Mounting Brackets

Model	Fitting materials	Count	Accessories			Applicable sensor (mounting pitch on sensor side)	Page
			Description	Material	Count		Dimensions
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 Iron, zinc plating	2 2	E3L-DS50E4	
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 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)	6
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)	
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 Iron, nickel plating	2 2	E3JM (40)	
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)	

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
			Description	Material	Count		Dimensions
E39-L93FH	Stainless steel (SUS304)	1	Holder (upper) Holder (lower) Pipe Bolts M4 × 12 with Hexagonal holes Bolts M4 × 30 with hexagonal holes Phillips screws M3 × 12 (with spring and plain washers) Spring washer M4 Plain washer M4 Nuts M4	Heat-resistant ABS resin 66 nylon Stainless steel (SUS304) Iron, nickel plating Iron, nickel plating Stainless steel (SUS304) Iron, nickel plating Iron, nickel plating Iron, nickel plating	1 1 1 2 1 2 1 1 3	E3Z (25.4) E3S-R1□/R3□ /R6□/R8□ (20) E39-R1/E39-R3	8
E39-L93FV	Stainless steel (SUS304)	1					
E39-L93H	Stainless steel (SUS304)	1					
E39-L93V	Stainless steel (SUS304)	1					
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) E3S-R1□/R3□ /R6□/R8□ (20) E39-R1/E39-R3	9
E39-L94	Iron, zinc plating	2	Phillips screws M3 × 10 Nuts M3	Iron, zinc plating Iron, zinc plating	4 4	E32-T16P (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-L97	Stainless steel (SUS304)	1	Slotted/Phillips screws M3 × 12 (with spring and plain washers)	Stainless steel (SUS304)	2	E3S-R1□/R3□ (20)	
E39-L98	Stainless steel (SUS304)	1	Slotted/Phillips screws M3 × 12 (with spring and plain washers)	Stainless steel (SUS304)	2	E3Z pre-wired model (25.4) E3S-R6□/R8□ (20)	
E39-L102	Stainless steel (SUS304)	1	Hexagonal bolts M4 × 12 (with spring and plain washers)	Iron, zinc plating	2	E3S-C (horizontal type) (25.4)	10
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) E3S-CR62/67 (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-L109	Stainless steel (SUS430)	1	---	---	---	E32-S15-□ (13.2)	
E39-L114	Stainless steel (SUS430)	2	Phillips screws M5 × 10	Iron, zinc plating	4	E3MC (28)	
E39-L115	Stainless steel (SUS304)	1	Phillips screws M5 × 8 Slotted/Phillips screws M3 × 8	Iron, zinc plating Iron, nickel plating	4 2	E3MC	
E39-L116	Stainless steel (SUS304)	1	---	---	---	E3T-S (9/15)	11
E39-L117	Stainless steel (SUS304)	1	---	---	---	E3T-S (9/15)	
E39-L118	Stainless steel (SUS304)	1	---	---	---	E3T-S (9/15)	
E39-L119	Stainless steel (SUS304)	1	---	---	---	E3T-F (8)	
E39-L120	Stainless steel (SUS304)	1	---	---	---	E3T-F (8)	
E39-L127-T1	Iron, zinc plating	1	Phillips screws M2.3 × 8 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.

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 Spring washer M4 Plain washer M4 Nuts M4	Stainless steel (SUS304) Stainless steel (SUS304) Stainless steel (SUS304) Stainless steel (SUS304)	2 2 2 2	E3G-R1□ (25) E3G-L7□ (25)	12
E39-L132	Stainless steel (SUS304)	1	Slotted/Phillips screws M4 × 25 Spring washer M4 Plain washer M4 Nuts M4	Stainless steel (SUS304) Stainless steel (SUS304) Stainless steel (SUS304) Stainless steel (SUS304)	2 2 2 2	E3G-R1□ (25) E3G-L7□ (25)	
E39-L135	Stainless steel (SUS304)	1	Slotted/Phillips screws M4 × 35 Spring washer M4 Plain washer M4 Nuts M4	Stainless steel (SUS304) Stainless steel (SUS304) Stainless steel (SUS304) Stainless steel (SUS304)	2 2 2 2	E3G-MR19 (T) E3G-ML79 (T)	
E39-L136	Stainless steel (SUS304)	1	Slotted/Phillips screws M4 × 35 Spring washer M4 Plain washer M4 Nuts M4	Stainless steel (SUS304) Stainless steel (SUS304) Stainless steel (SUS304) Stainless steel (SUS304)	2 2 2 2	E3G-MR19 (T) E3G-ML79 (T)	
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)	13
E39-L148	Stainless steel (SUS304)	1	None	---	---	E3X-NA	
E39-L149	Iron, black coating	1	None	---		E3Z-G	
E39-L150	Stainless steel (SUS304)	1	Holder/bracket Shaft (brace) Bolt with hexagonal hole Nut Phillips screw Slotted/Phillips screws	PBT (polybutylene 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)	
F39-L1	Iron, zinc plating	4	Phillips screws M4 × 20 Nuts M4	Brass, nickel-plated Brass, nickel-plated	8 8	F3W-B	
F39-L2	Iron, zinc plating	4	Phillips screws M4 × 25 Phillips screws M4 × 20 Nuts M4 Mounting Spacer	Brass, nickel-plated Brass, nickel-plated Brass, nickel-plated Heat-resistant ABS resin	8 8 8 4	F3W-B	
F39-L3	Iron, zinc plating	4	---	---	---	F3W-A	14
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	15
F39-L11	Iron	2	Phillips screws M4 × 15 Nuts M4	Iron Iron	4 4	F3W-D	
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 / Item / Model	Reflectors		Non-fogging reflective plate	Reflectors			Special Reflector for E3ZM-B
	E39-R1	**E39-R1S**	**E39-R1K**	**E39-R2**	**E39-R6**	**E39-R10**	**E39-RP1**
Directional angle	30° min. *1			30° min. *2	30° min.		
Ambient operating temperature range	–25 to 55°C						–40 to 60°C
Ambient storage temperature range	–40 to 70°C		–40 to 55°C	–40 to 70°C			
Ambient operating humidity range	35% to 85%					35% to 95%	35% to 85%
Ambient storage humidity range	35% to 95%						
Degree of protection	IEC IP67						
Accessories	---						

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

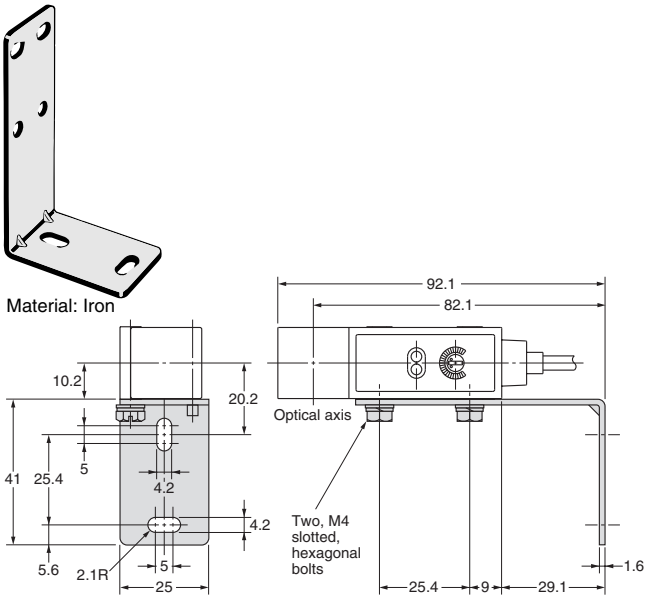
Name / Item / Model	Small reflector				Tape reflector		
	E39-R9	**E39-R3**	**E39-R4**	**E39-R37-CA**	**E39-RS1 E39-RS1-CA**	**E39-RS2 E39-RS2-CA**	**E39-RS3 E39-RS3-CA**
Directional angle	30° min.		2° to 20° min.	30° min.			
Ambient operating temperature range	–25 to 55°C						
Ambient storage temperature 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	---		

Name / Item / 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)				

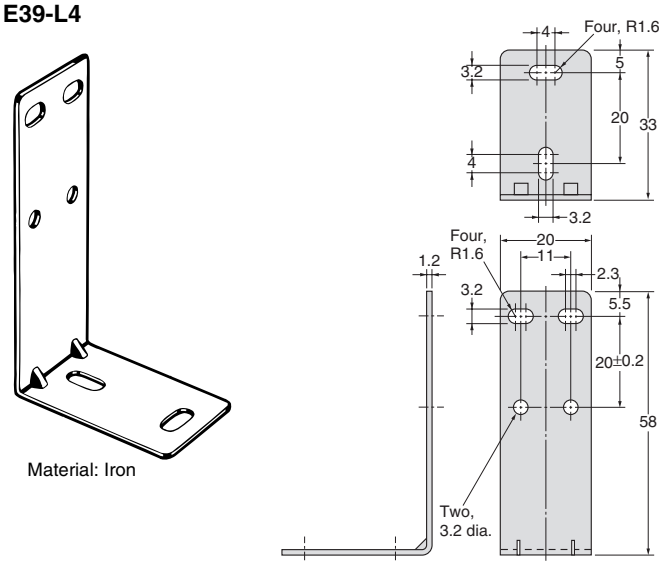
Mounting Bracket Dimensions

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

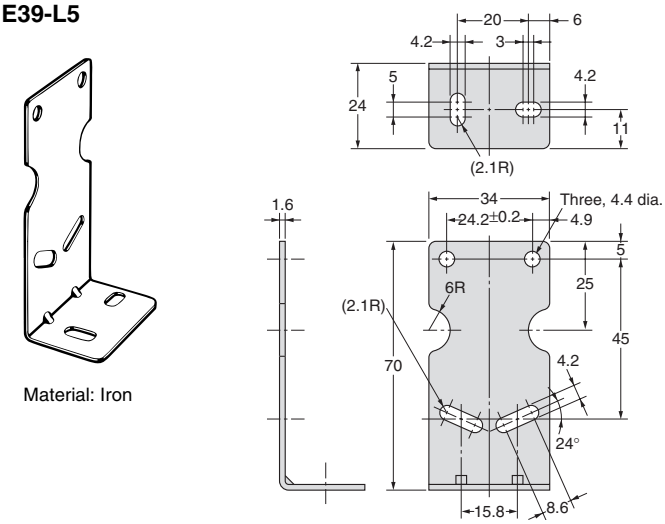
E39-L2



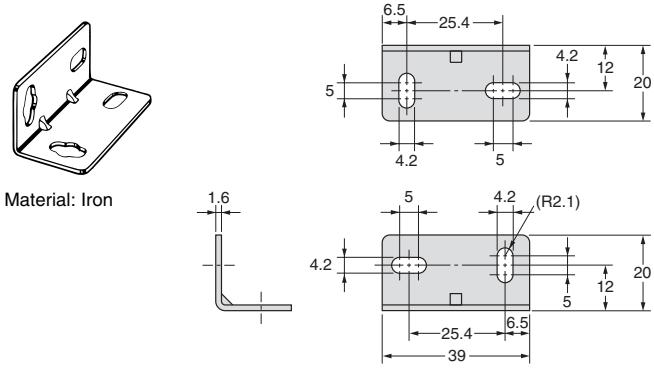
E39-L4



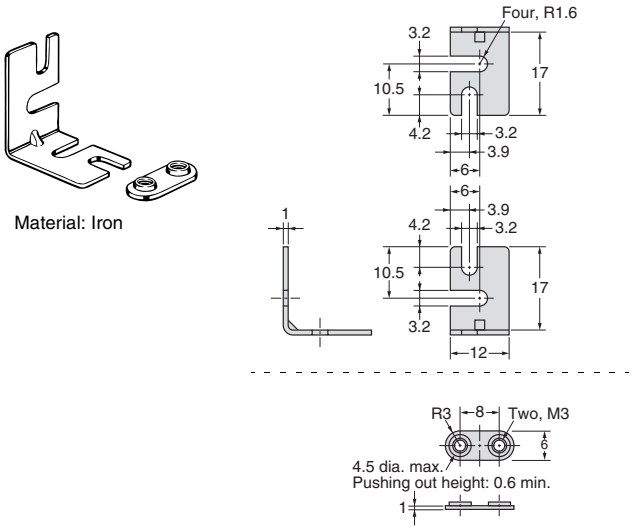
E39-L5



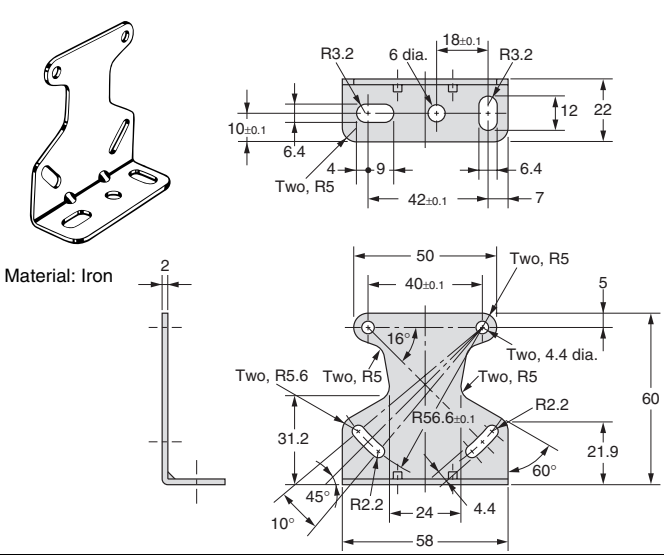
E39-L6



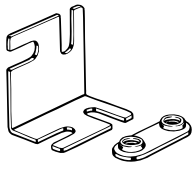
E39-L31



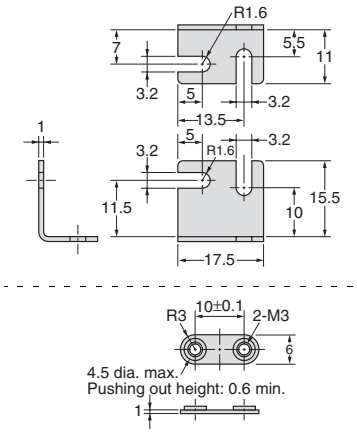
E39-L40



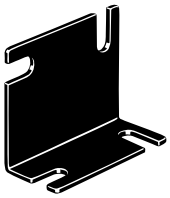
E39-L41



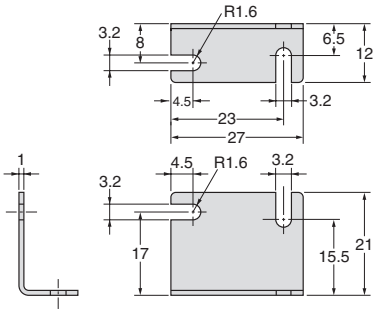
Material: Iron



E39-L42

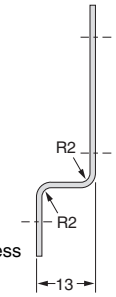


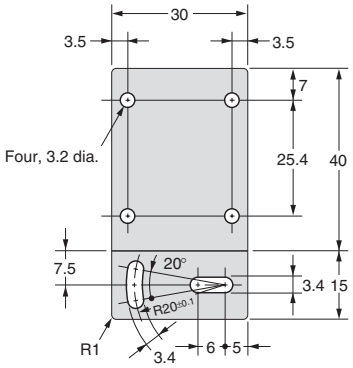
Material: Iron



E39-L43

Material: Stainless steel (SUS304)





E39-L44

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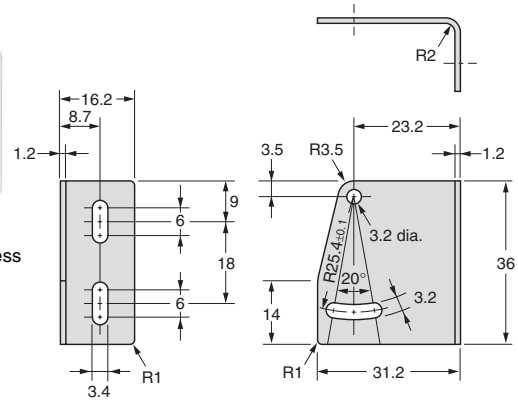
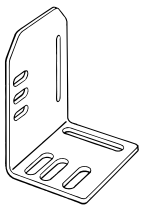
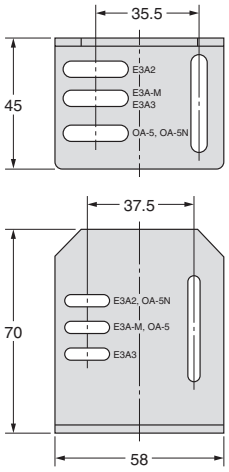


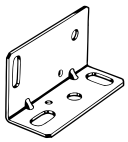
E39-L51



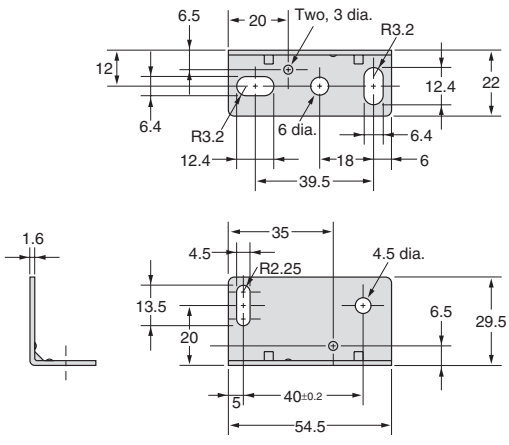
Material: Iron



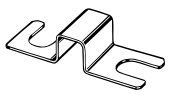
E39-L53



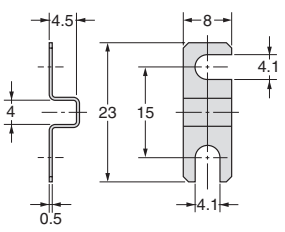
Material: Iron



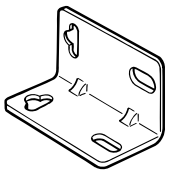
E39-L54V



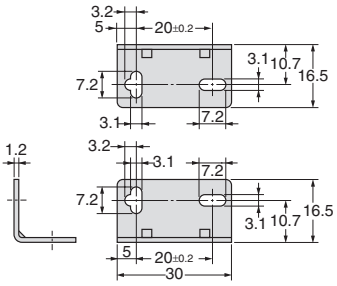
Material: Stainless steel (SUS304)



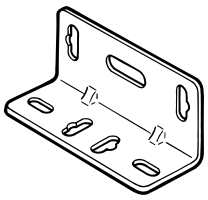
E39-L69



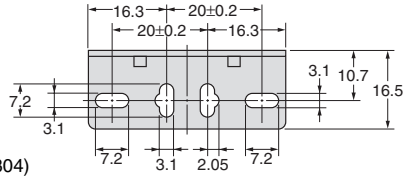
Material: Stainless steel (SUS304)

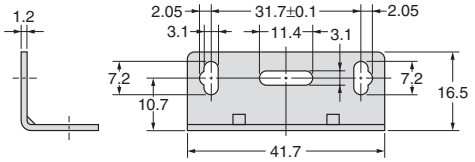


E39-L70

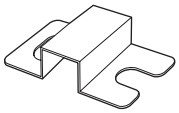


Material: Stainless steel (SUS304)

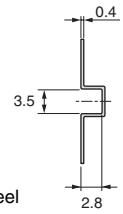


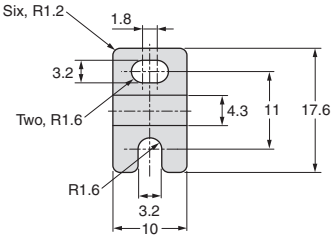


E39-L83

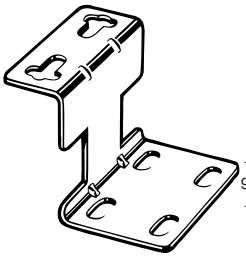


Material: Stainless steel

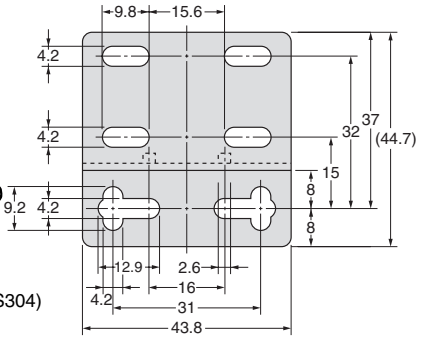


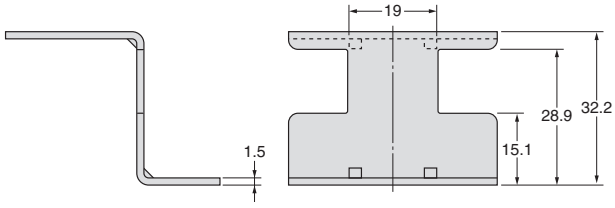


E39-L85

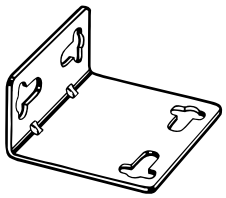


Material: Stainless steel (SUS304)

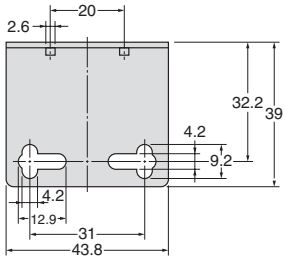


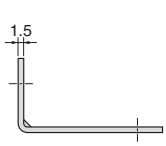


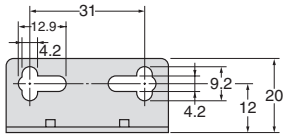
E39-L86



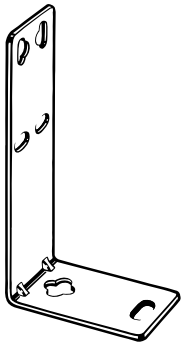
Material: Stainless steel (SUS304)



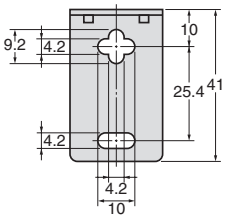


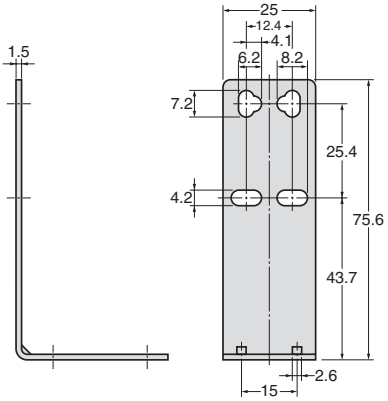


E39-L87

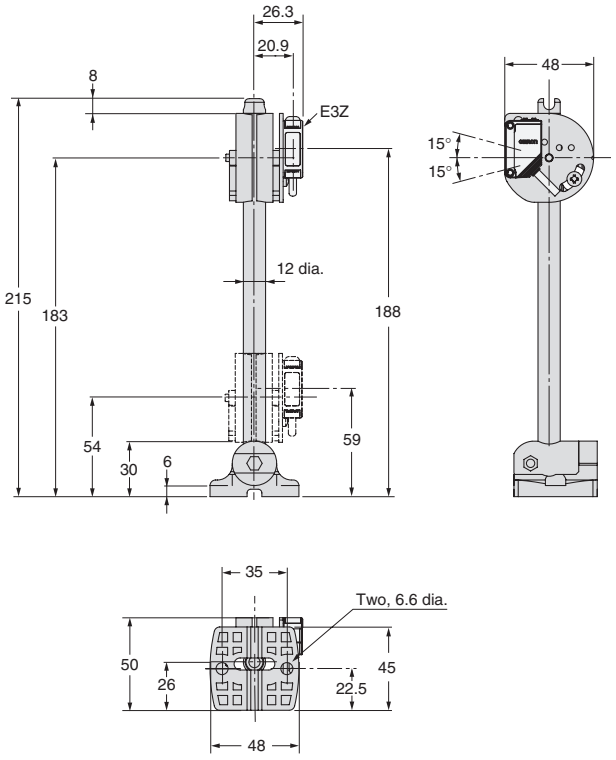


Material:
Stainless steel (SUS304)

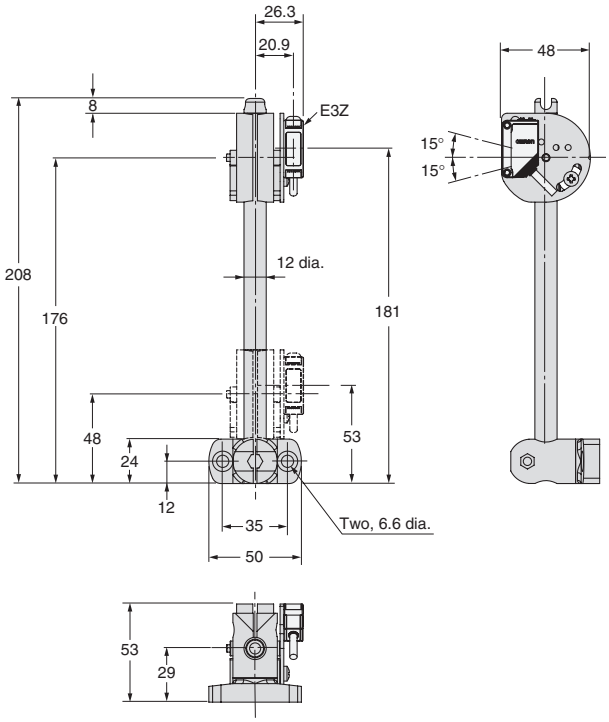




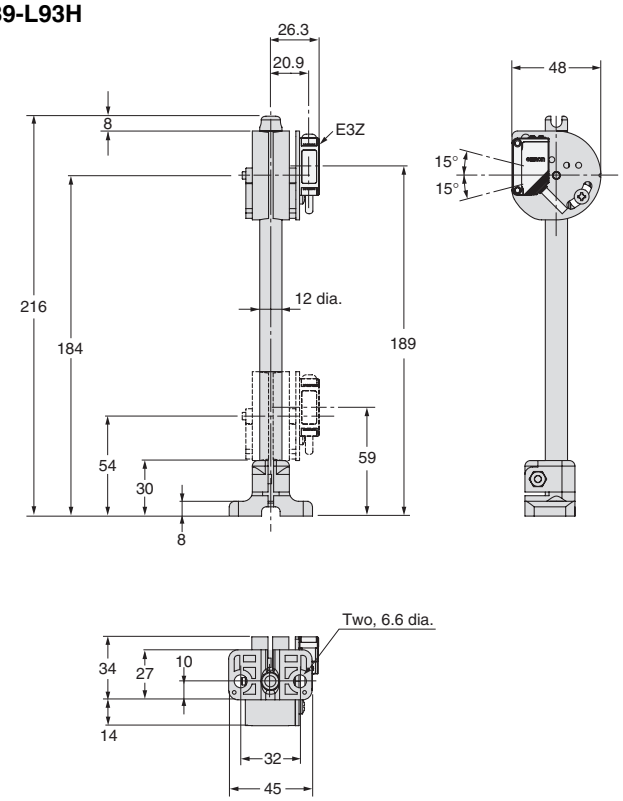
E39-L93FH



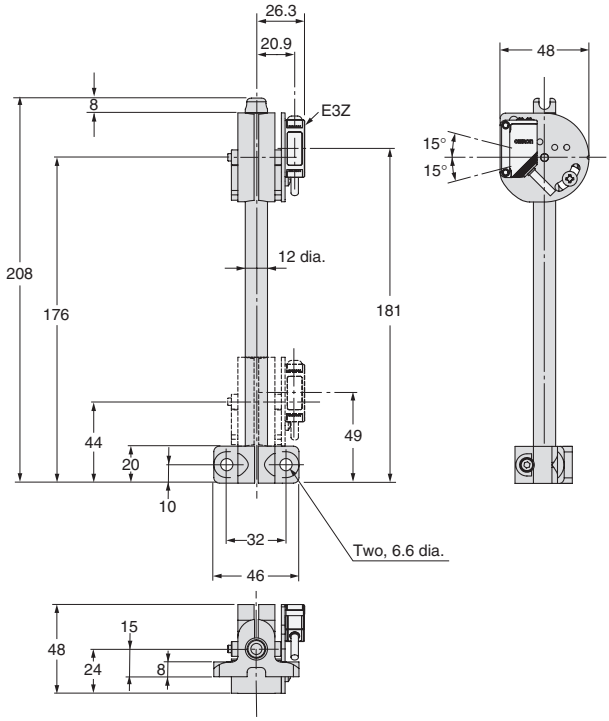
E39-L93FV



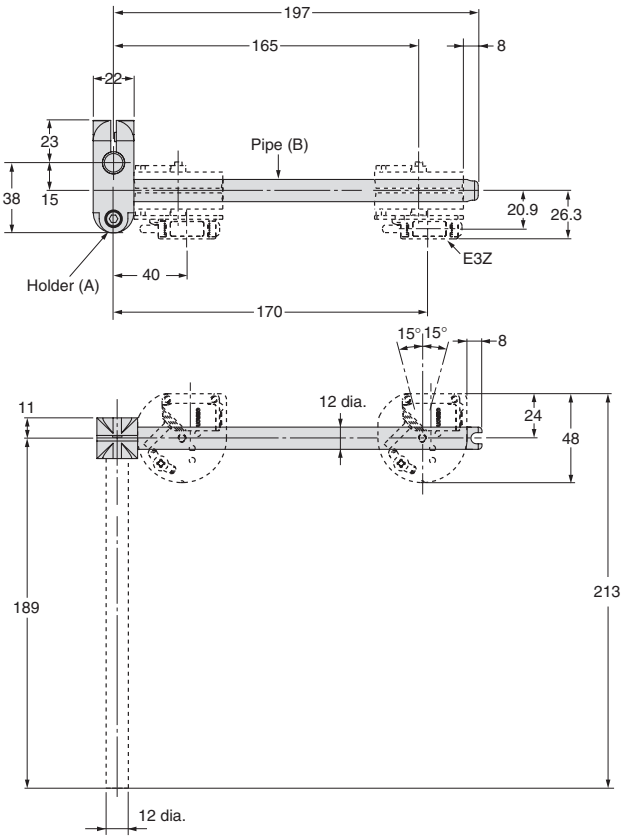
E39-L93H



E39-L93V

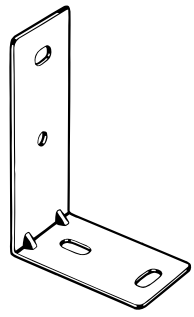


E39-L93XY

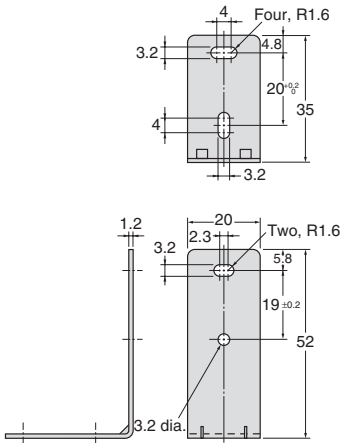


Note: The E39-L93XY consists of only the one joint holder (A) and pipe, and the two hexagonal bolts and nuts. It cannot be mounted to the Sensor alone.

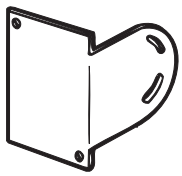
E39-L94

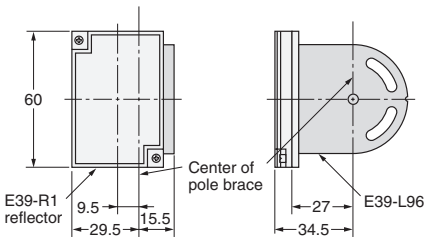


Material: Iron

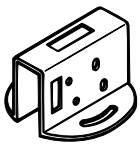


E39-L96

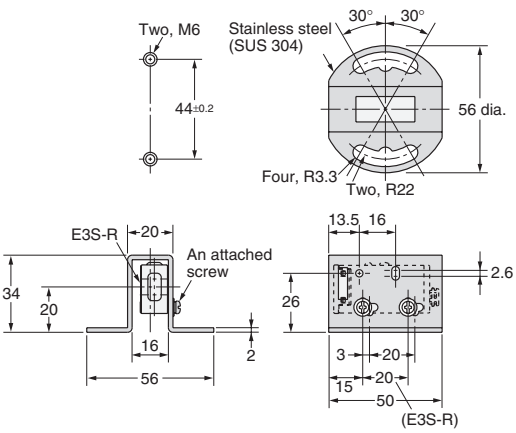




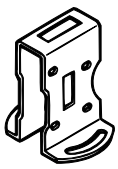
E39-L97



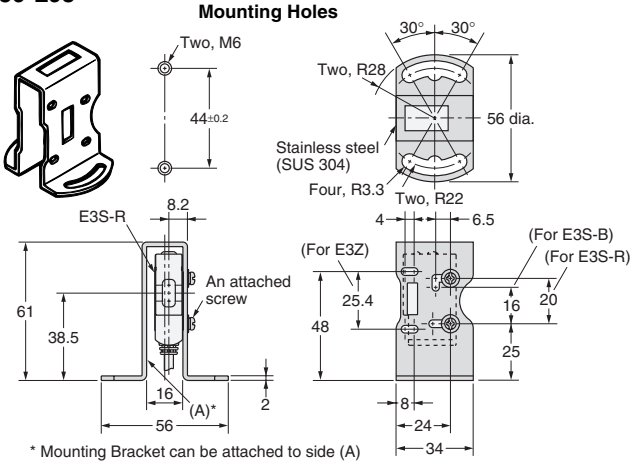
Mounting Holes



E39-L98

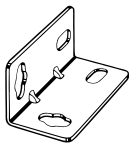


Mounting Holes

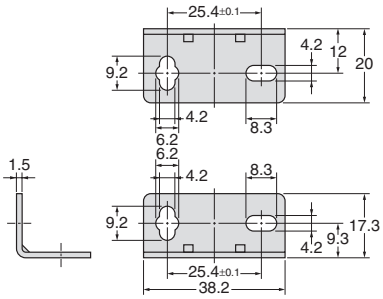


* Mounting Bracket can be attached to side (A)

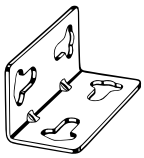
E39-L102



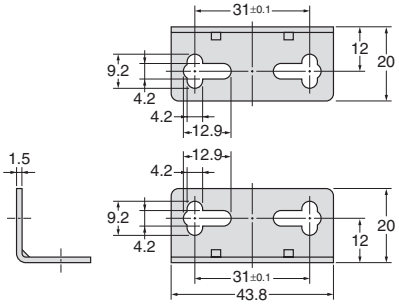
Material:
Stainless steel (SUS304)



E39-L103

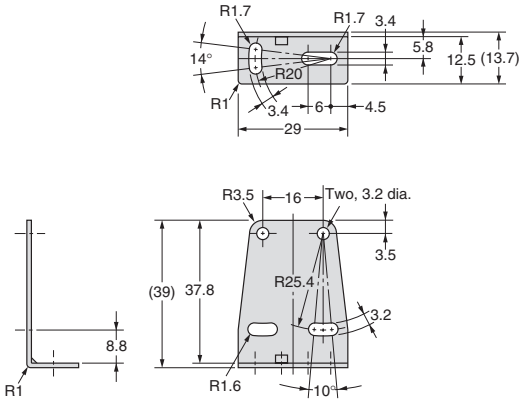


Material:
Stainless steel (SUS304)

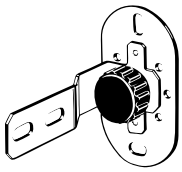


E39-L104

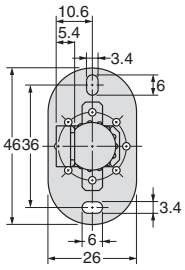
Material:
Stainless steel
(SUS304)



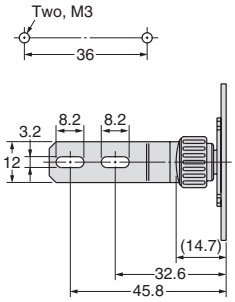
E39-L109



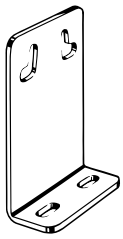
Material:
Stainless steel
(SUS430)



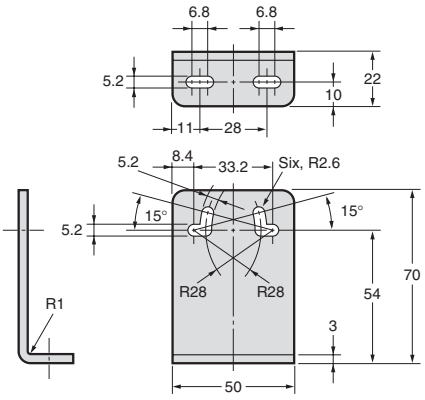
Mounting Holes



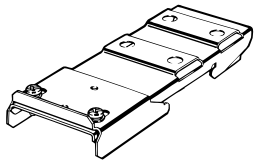
E39-L114

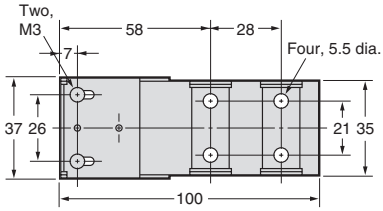


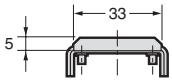
Material:
Stainless steel (SUS430)

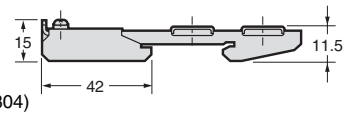


E39-L115



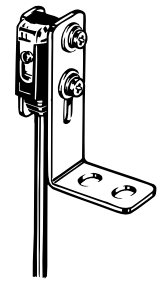


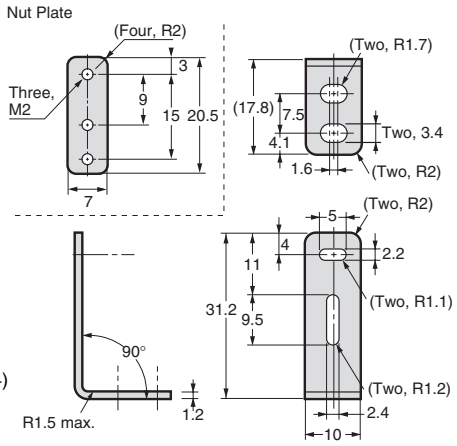




Material: Stainless steel (SUS304)

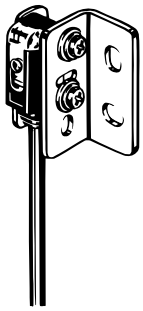
E39-L116

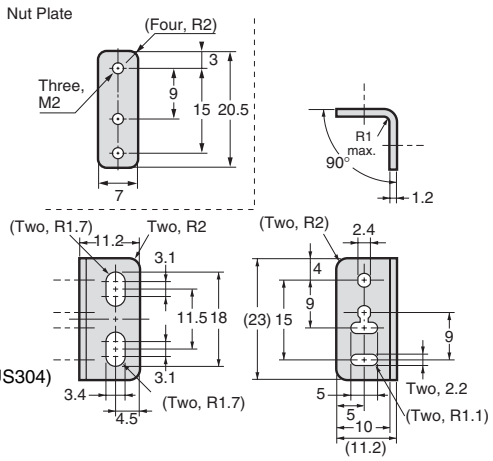




Material:
Stainless steel (SUS304)
1.2-mm-thick

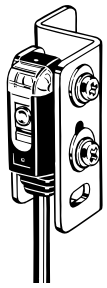
E39-L117

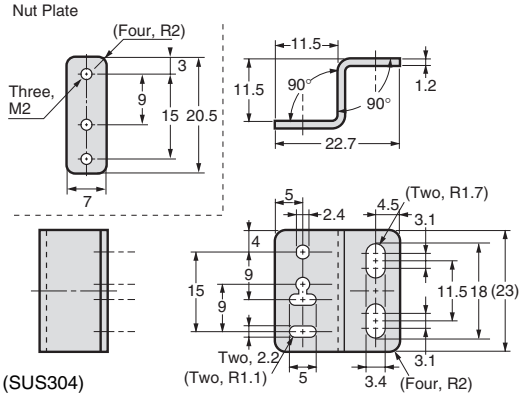




Material:
Stainless steel (SUS304)
1.2-mm-thick

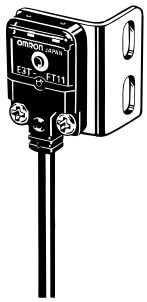
E39-L118

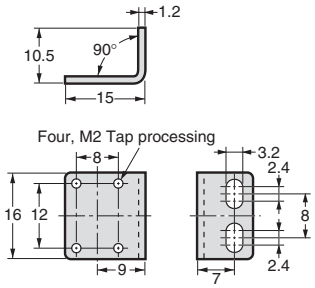




Material:
Stainless steel (SUS304)
1.2-mm-thick

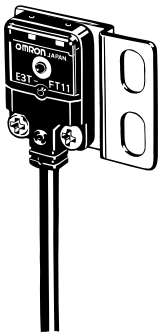
E39-L119

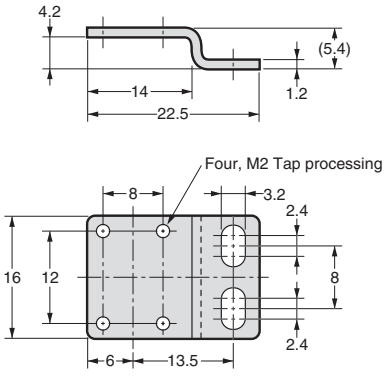




Material:
Stainless steel (SUS304)
1.2-mm-thick

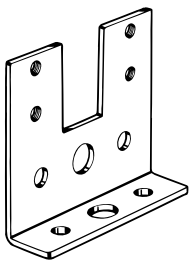
E39-L120

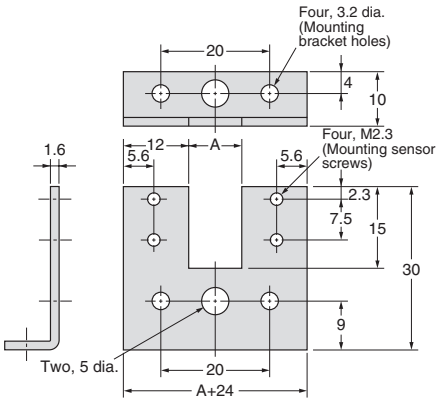




Material: Stainless steel (SUS304)
1.2-mm-thick

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

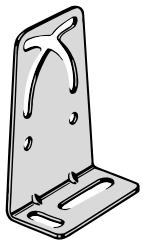


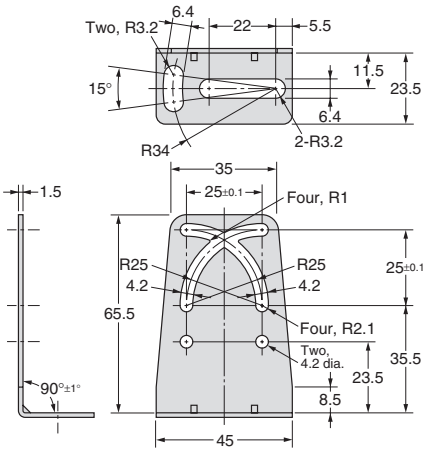


Material: Iron

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

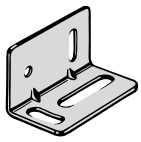
E39-L131

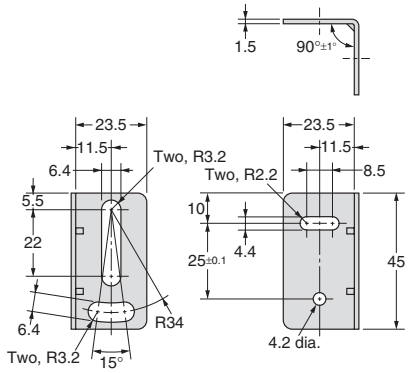




Material:
Stainless steel (SUS304)

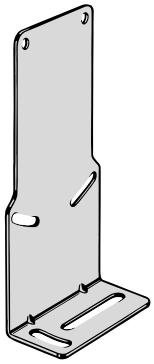
E39-L132

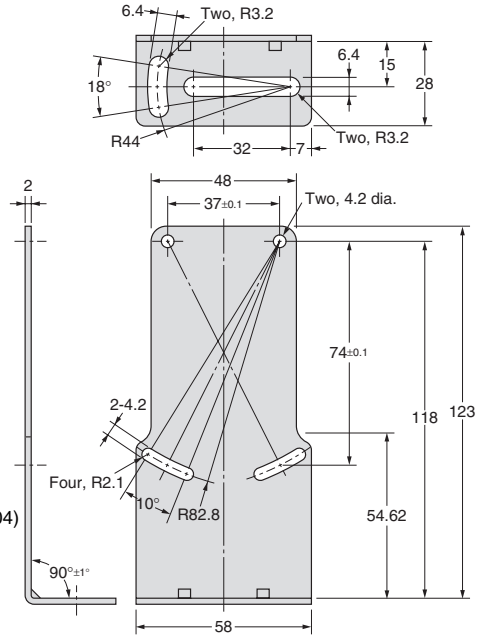




Material: Stainless steel (SUS304)

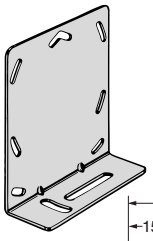
E39-L135

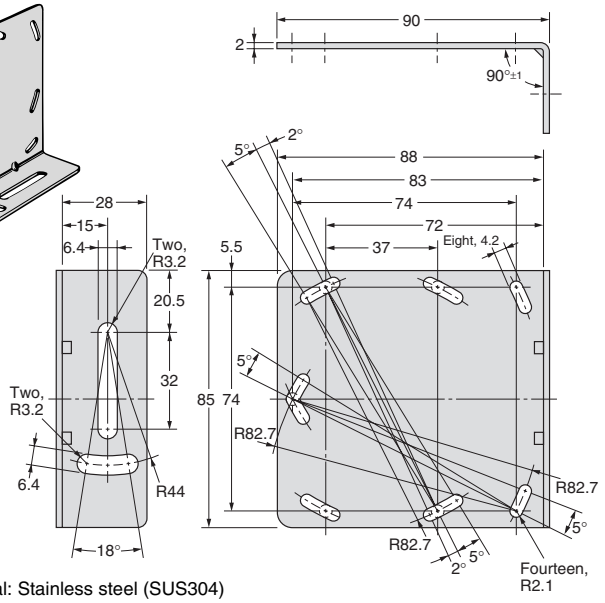




Material:
Stainless steel (SUS304)

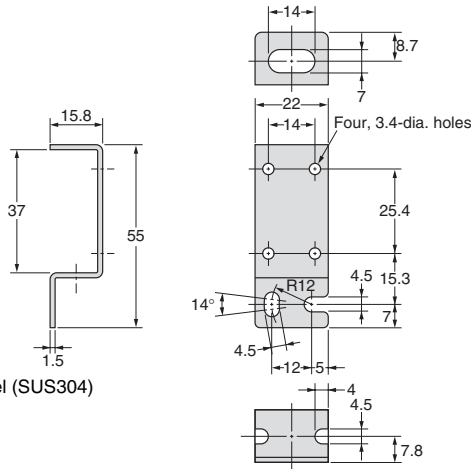
E39-L136





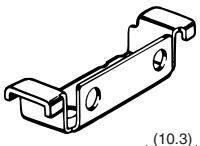
Material: Stainless steel (SUS304)

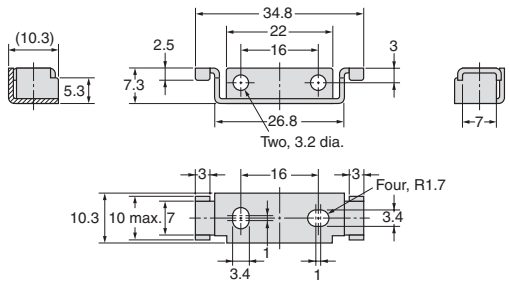
E39-L142



Material: Stainless steel (SUS304)

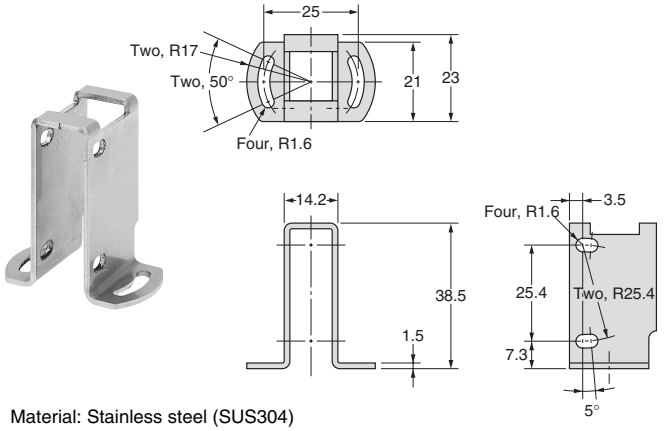
E39-L143





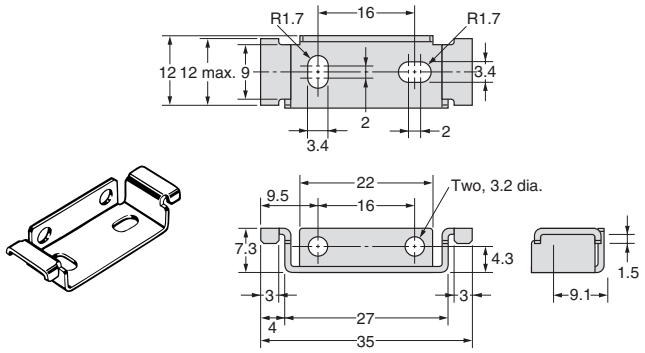
Material: Stainless steel (SUS304)

E39-L144



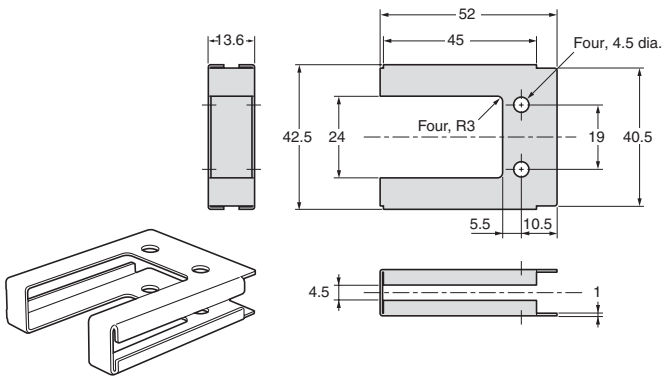
Material: Stainless steel (SUS304)

E39-L148

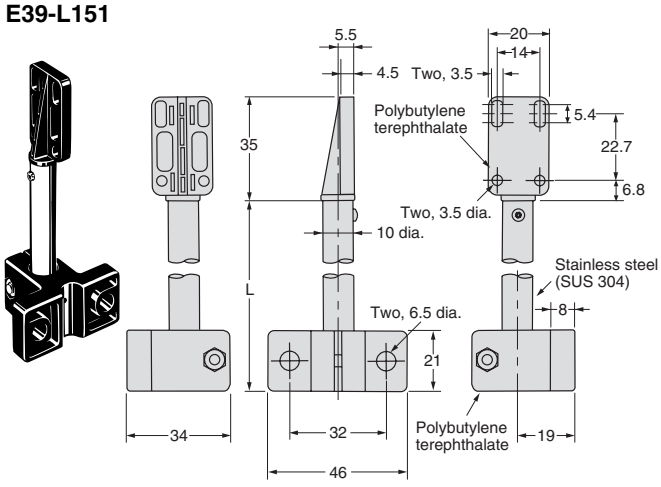


Material: Stainless steel (SUS304)

E39-L149



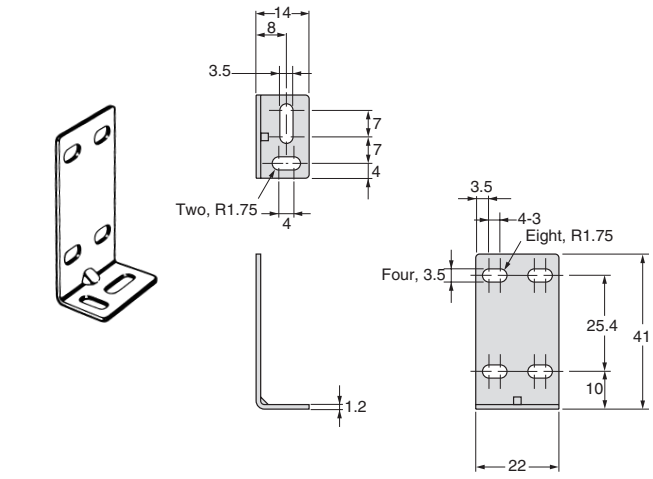
E39-L150
E39-L151



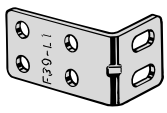
Length (mm)

Model	L
E39-L150	65
E39-L151	165

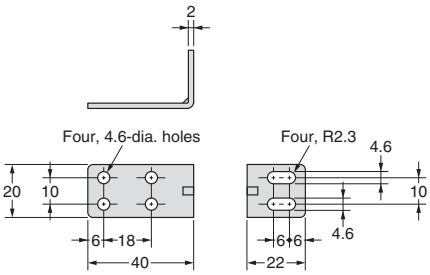
E39-L153



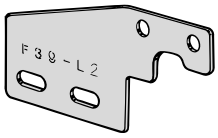
F39-L1



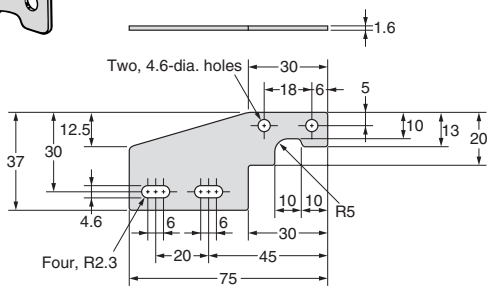
Material: Iron



F39-L2

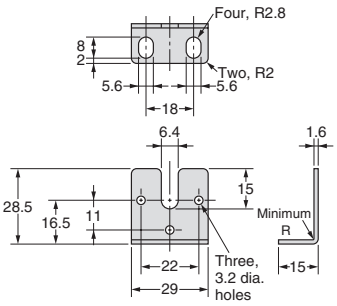


Material: Iron

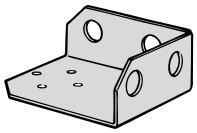


F39-L3

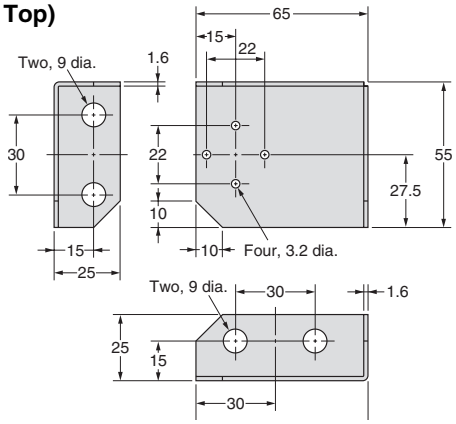
Material: Iron



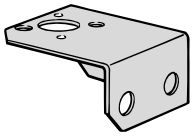
F39-L4
C Type (Receiver, Top)



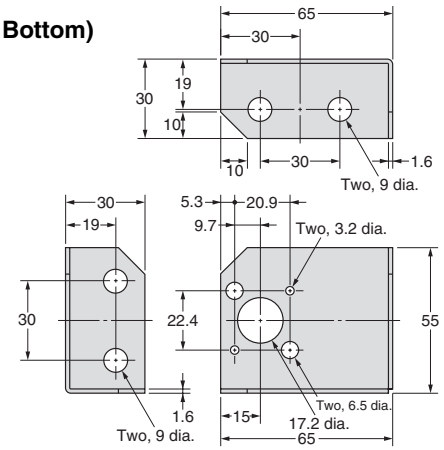
Material: Iron



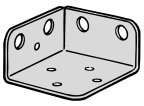
F39-L4
D Type (Receiver, Bottom)



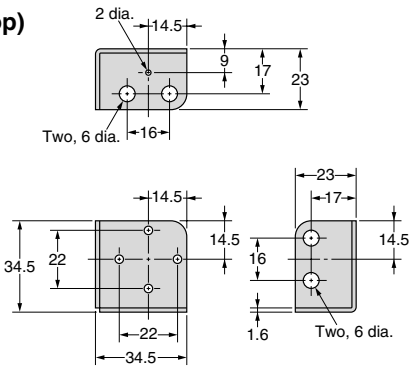
Material: Iron



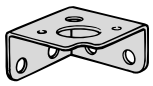
F39-L5
A Type (Emitter, Top)



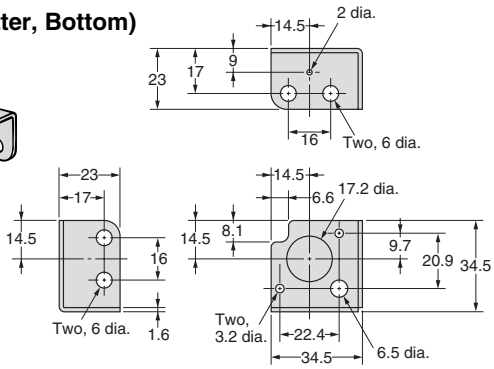
Material: Iron



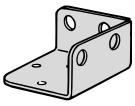
F39-L5
B Type (Emitter, Bottom)



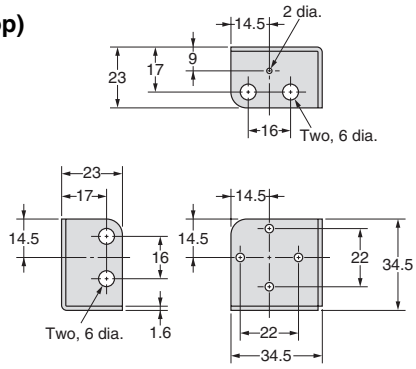
Material: Iron



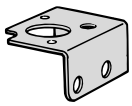
F39-L5
C Type (Receiver, Top)



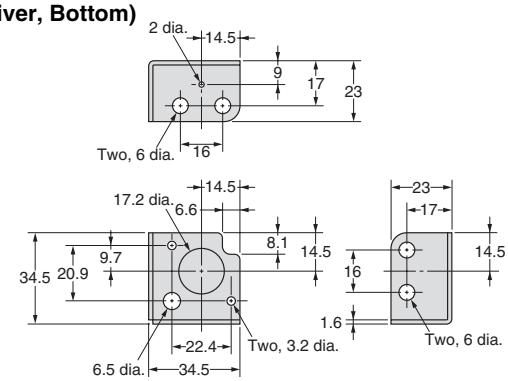
Material: Iron



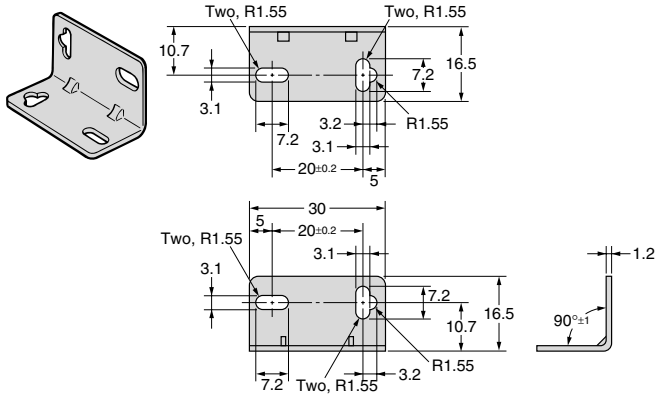
F39-L5
D Type (Receiver, Bottom)



Material: Iron

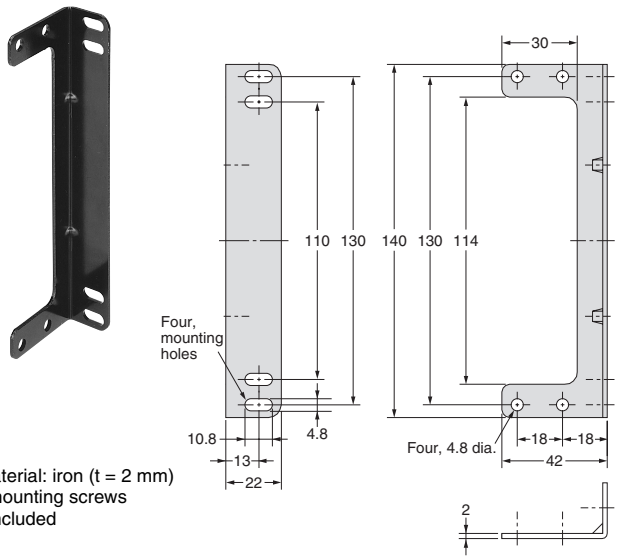


F39-L9



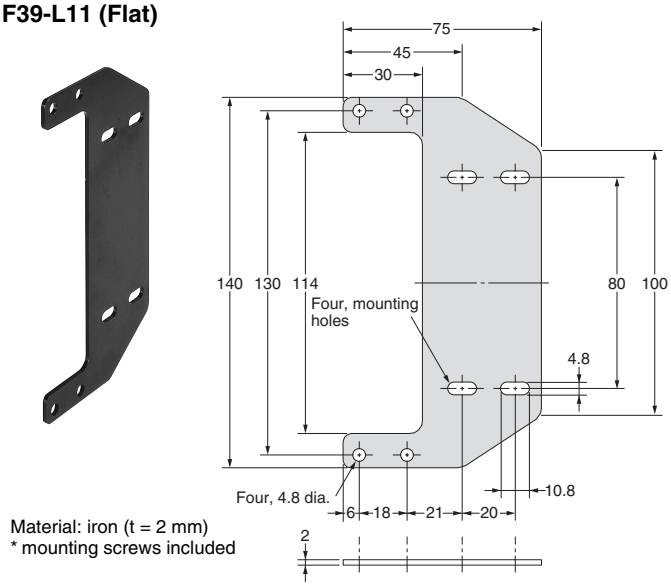
Material: Stainless steel (SUS304-CP)

F39-L10 (L-shaped)



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

F39-L11 (Flat)

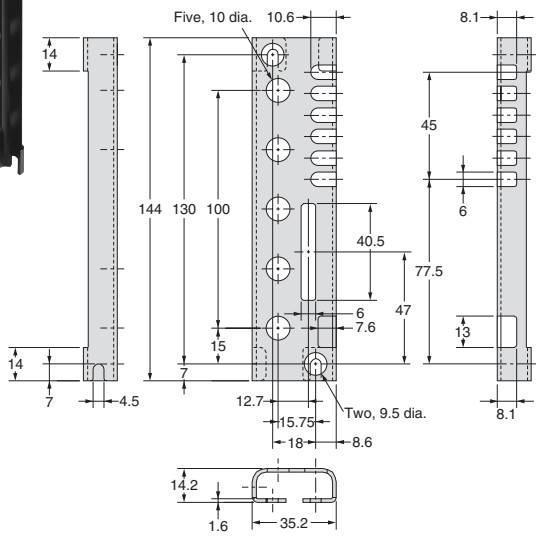


Material: iron (t = 2 mm)
* mounting screws included

F39-L12 (Receiver)

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

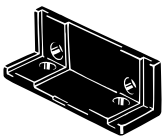
Note: The Receiver sees a mirror-image of the Emitter.

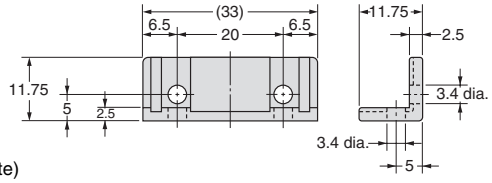


Contact Mounting Plate

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

E39-L60





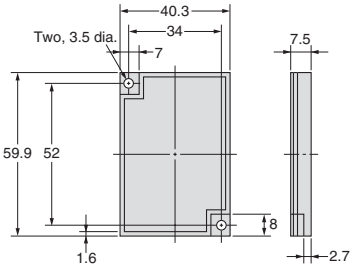
Material: PBT (polybutylene terephthalate)

Reflector dimensions

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

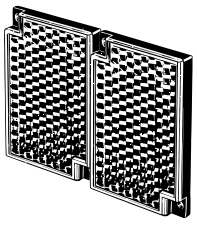
E39-R1
E39-R1S
E39-R1K *

Material,
reflective surface: acrylic
Rear surface: ABS

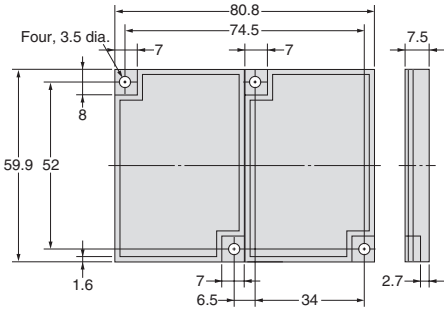


* E39-R1K only
Coating on reflective surface

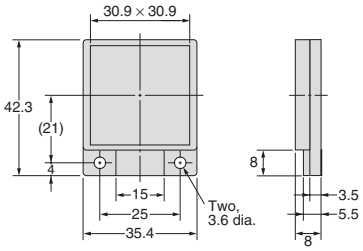
E39-R2



Material,
reflective surface: acrylic
Rear surface: ABS

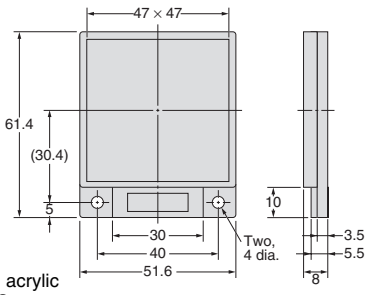


E39-R9



Material,
reflective surface: acrylic
Rear surface: ABS

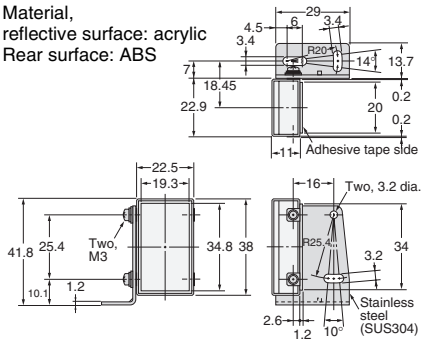
E39-R10



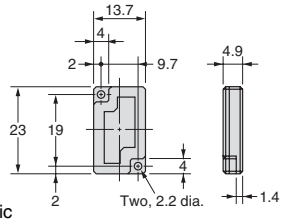
Material,
reflective surface: acrylic
Rear surface: ABS

E39-R3

Material,
reflective surface: acrylic
Rear surface: ABS

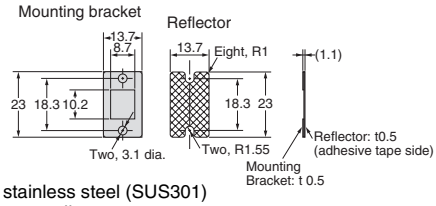


E39-R4



Material,
reflective surface: acrylic
Rear surface: ABS

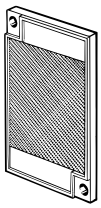
E39-R37-CA



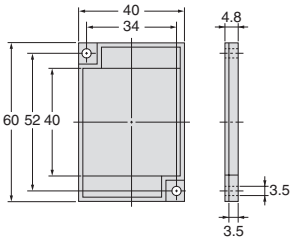
Material:
Mounting plate: stainless steel (SUS301)
Reflective surface: acrylic

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

E39-R6

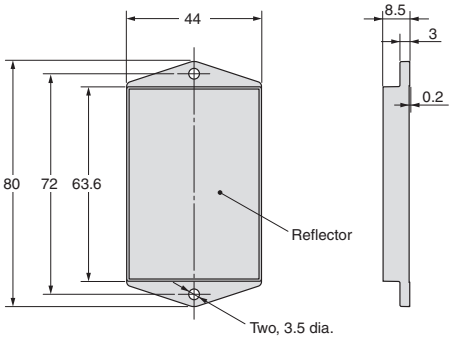


Material,
reflective surface: acrylic
Rear surface: ABS

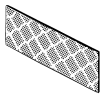


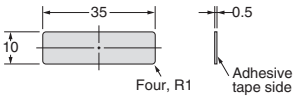
Retroreflector for E3ZM-B

E39-RP1



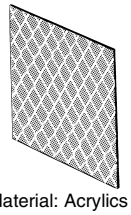
E39-RS1
E39-RS1-CA

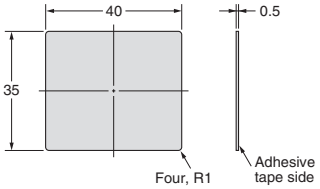




Material: Acrylics

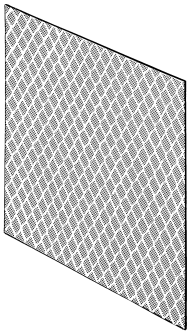
E39-RS2
E39-RS2-CA

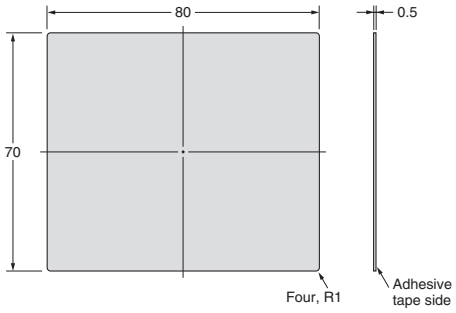




Material: Acrylics

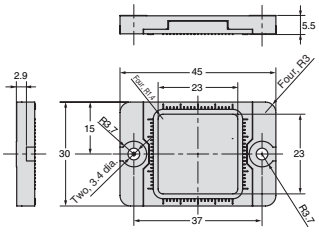
E39-RS3
E39-RS3-CA



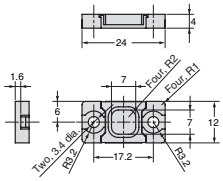


Material: Acrylics

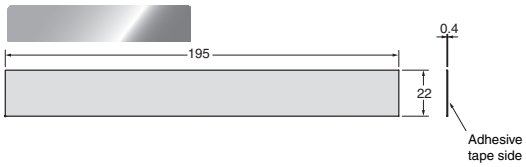
E39-R12/R14



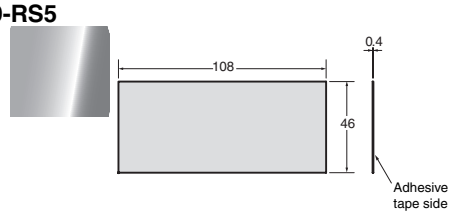
E39-R13



E39-RS4



E39-RS5

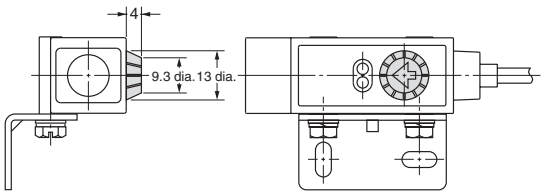


Sensitivity Adjuster

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

E39-G1

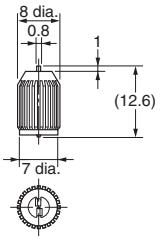
Material: Polycarbonate



Sensitivity Adjustment Driver

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

E39-G2

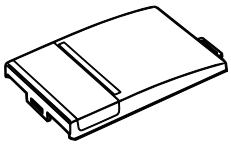


Material: Polycarbonate

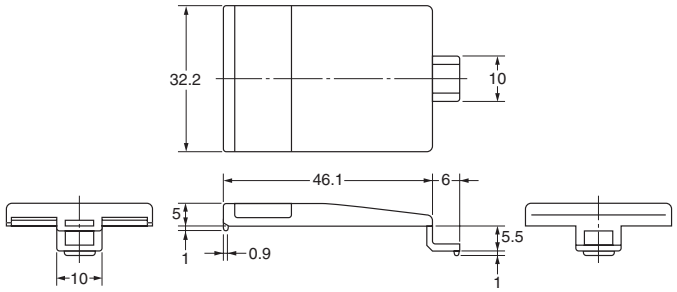
Protective Cover

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

E39-G9



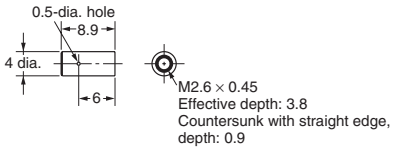
Material: Polycarbonate



Lens Unit

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

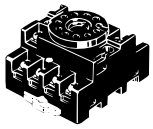
E39-F1V

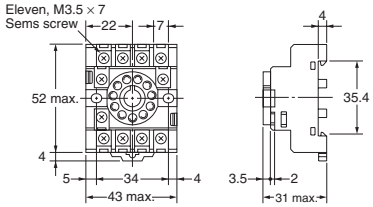


Connection Sockets

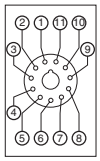
(Unit: mm)
Tolerance class IT16 applies to dimensions in this datasheet unless otherwise specified.

Front Connection Socket PF113A

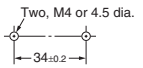




Terminal arrangement/Internal connections (top view)

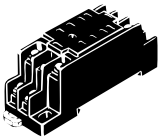


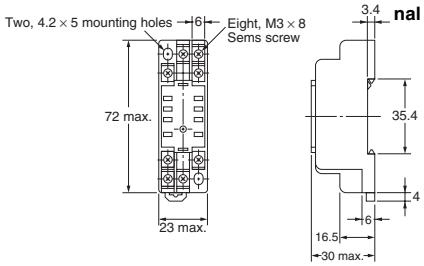
Mounting Holes



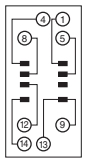
Note: Rail mounting also possible.

Front Connection Socket PYF08A

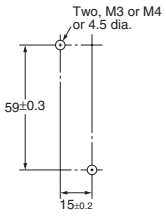




Terminal arrangement/Internal connections (top view)

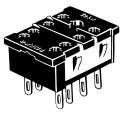


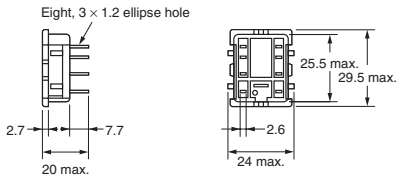
Mounting Holes



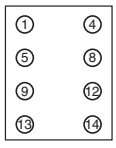
Note: Rail mounting also possible.

Front Connection Socket PY08

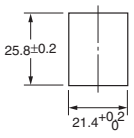




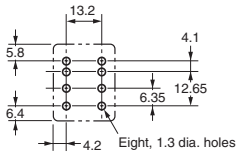
Terminal arrangement/Internal connections (bottom view)



Mounting Holes



PCB Cutout Dimensions



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2008.11

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Industrial Automation Company

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