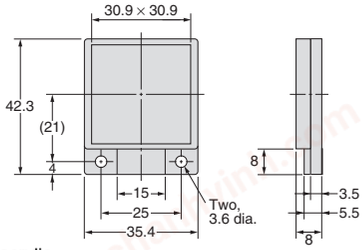


Material,
reflective surface: acrylic
Rear surface: ABS



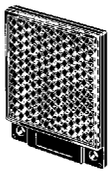
E39-R9

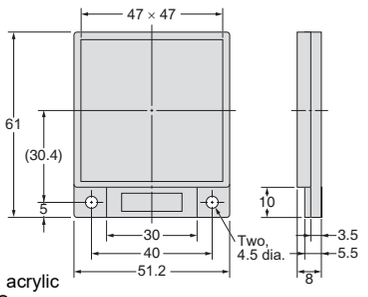




Material,
reflective surface: acrylic
Rear surface: ABS

E39-R10



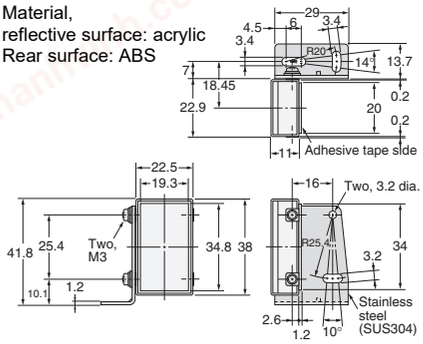


Material,
reflective surface: acrylic
Rear surface: ABS

E39-R3

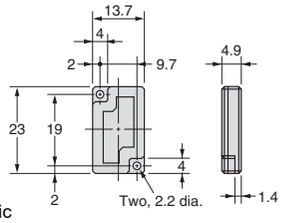


Material,
reflective surface: acrylic
Rear surface: ABS



E39-R4

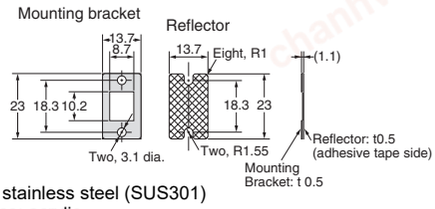




Material,
reflective surface: acrylic
Rear surface: ABS

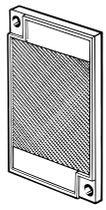
E39-R37-CA



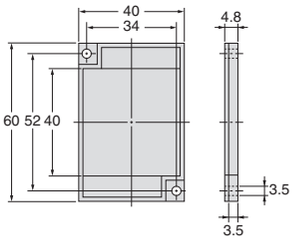


Material:
Mounting plate: stainless steel (SUS301)
Reflective surface: acrylic
Note: The reflective plate and mounting plate (1) come as a set.
Reflectors only for E3T-SR4□.

E39-R6

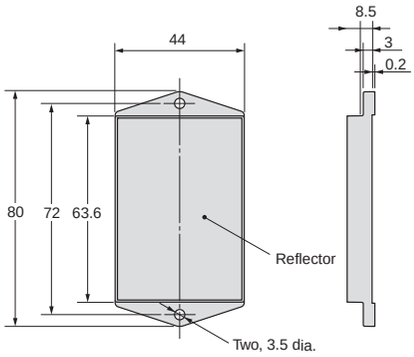


Material,
reflective surface: acrylic
Rear surface: ABS



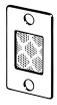
Retroreflector for E3ZM-B
E39-RP1

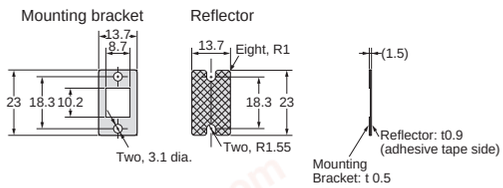




Material,
reflective surface:
acrylic
Rear surface: ABS

Retroreflector for E3ZM-B
E39-RP37

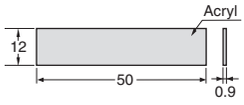




Material:
Reflective surface: acrylic
Mounting plate: stainless steel (SUS301)

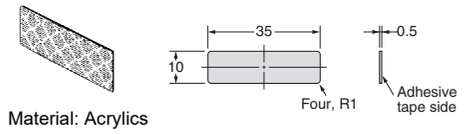
Note: The reflective plate and mounting plate (1) come as a set.

Retroreflector for E3ZM-B
E39-RSP1



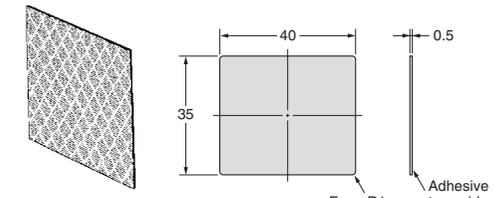
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E39-RS1
E39-RS1-CA *1



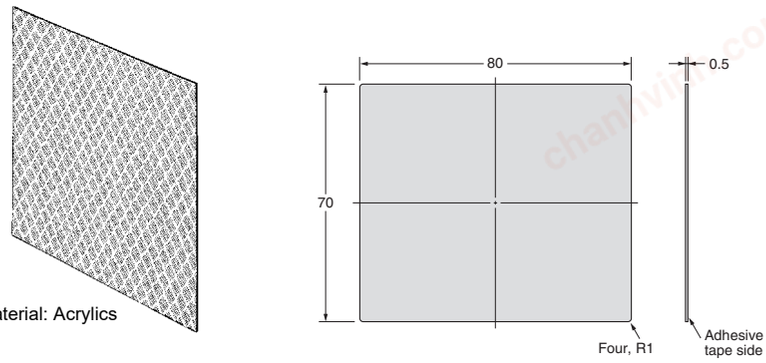
Material: Acrylics

E39-RS2
E39-RS2-CA *1



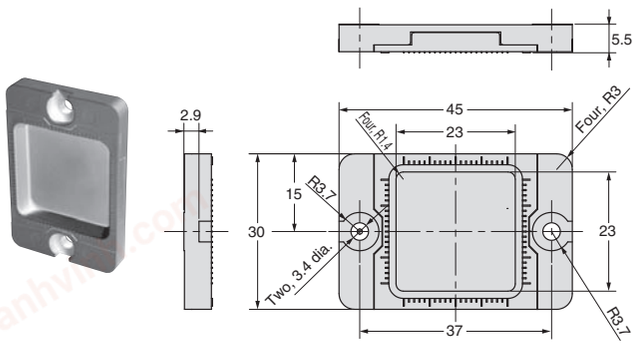
Material: Acrylics

E39-RS3
E39-RS3-CA *1

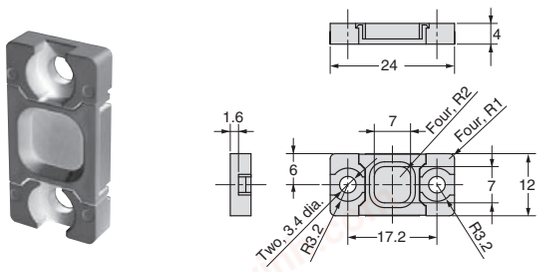


Material: Acrylics

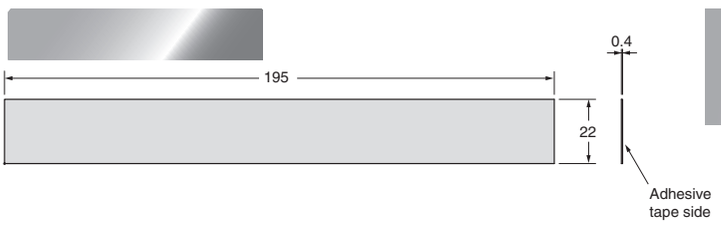
E39-R12/R14 *2



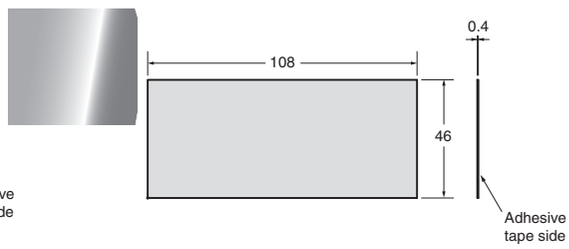
E39-R13 *2



E39-RS4 *2



E39-RS5 *2

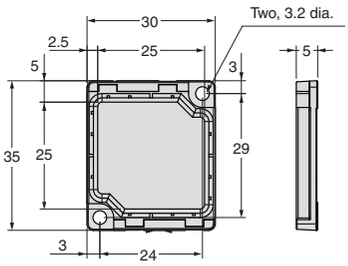


*1. Models ending in the suffix “-CA” are reflectors only for E3T-SR4□.
*2. These Reflectors are for E3C-LDA-series Sensors. However, the E39-R12 can also be used with an E3Z-LR□ Retroreflective Laser Sensor.

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E39-R21 *3

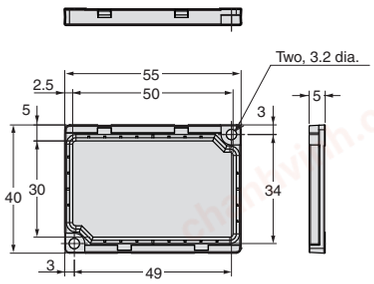




Material, reflective surface: methacrylic resin (PMMA)
Rear surface: Polybutylene terephthalate (PBT)

E39-R22 *3

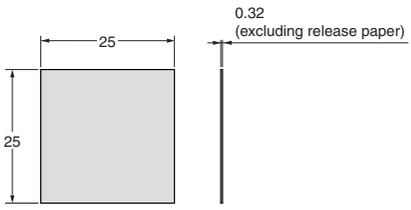




Material, reflective surface: methacrylic resin (PMMA)
Rear surface: Polybutylene terephthalate (PBT)

E39-RS10 *3

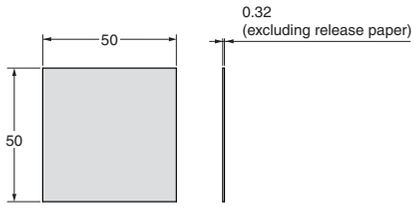




Material, reflective surface: acrylic

E39-RS11 *3





Material, reflective surface: acrylic

*3. Models only for E3NC-LH03

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2024.10

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