

Mounting Brackets

Model	Fitting materials	Count	Accessories			Applicable sensor (mounting pitch on sensor side)	Page Dimensions
			Description	Material	Count		
E39-L2	Iron, zinc plating	1	Hexagonal bolts M4 × 12 (with spring and plain washers)	Iron, zinc plating	2	E3S-RS30E4□ (25.4) E3S-R1E4□ (25.4)	5
E39-L4	Iron, zinc plating	1	Slotted/Phillips screws M3 × 12 (with spring and plain washers)	Iron, zinc plating	2	E32-T16 (20)	
E39-L5	Iron, zinc plating	1	Hexagonal bolts M4 × 20 (with spring and plain washers) Nuts M4	Iron, zinc plating	2	E3L-DS50E4	
				Iron, zinc plating	2		
E39-L6	Iron, zinc plating	1	Hexagonal bolts M4 × 12 (with spring and plain washers)	Iron, zinc plating	2	E3L-2RC4 (25.4) E3S-RS30E4□ (25.4) E3S-R1E4□ (25.4)	
E39-L31	Iron, zinc plating	1	Slotted/Phillips screws, M3 × 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) Nuts M4	Iron, zinc plating	2	E3JK	6
				Iron, zinc plating	2		
E39-L41	Iron, zinc plating	2	Phillips screws M3 × 14 (with spring washers) Plain washer M3	Iron, zinc plating	4	E3C-1 (10)	
				Iron, zinc plating	4		
E39-L42	Iron, black coating	2	Phillips screws M3 × 10 (with spring washers) Plain washer M3	Iron, zinc plating	4	E3C-2 (20) E3C-DS10 (19) 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) Nuts M4	Iron, zinc plating	2	E3JM (40)	
				Iron, nickel plating	2		
E39-L53	Iron, zinc plating	1	---	---	---	E3JM (40)	
E39-L54V	Stainless steel (SUS304)	1	---	---	---	E32-T54V	6
E39-L69	Stainless steel (SUS304)	1	Slotted/Phillips screws M3 × 12 (with spring and plain washers)	Stainless steel (SUS304)	2	E3S-R1□ (20) E3S-R3□ (20)	
E39-L70	Stainless steel (SUS304)	1	Slotted/Phillips screws M3 × 12 (with spring and plain washers)	Stainless steel (SUS304)	2	E3S-R6□ (20) E3S-R8□ (20)	
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) E3S-CR62/67 (25.4)	

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			Description	Material	Count		
E39-L93FH	Stainless steel (SUS304)	1	Holder (upper)	Heat-resistant ABS resin	1	E3Z (25.4) E3S-R1□/R3□ /R6□/R8□ (20) E39-R1/E39-R3	8
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		
E39-L93XY	---	---	Spring washer M4	Iron, nickel plating	1	E3Z (25.4) E3S-R1□/R3□ /R6□/R8□ (20) E39-R1/E39-R3	9
			Plain washer M4	Iron, nickel plating	1		
			Nuts M4	Iron, nickel plating	3		
			Holder	66 nylon	1		
E39-L94	Iron, zinc plating	2	Pipe	Stainless steel (SUS304)	1	E32-T16P (19)	10
E39-L96	Stainless steel (SUS304)	1	Bolts M5 × 16 with hexagonal holes	Stainless steel (SUS304)	2		
			Nuts M5	Stainless steel (SUS304)	2		
E39-L97	Stainless steel (SUS304)	2	Phillips screws M3 × 10	Iron, zinc plating	4		
E39-L98	Stainless steel (SUS304)	1	Nuts M3	Iron, zinc plating	4	E3Z pre-wired model (25.4) E3S-R6□/R8□ (20)	11
E39-L102	Stainless steel (SUS304)	1	Phillips screws M3 × 6 (with spring and plain washers)	Iron, nickel plating	2		
E39-L103	Stainless steel (SUS304)	1	Slotted/Phillips screws M3 × 12 (with spring and plain washers)	Stainless steel (SUS304)	2	E3S-C (horizontal type) (25.4) E3S-C (vertical type) (25.4) E3S-CR62/67 (25.4)	10
E39-L104	Stainless steel (SUS304)	1	Slotted/Phillips screws M3 × 12 (with spring and plain washers)	Stainless steel (SUS304)	2		
E39-L109	Stainless steel (SUS430)	1	Hexagonal bolts M4 × 12 (with spring and plain washers)	Iron, zinc plating	2	E3Z pre-wired model (25.4) E32-R21 (for installation of E39-R3) (25.4)	11
E39-L114	Stainless steel (SUS430)	1	Hexagonal bolts M4 × 12 (with spring and plain washers)	Iron, zinc plating	2		
E39-L115	Stainless steel (SUS304)	1	Slotted/Phillips screws M3 × 8	Iron, nickel plating	2	E32-S15-□ (13.2)	10
E39-L116	Stainless steel (SUS304)	1	Phillips screws M3 × 8	Iron, nickel plating	2		
E39-L117	Stainless steel (SUS304)	1	Phillips screws M5 × 10	Iron, zinc plating	4	E3MC (28)	11
E39-L118	Stainless steel (SUS304)	1	Phillips screws M5 × 8	Iron, zinc plating	4		
E39-L119	Stainless steel (SUS304)	1	Slotted/Phillips screws M3 × 8	Iron, nickel plating	2	E3MC	10
E39-L120	Stainless steel (SUS304)	1	Phillips screws M3 × 8	Iron, nickel plating	2		
E39-L127-T1	Iron, zinc plating	1	Phillips screws M2.3 × 8	Iron, zinc plating	4	E3C-S10 (7.5)	11
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		
			Spring washer M2.3	Iron, zinc plating	4		

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Model	Fitting materials	Count	Accessories			Applicable sensor (mounting pitch on sensor side)	Page
			Description	Material	Count		Dimensions
E39-L131	Stainless steel (SUS304)	1	Slotted/Phillips screws M4 × 25	Stainless steel (SUS304)	2	E3G-R1□ (25) E3G-L7□ (25)	12
			Spring washer M4	Stainless steel (SUS304)	2		
			Plain washer M4	Stainless steel (SUS304)	2		
			Nuts M4	Stainless steel (SUS304)	2		
E39-L132	Stainless steel (SUS304)	1	Slotted/Phillips screws M4 × 25	Stainless steel (SUS304)	2	E3G-R1□ (25) E3G-L7□ (25)	
			Spring washer M4	Stainless steel (SUS304)	2		
			Plain washer M4	Stainless steel (SUS304)	2		
			Nuts M4	Stainless steel (SUS304)	2		
E39-L135	Stainless steel (SUS304)	1	Slotted/Phillips screws M4 × 35	Stainless steel (SUS304)	2	E3G-MR19 (T) E3G-ML79 (T)	
			Spring washer M4	Stainless steel (SUS304)	2		
			Plain washer M4	Stainless steel (SUS304)	2		
			Nuts M4	Stainless steel (SUS304)	2		
E39-L136	Stainless steel (SUS304)	1	Slotted/Phillips screws M4 × 35	Stainless steel (SUS304)	2	E3G-MR19 (T) E3G-ML79 (T)	
			Spring washer M4	Stainless steel (SUS304)	2		
			Plain washer M4	Stainless steel (SUS304)	2		
			Nuts M4	Stainless steel (SUS304)	2		
E39-L142	Stainless steel (SUS304)	1	Slotted/Phillips screws M3 × 8 (with spring and plain washers)	Stainless steel (SUS304)	2	E3Z pre-wired model (25.4)	
E39-L143	Stainless steel (SUS304)	1	None	---	---	E3X-DA-S/MDA E3X-NA E3C-LDA E2C-EDA	
E39-L144	Stainless steel (SUS304)	1	Slotted/Phillips screws M3 × 12 (with spring and plain washers)	Stainless steel (SUS304)	2	E3Z pre-wired model (25.4)	
E39-L148	Stainless steel (SUS304)	1	None	---	---	E3X-NA	
E39-L149	Iron, black coating	1	None	---		E3Z-G	
E39-L150	Stainless steel (SUS304)	1	Holder/bracket	PBT (polybutylene terephthalate)	1	E3Z (25.4) E3S-R6□/R8□ (20) E39-R3	13
			Shaft (brace)	Stainless steel (SUS304)	1		
			Bolt with hexagonal hole	Stainless steel (SUSXM7)	1		
			Nut	Stainless steel (SUS304)	1		
			Phillips screw	Stainless steel (SUSXM7)	1		
			Slotted/Phillips screws	Stainless steel (SUS304)	2		
E39-L151	Stainless steel (SUS304)	1	Holder/bracket	PBT (polybutylene terephthalate)	1	E3Z (25.4) E3S-R6□/R8□ (20) E39-R3	
			Shaft (brace)	Stainless steel (SUS304)	1		
			Bolt with hexagonal hole	Stainless steel (SUSXM7)	1		
			Nut	Stainless steel (SUS304)	1		
			Phillips screw	Stainless steel (SUSXM7)	1		
			Slotted/Phillips screws	Stainless steel (SUS304)	2		
E39-L153	Stainless steel (SUS304)	1	Slotted/Phillips screws M3 × 8 (with spring and plain washers)	Stainless steel (SUSXM7) Stainless steel (SUS304)	2	E3Z pre-wired model (25.4)	
F39-L1	Iron, zinc plating	4	Phillips screws M4 × 20	Brass, nickel-plated	8	F3W-B	
			Nuts M4	Brass, nickel-plated	8		
F39-L2	Iron, zinc plating	4	Phillips screws M4 × 25	Brass, nickel-plated	8	F3W-B	
			Phillips screws M4 × 20	Brass, nickel-plated	8		
			Nuts M4	Brass, nickel-plated	8		
			Mounting Spacer	Heat-resistant ABS resin	4		
F39-L3	Iron, zinc plating	4	---	---	---	F3W-A	
F39-L4	Iron, zinc plating	4	---	---	---	F3W-C	
F39-L5	Iron, zinc plating	4	---	---	---	F3W-C	
F39-L9	Stainless steel (SUS304)	1	Slotted/Phillips screws M3 × 25 Plain washer M3	Iron, zinc plating Iron, zinc plating	2 2	F3UV-A	
F39-L10	Iron	2	Phillips screws M4 × 15 Nuts M4	Iron Iron	4 4	F3W-D	
F39-L11	Iron	2	Phillips screws M4 × 15 Nuts M4	Iron Iron	4 4		
F39-L12	Iron	2	Phillips screws M4 × 15 Nuts M4	Iron Iron	4 4	F3W-D Protective fittings	

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

Contact Mounting Plates

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

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

Slits

Model	Slit width	Installation procedure	Applicable type
E39-S39	Width 1 × 20 mm	Seal type	E3JM-10□4 (T) E3JK-5□□
E39-S60	Width 0.5, 1 × 15 mm	Seal type	E32-T16
E39-S61	Width 0.5, 1, 2, 4 × 11 mm	Plug-in type	E3S-CT□1
E39-S63	0.5-mm dia., 1 mm		E3T-ST1□
E39-S64	0.5-mm dia., 1 mm		E3T-FT1□
E39-S65A	0.5 mm dia.		E3Z-T□□
E39-S65B	1-mm dia.		
E39-S65C	2-mm dia.		
E39-S65D	Width 0.5 × 10 mm		
E39-S65E	Width 1 × 10 mm		
E39-S65F	Width 2 × 10 mm		

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

Reflectors (Refer to Dimensions on page 16.)

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

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

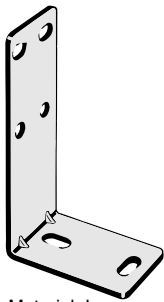
*2. 40° or higher for E3G-R.

Item	Name	Small reflector				Tape reflector		
	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.		2° to 20° min.		30° min.			
Ambient operating temperature range	−25 to 55°C							
Ambient storage temperature range	−40 to 70°C				0 to 40°C			
Ambient operating humidity range	35% to 95%	35% to 85%						
Ambient storage humidity range	35% to 95%				35% to 85%			
Degree of protection	IEC IP67							
Accessories	---	Mounting Brackets E39-L104 (with screws)	---	Phillips screws M3 × 3, spring washers M3, nuts M3	---			

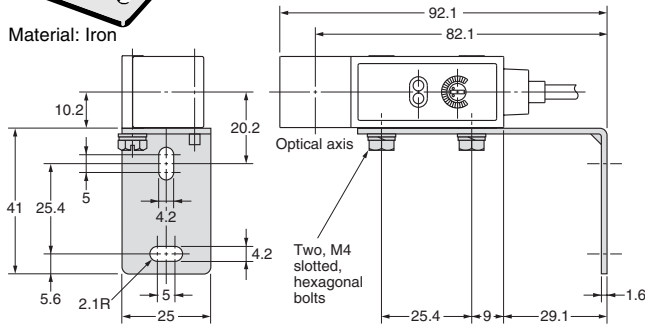
Item	Name	Laser Reflectors				
		Standard		Short-distance transparent object detection	Sheets	
	Model	E39-R12	E39-R13	E39-R14	E39-RS4	E39-RS5
Ambient operating temperature range		-10 to 55°C (No icing)				
Ambient storage temperature range		-25 to 70°C (No icing)				
Ambient operating humidity range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

Mounting Bracket Dimensions

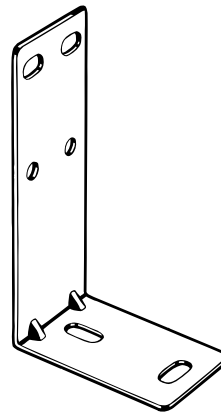
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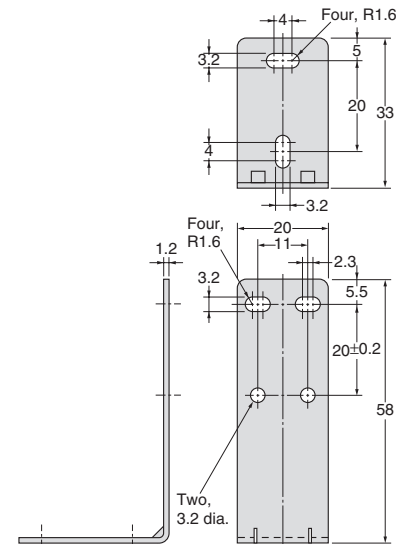
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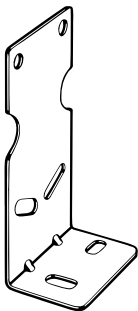
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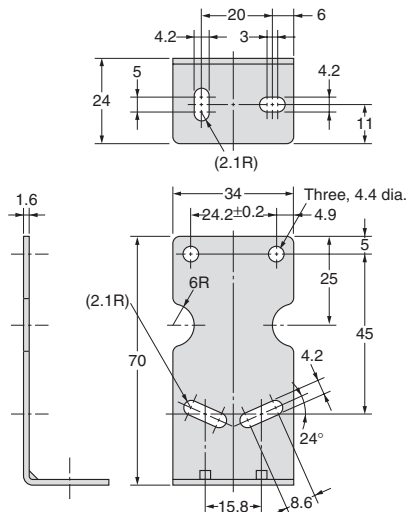
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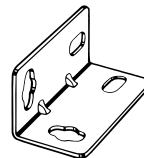
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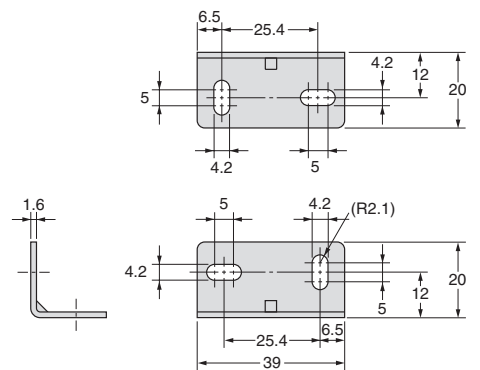
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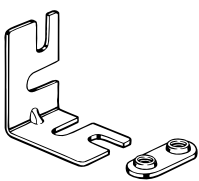
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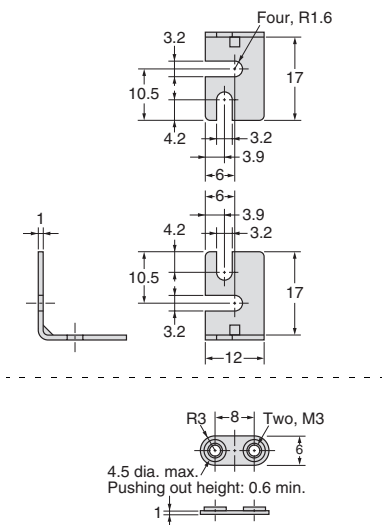
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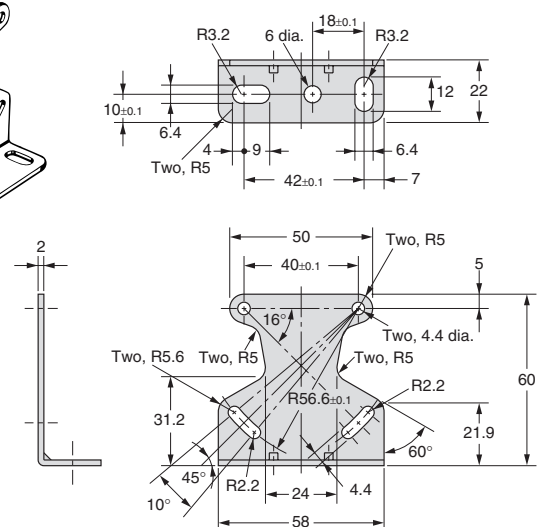
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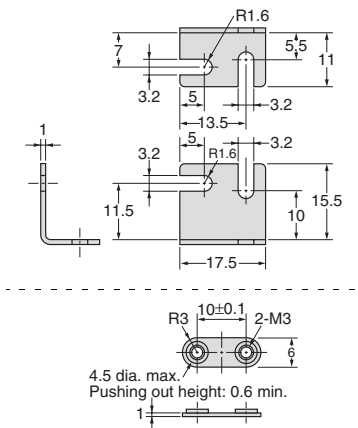
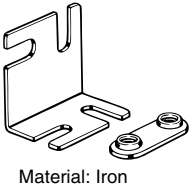
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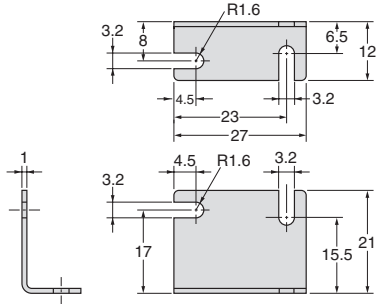
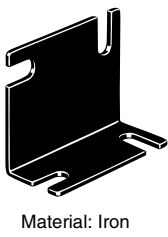
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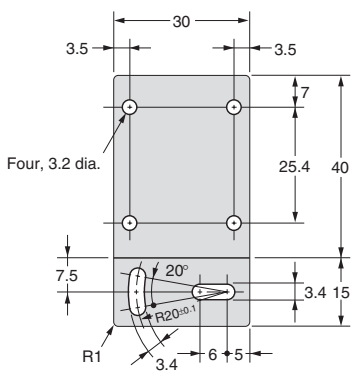
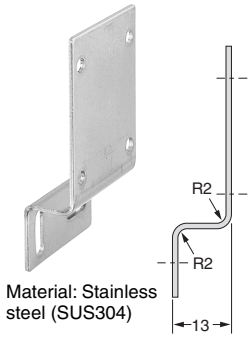
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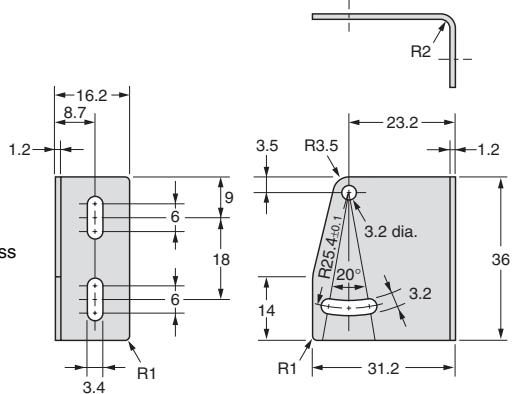
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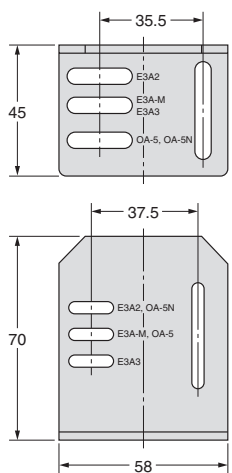
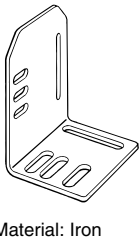
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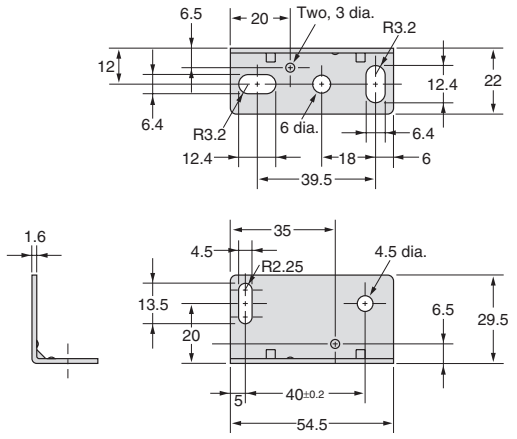
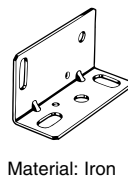
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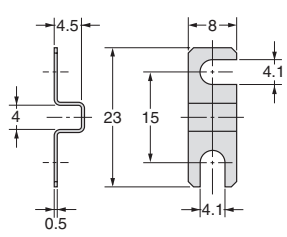
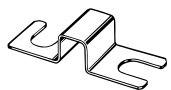
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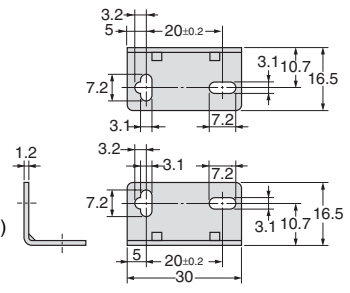
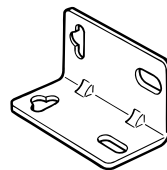
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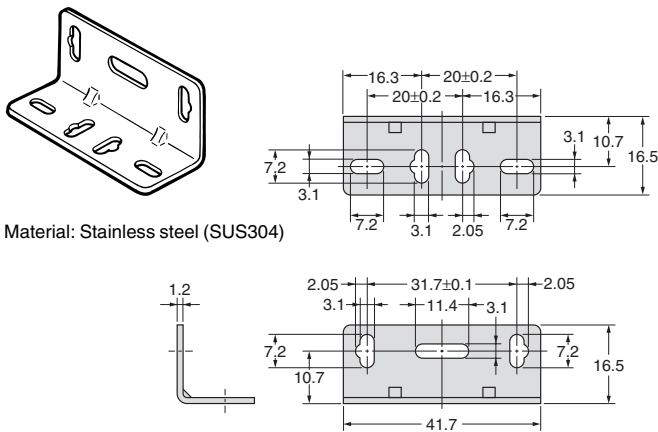
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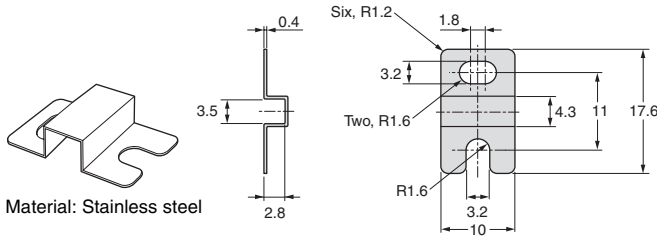
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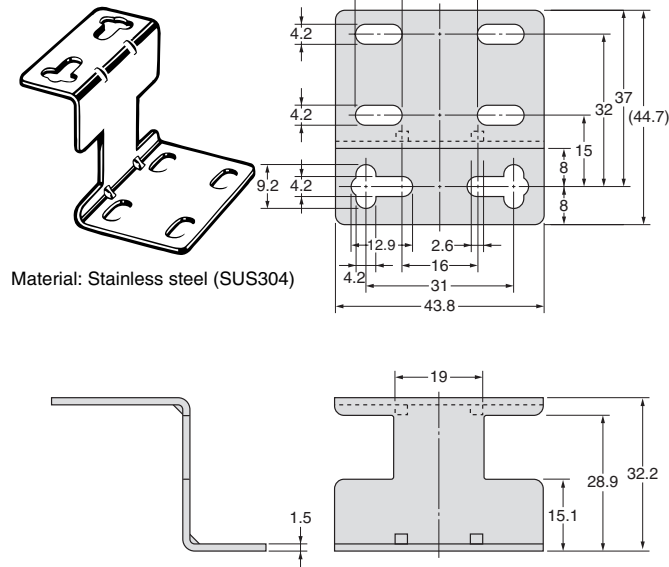
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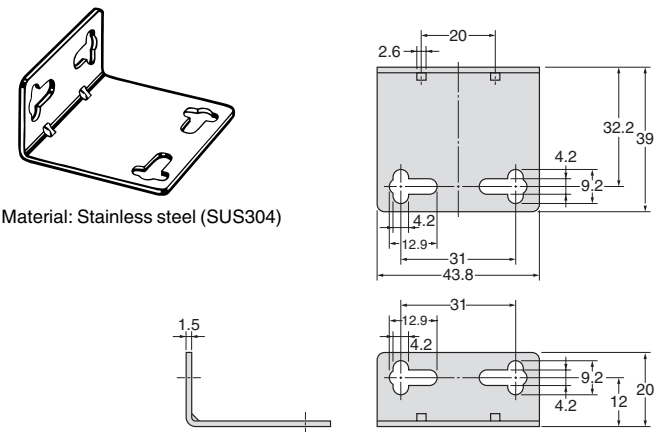
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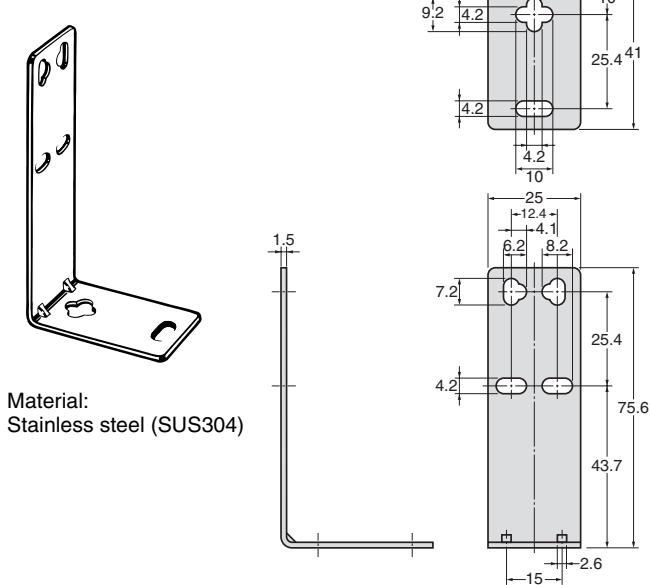
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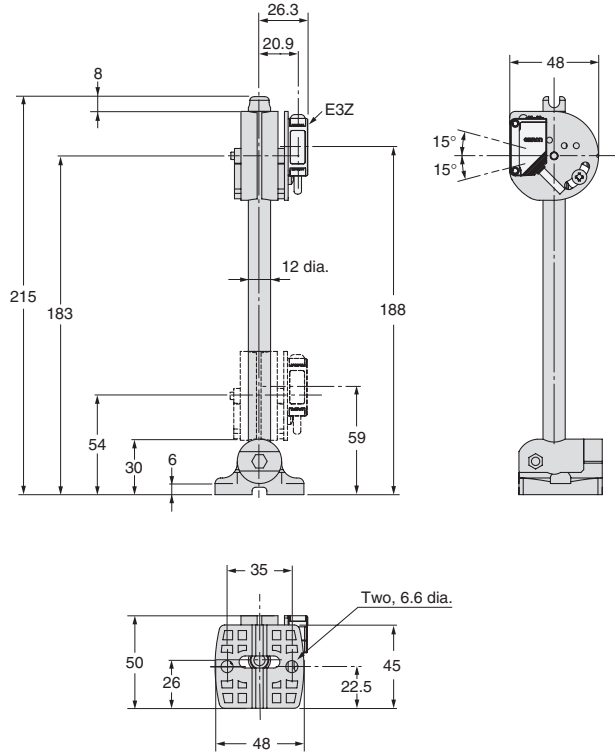
E39-L86



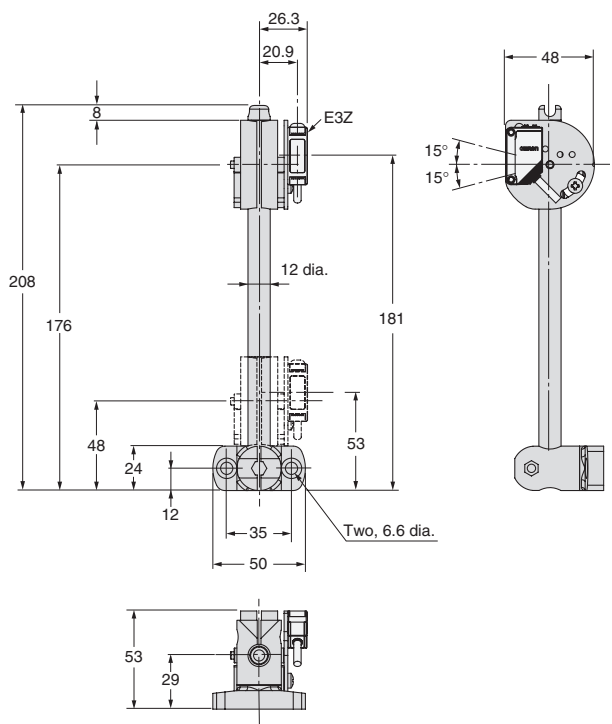
E39-L87



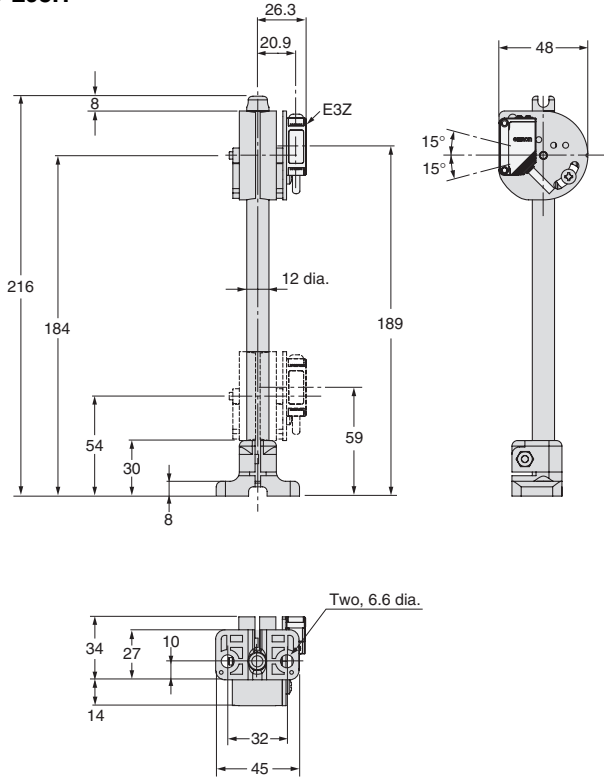
E39-L93FH



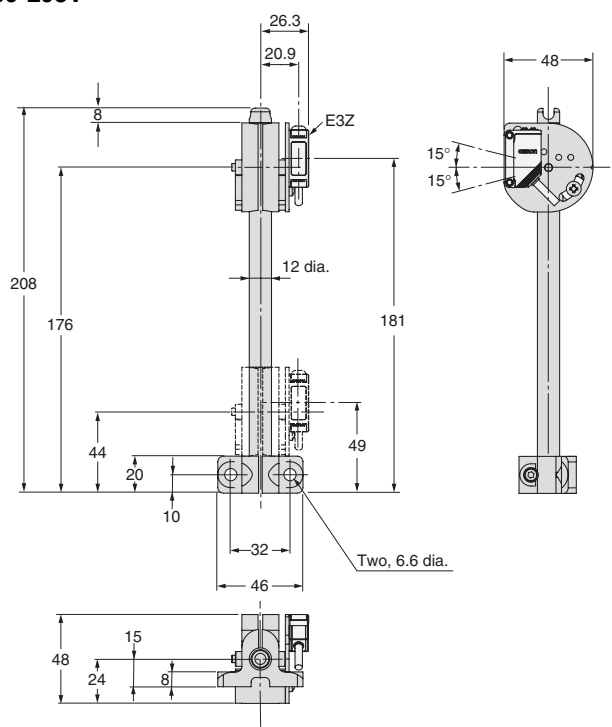
E39-L93FV



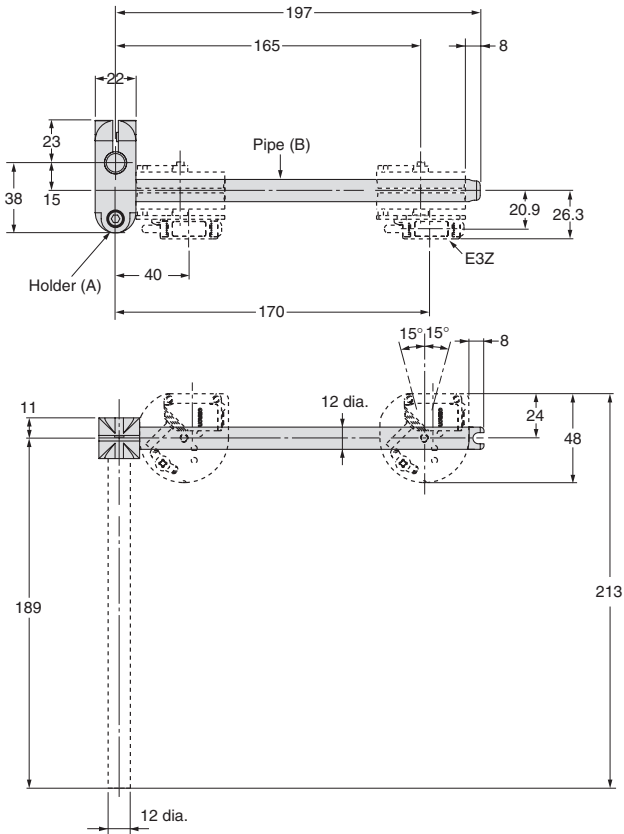
E39-L93H



E39-L93V

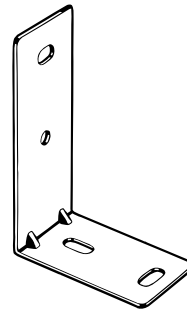


E39-L93XY

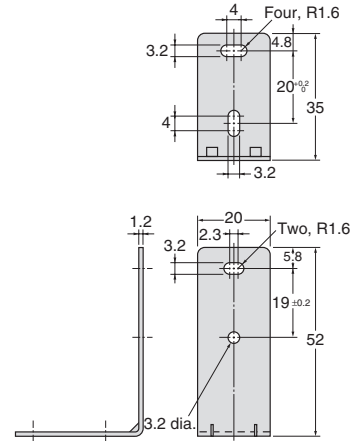


Note: The E39-L93XY consists of only the one joint holder (A) and pipe, and the two hexagonal bolts and nuts. It cannot be mounted to the Sensor alone.

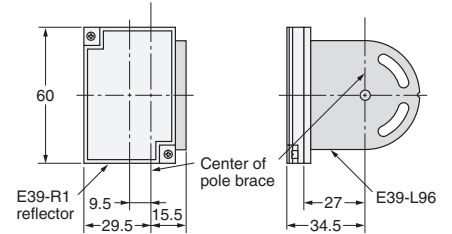
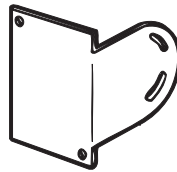
E39-L94



Material: Iron

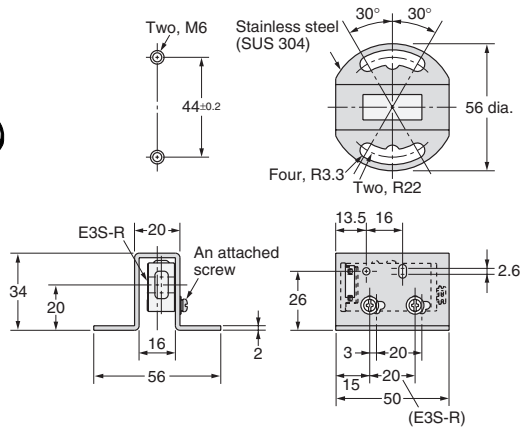
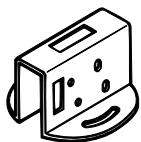


E39-L96



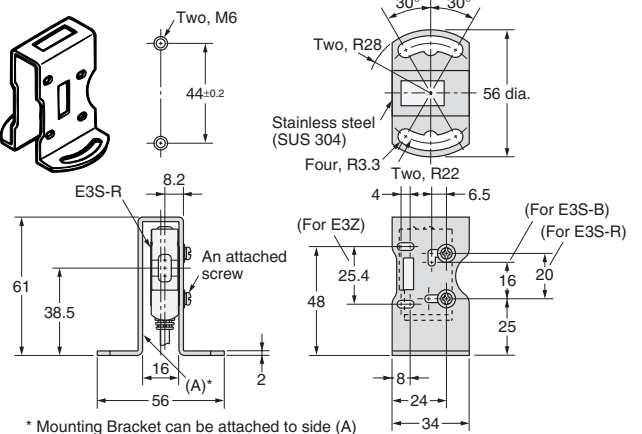
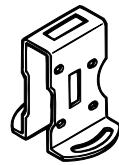
E39-L97

Mounting Holes



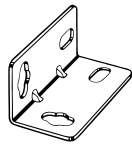
E39-L98

Mounting Holes

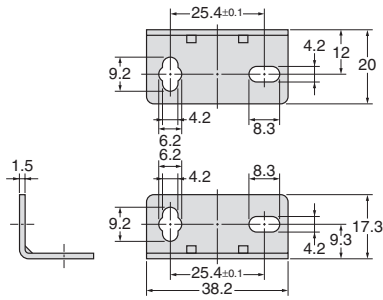


* Mounting Bracket can be attached to side (A)

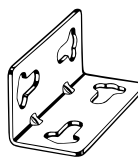
E39-L102



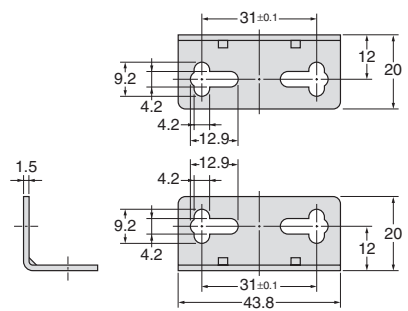
Material:
Stainless steel (SUS304)



E39-L103



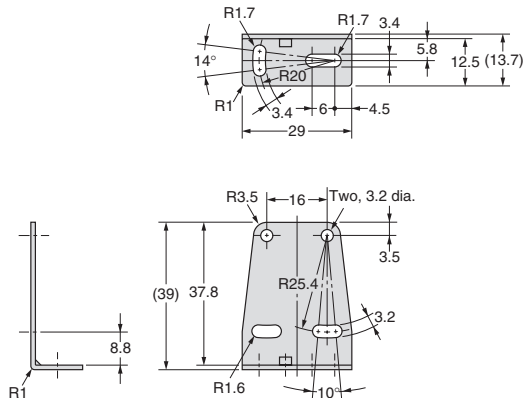
Material:
Stainless steel (SUS304)



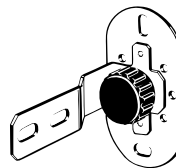
E39-L104



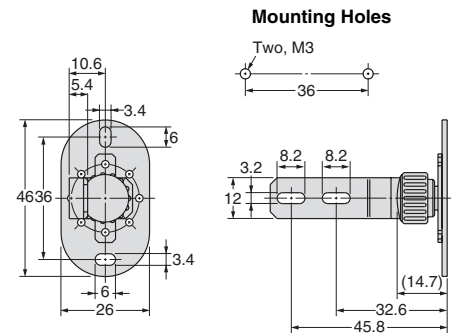
Material:
Stainless steel
(SUS304)



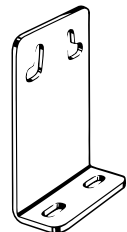
E39-L109



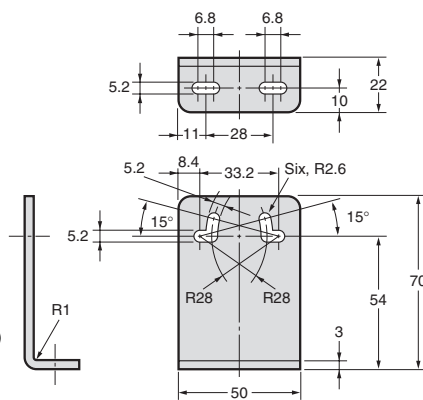
Material:
Stainless steel
(SUS430)



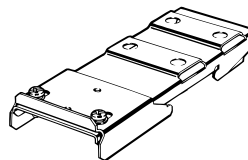
E39-L114



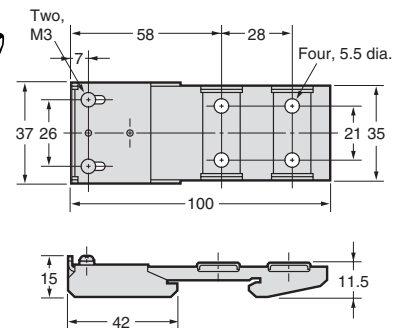
Material:
Stainless steel (SUS430)



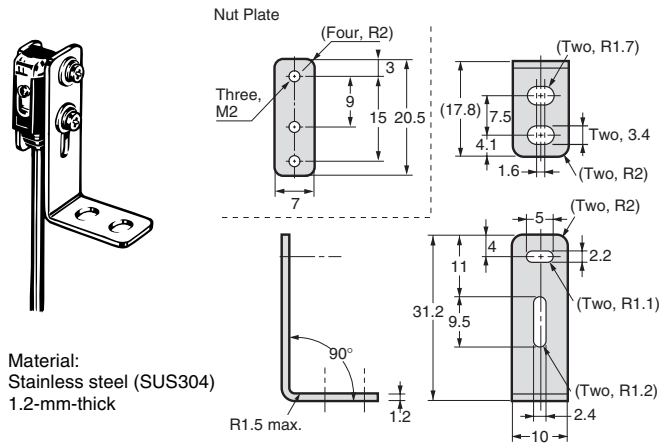
E39-L115



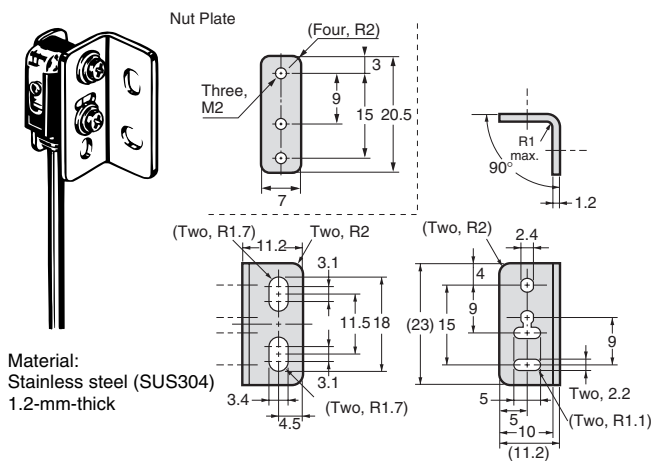
Material: Stainless steel (SUS304)



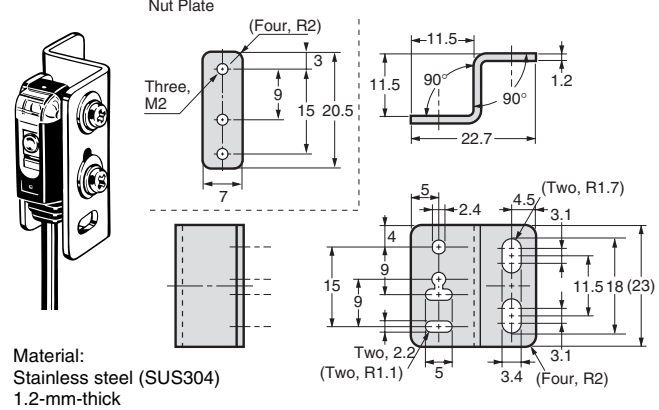
E39-L116



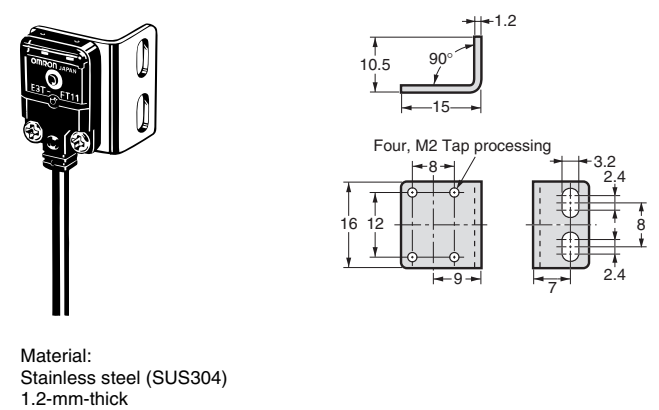
E39-L117



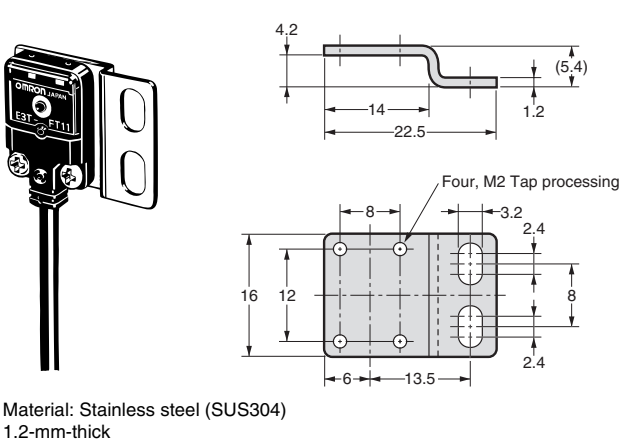
E39-L118



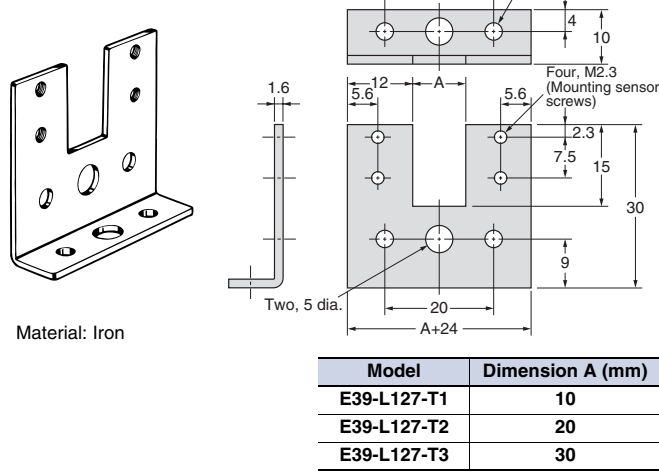
E39-L119



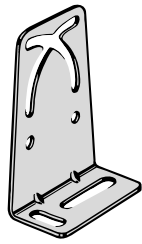
E39-L120



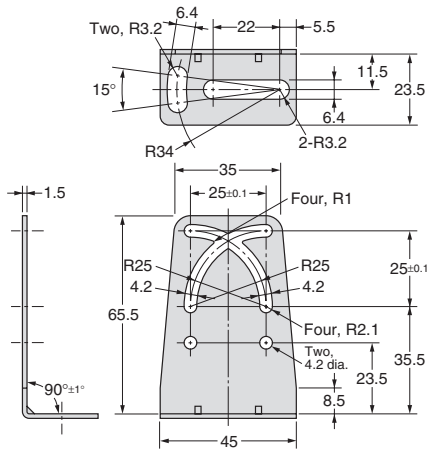
E39-L127-T1
E39-L127-T2
E39-L127-T3



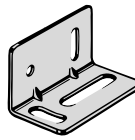
E39-L131



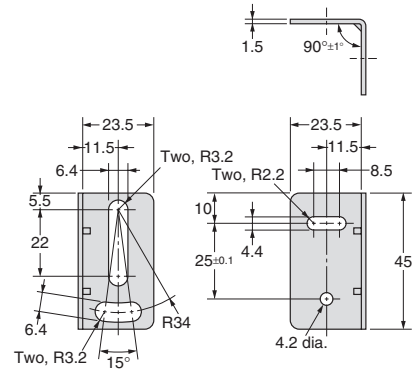
Material:
Stainless steel (SUS304)



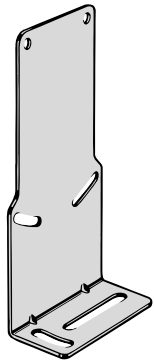
E39-L132



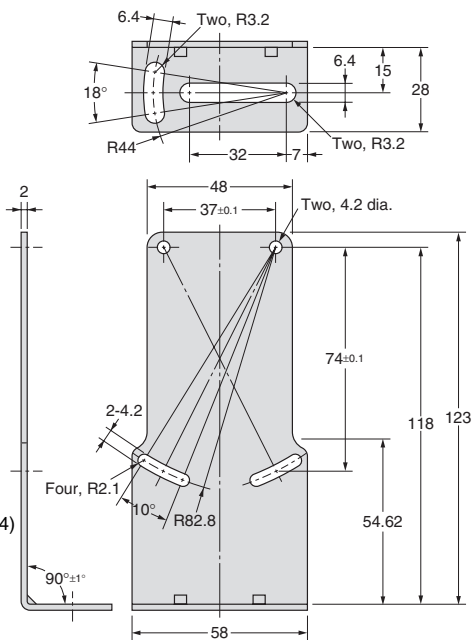
Material: Stainless steel (SUS304)



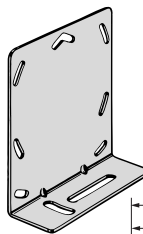
E39-L135



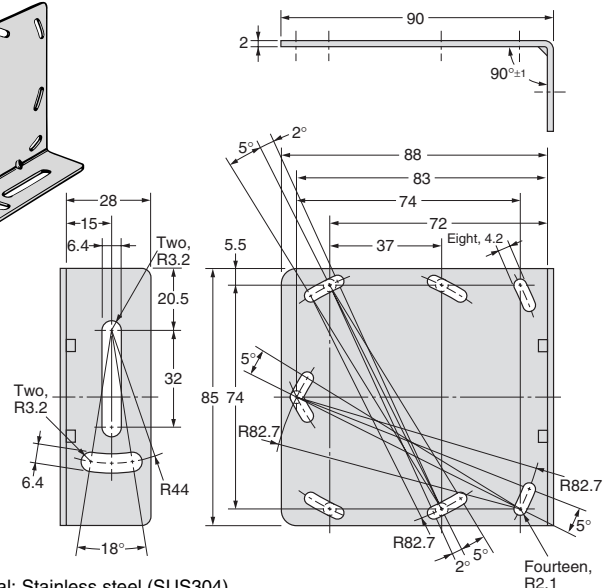
Material:
Stainless steel (SUS304)



E39-L136



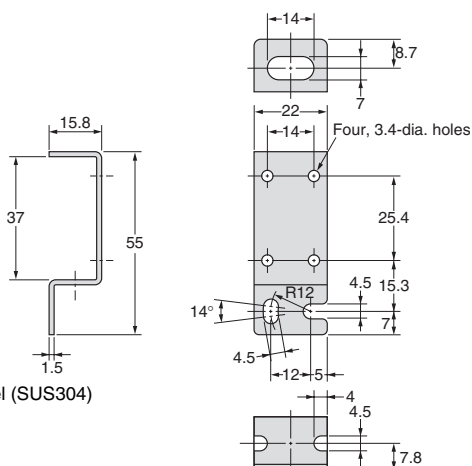
Material: Stainless steel (SUS304)



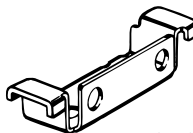
E39-L142



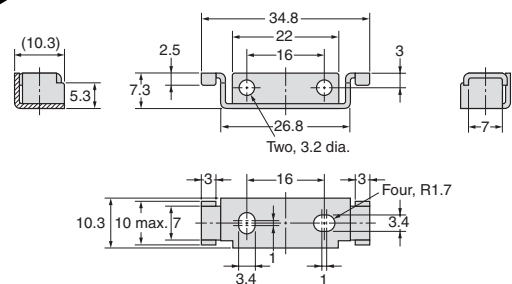
Material: Stainless steel (SUS304)



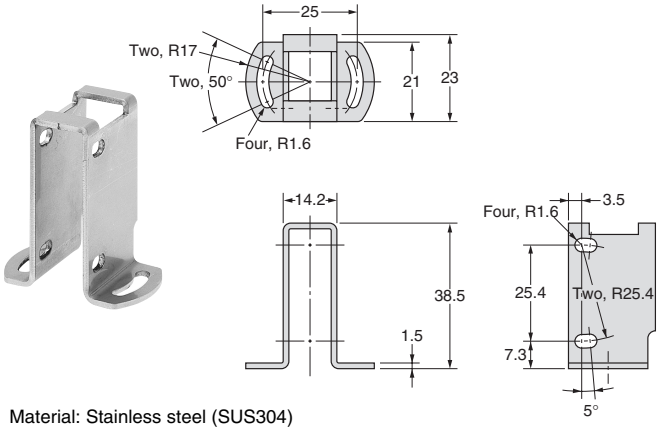
E39-L143



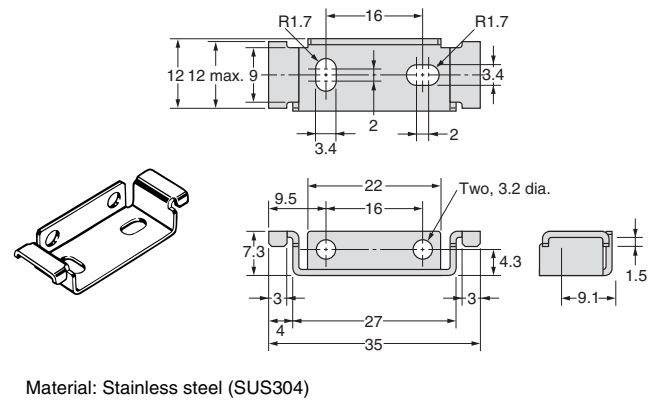
Material: Stainless steel (SUS304)



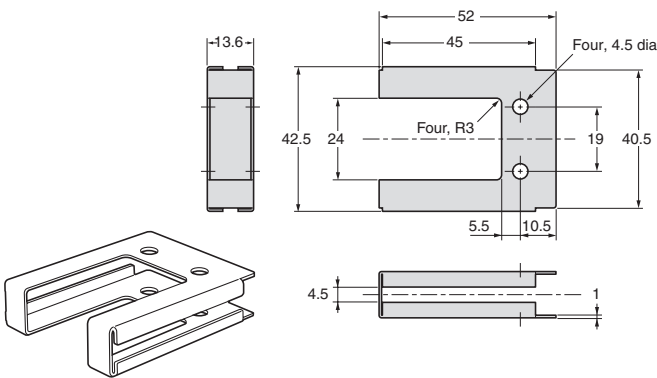
E39-L144



E39-L148

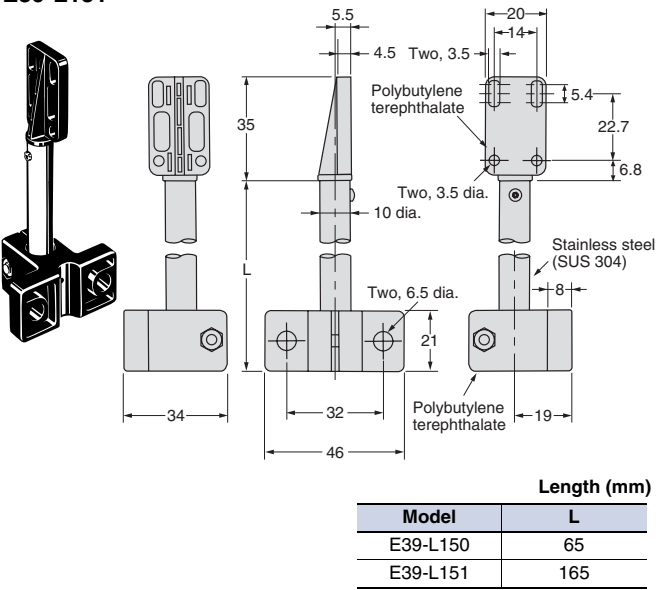


E39-L149

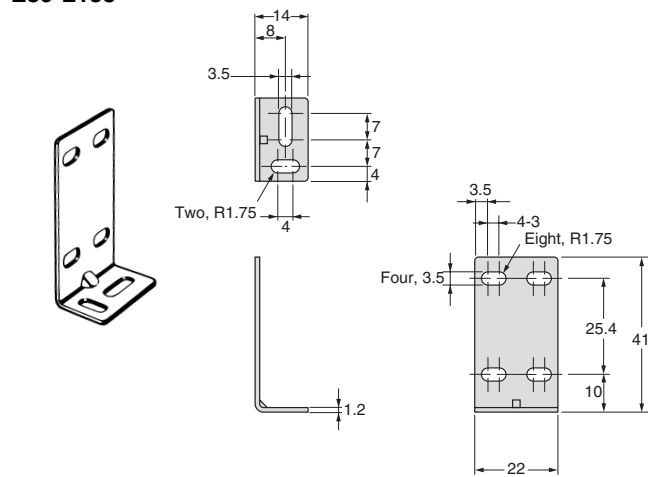


E39-L150

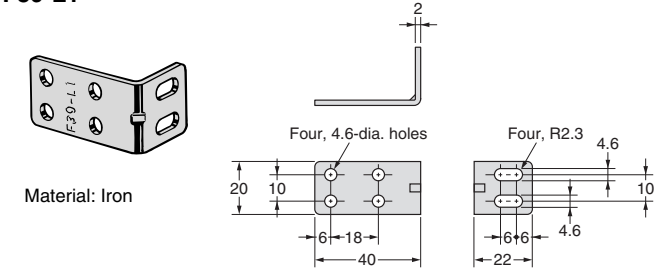
E39-L151



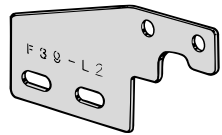
E39-L153



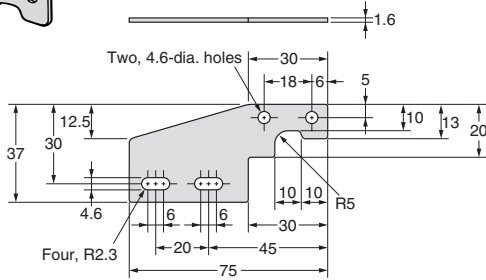
F39-L1



F39-L2



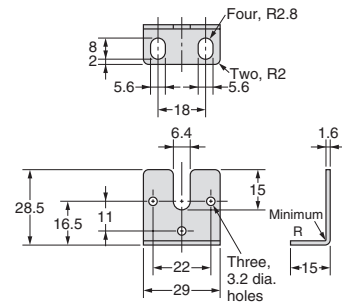
Material: Iron



F39-L3

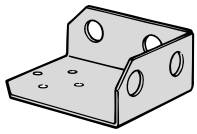


Material: Iron

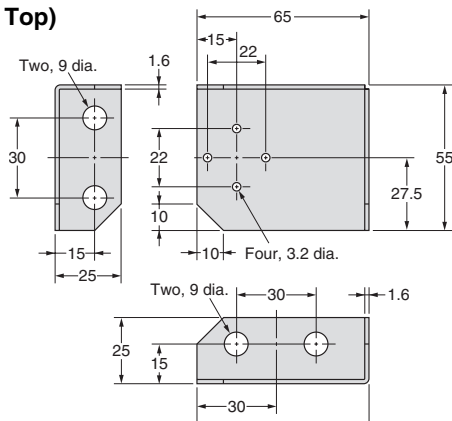


F39-L4

C Type (Receiver, Top)

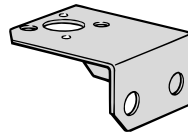


Material: Iron

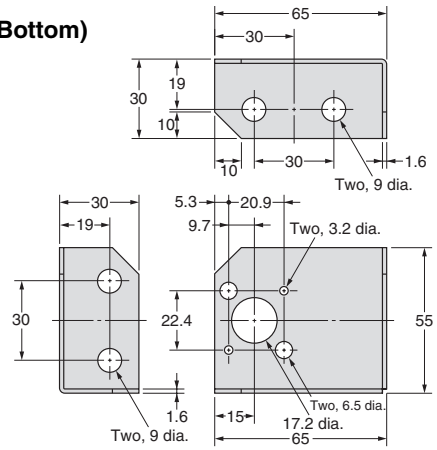


F39-L4

D Type (Receiver, Bottom)

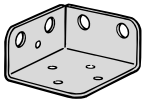


Material: Iron

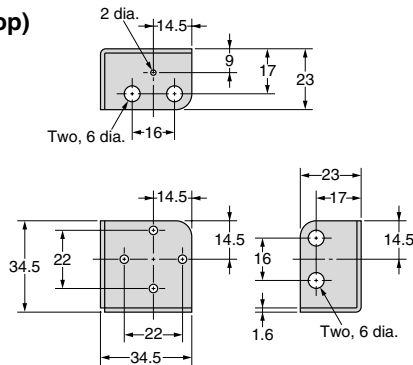


F39-L5

A Type (Emitter, Top)

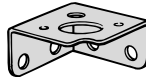


Material: Iron

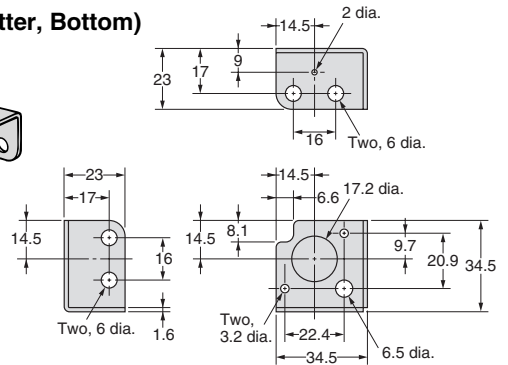


F39-L5

B Type (Emitter, Bottom)

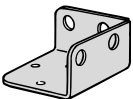


Material: Iron

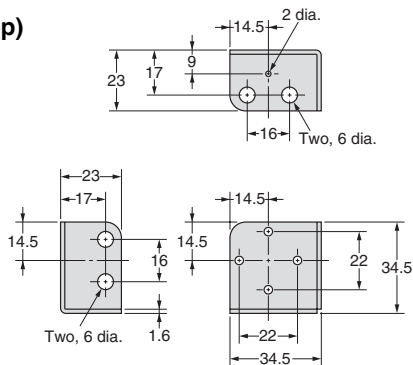


F39-L5

C Type (Receiver, Top)

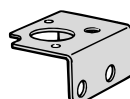


Material: Iron

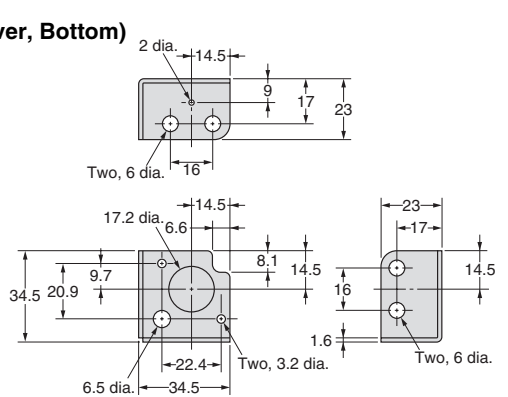


F39-L5

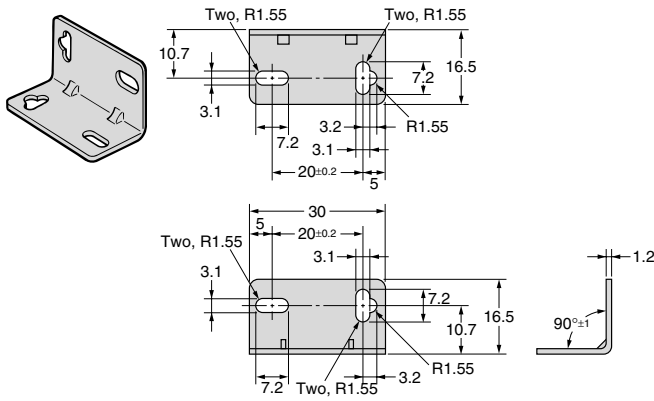
D Type (Receiver, Bottom)



Material: Iron

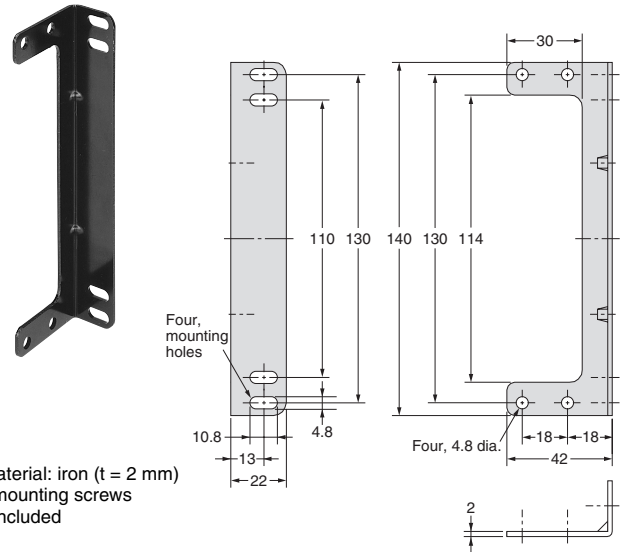


F39-L9



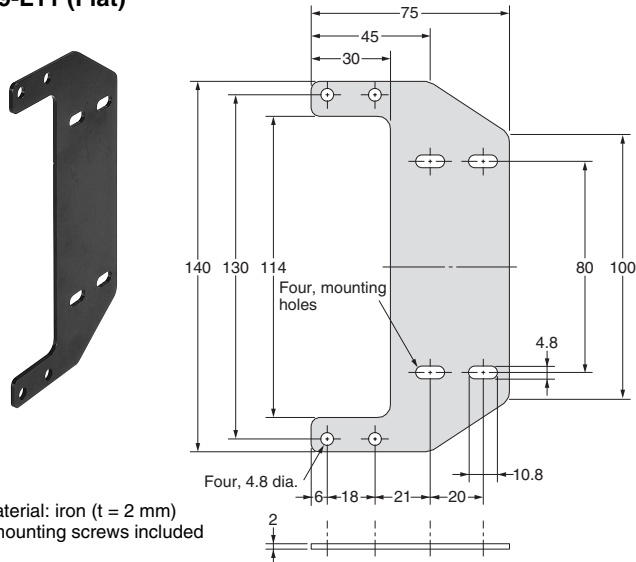
Material: Stainless steel (SUS304-CP)

F39-L10 (L-shaped)



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

F39-L11 (Flat)



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

F39-L12 (Receiver)



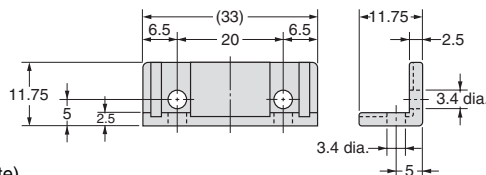
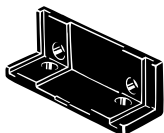
Material: iron (t = 2 mm)
* mounting screws included

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

Contact Mounting Plate

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

E39-L60



Material: PBT (polybutylene terephthalate)

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

Reflector dimensions

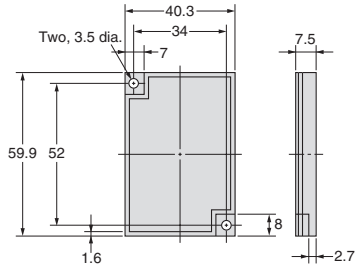
(Unit: mm)

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

E39-R1 E39-R1S E39-R1K *

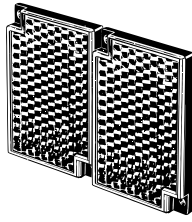


Material,
reflective surface: acrylic
Rear surface: ABS

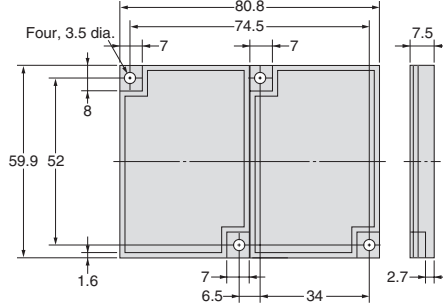


* E39-R1K only
Coating on reflective surface

E39-R2



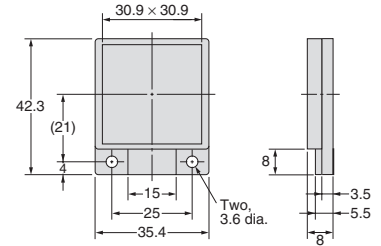
Material,
reflective surface: acrylic
Rear surface: ABS



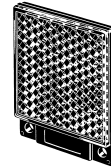
E39-R9



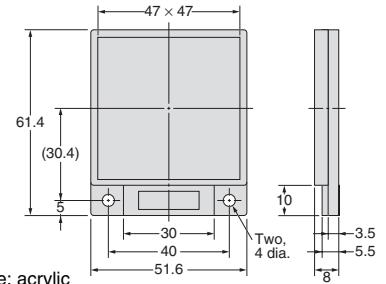
Material,
reflective surface: acrylic
Rear surface: ABS



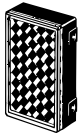
E39-R10



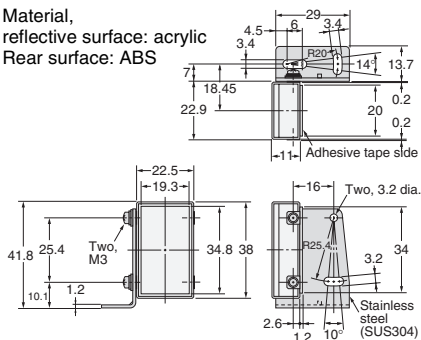
Material,
reflective surface: acrylic
Rear surface: ABS



E39-R3



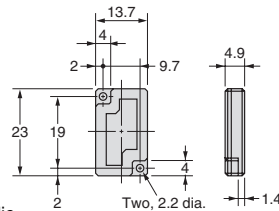
Material,
reflective surface: acrylic
Rear surface: ABS



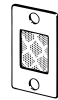
E39-R4



Material,
reflective surface: acrylic
Rear surface: ABS

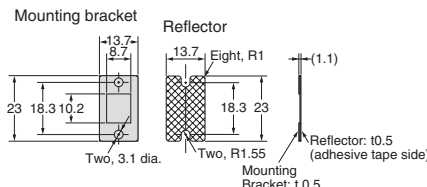


E39-R37-CA

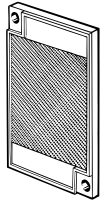


Material:
Mounting plate: stainless steel (SUS301)
Reflective surface: acrylic

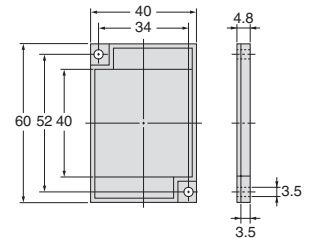
Note: The reflective plate and mounting plate (1) come as a set.



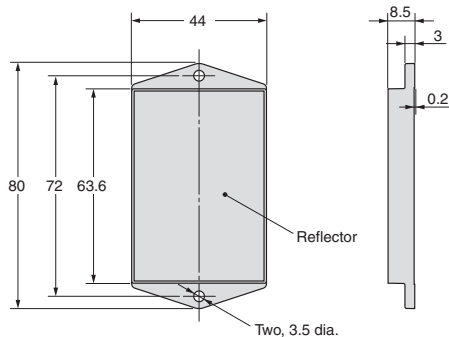
E39-R6



Material,
reflective surface: acrylic
Rear surface: ABS



Retroreflector for E3ZM-B E39-RP1

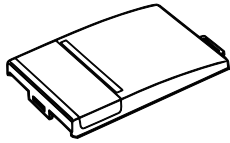


Protective Cover

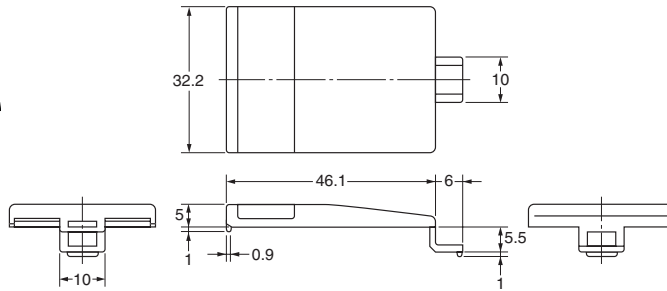
(Unit: mm)

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

E39-G9



Material: Polycarbonate

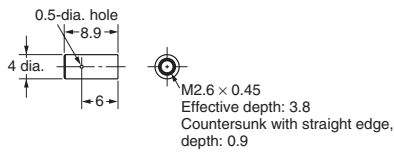


Lens Unit

(Unit: mm)

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

E39-F1V

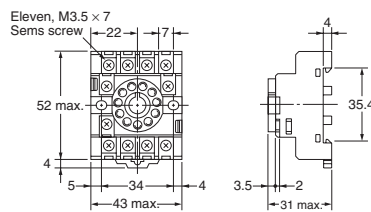
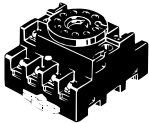


Connection Sockets

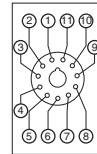
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Tolerance class IT16 applies to dimensions in this datasheet unless otherwise specified.

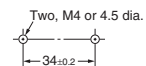
Front Connection Socket PF113A



Terminal arrangement/Inter- nal connections (top view)

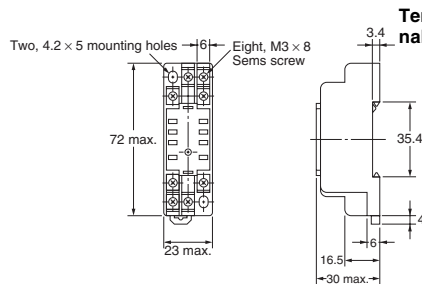
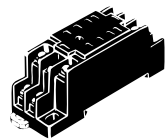


Mounting Holes

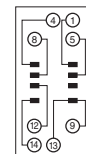


Note: Rail mounting also possible.

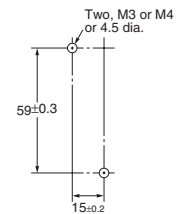
Front Connection Socket PYF08A



Terminal arrangement/Inter- nal connections (top view)

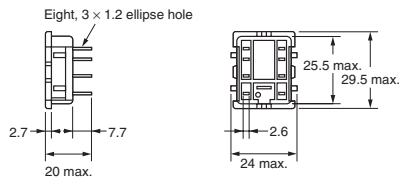
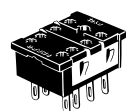


Mounting Holes

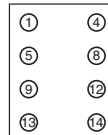


Note: Rail mounting also possible.

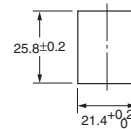
Front Connection Socket PY08



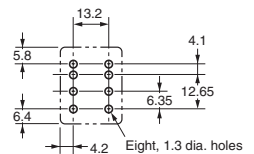
Terminal arrangement/Inter- nal connections (bottom view)



Mounting Holes



PCB Cutout Dimensions



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2008.11

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