CSM_E39-L_F39-L_E39-S_E39-R_DS_E_15_1

Mounting Brackets [Refer to Dimensions on page 5.]

	Fitting		Acc	Applicable sensor	Page			
Model	materials	Count	Description	Material	Count	(mounting pitch on sensor side)	Dimensions	
E39-L2	Iron, zinc plating	1	Hexagonal bolts M4 \times 12 (with spring and plain washers)	Iron, zinc plating	2	E3S-RS30E4□ (25.4) E3S-R1E4□ (25.4)		
E39-L4	Iron, zinc plating	1	Slotted/Phillips screws M3 × 12 (with spring and plain washers)	Iron, zinc plating	2	E32-T16 (20)		
E39-L6	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-L31	Iron, zinc plating	1	Slotted/Phillips screws, M3 \times 12 (with spring washers)	Iron, zinc plating	2	E3C-S50 (8)		
E39-L40	Iron, zinc plating	1	Phillips screws M4 × 25 (with spring and plain washers)	Iron, zinc plating	2	E3JK		
			Nuts M4	Iron, zinc plating	2			
E39-L41	Iron, zinc plating	2	Phillips screws M3 × 14 (with spring washers)	Iron, zinc plating	4	E3C-1 (10)		
			Plain washer M3	Iron, zinc plating	4			
E39-L42	Iron,	2	Phillips screws M3 × 10 (with spring washers)	Iron, zinc plating	4	E3C-2 (20) E3C-DS10 (19)		
	black coating		Plain washer M3	Iron, zinc plating	4	E3C-VS1G (19) E3C-VS3R (19)		
E39-L43	Stainless steel (SUS304)	1	Slotted/Phillips screws M3 × 8 (with spring and plain washers)	Stainless steel (SUS304)	2	E3Z pre-wired model (25.4)	6	
E39-L44	Stainless steel (SUS304)	1	Slotted/Phillips screws M3 × 8 (with spring and plain washers)	Stainless steel (SUS304)	2	E3Z pre-wired model (25.4)		
E39-L51	Iron, zinc plating	1	Slotted/Phillips screws M4 × 30 (with spring and plain washers) Nuts M4	Iron, zinc plating Iron, nickel plating	2 2	E3JM (40)		
E39-L53	Iron, zinc plating	1				E3JM (40)		
E39-L54V	Stainless steel (SUS304)	1				E32-T54V		
E39-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	6	
E39-L85	Stainless steel (SUS304)	1	Hexagonal bolts M4 \times 12 (with spring and plain washers)	Iron, zinc plating	2	E3S-C (25.4)		
E39-L86	Stainless steel (SUS304)	1	Hexagonal bolts M4 \times 12 (with spring and plain washers)	Iron, zinc plating	2	E3S-C (25.4)		
E39-L87	Stainless steel (SUS304)	1	Hexagonal bolts $M4 \times 12$ (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.

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Marti	Fitting		Acce	Applicable sensor	Page		
Model	materials	Count	Description	Material	Count	(mounting pitch on sensor side)	Dimensions
	0		Holder (upper)	Heat-resistant ABS resin	1	,	
E39-L93FH	Stainless steel (SUS304)	1	Holder (lower)	66 nylon	1		
	(303304)		Pipe	Stainless steel (SUS304)	1		
			Bolts M4 × 12 with Hexagonal	Iron, nickel plating	2		
E39-L93FV	Stainless steel	1	holes	, ,		E3Z (25.4)	
	(SUS304)		Bolts M4 × 30 with hexagonal	Iron, nickel plating	1	E3S-R1□/R3□	
			holes	g		/R6□/R8□ (20)	8
E39-L93H	Stainless steel	1	Phillips screws M3 × 12	Stainless steel (SUS304)	2	E39-R1/E39-R3	
	(SUS304)		(with spring and plain washers)	,			
			Spring washer M4	Iron, nickel plating	1		
E39-L93V	Stainless steel	1	Plain washer M4	Iron, nickel plating	1		
	(SUS304)		Nuts M4	Iron, nickel plating	3		
			Holder	66 nylon	1	E3Z (25.4)	
			Pipe	Stainless steel (SUS304)	1	E3S-R1 /R3	
E39-L93XY			Bolts M5 × 16 with hexagonal holes	Stainless steel (SUS304)	2	/R6□/R8□ (20)	
			Nuts M5	Stainless steel (SUS304)	2	E39-R1/E39-R3	
			Phillips screws M3 × 10	Iron, zinc plating	4		
E39-L94	Iron, zinc plating	2	Nuts M3	Iron, zinc plating	4	E32-T16P (19)	
E39-L96			Nuts Wis	non, zine plating	7		-
* For installation							9
of Sensor	Stainless steel	1	Phillips screws M3 × 6	Iron, nickel plating	2	E39-R1	9
Adjuster E39-	(SUS304)	-	(with spring and plain washers)	g			
L93							
E39-L97	Stainless steel	1	Slotted/Phillips screws M3 × 12	Stainless steel (SUS304)	2	E3S-R1□/R3□ (20)	
E39-E91	(SUS304)	1	(with spring and plain washers)	Stairliess steel (303304)		E33-H1L/H3L (20)	
	Stainless steel		Slotted/Phillips screws M3 × 12			E3Z pre-wired model	
E39-L98	(SUS304)	1	(with spring and plain washers)	Stainless steel (SUS304)	2	(25.4)	
	` '		,			E3S-R6□/R8□ (20)	
E39-L102	Stainless steel	1	Hexagonal bolts M4 × 12	Iron, zinc plating	2	E3S-C (horizontal type)	
	(SUS304)		(with spring and plain washers)	, ,		(25.4)	
E39-L103	Stainless steel (SUS304)	1	Hexagonal bolts $M4 \times 12$ (with spring and plain washers)	Iron, zinc plating	2	E3S-C (vertical type) (25.4) E3S-CR62/67 (25.4)	
	(303304)		(With Spring and plain washers)			E3Z pre-wired model	
	Stainless steel	Stainless steel (SUS304)	Slotted/Phillips screws M3 × 8 (with spring and plain washers)			(25.4)	
E39-L104				Stainless steel (SUS304)	2	E32-R21 (for installation of	
	(,		(· · · · · · · · · · · · · · · · · · ·			E39-R3) (25.4)	10
E39-L109	Stainless steel	1				E32-S15- (13.2)	
E39-L109	(SUS430)	'				E32-315-\(\(\)(13.2)	
E39-L114	Stainless steel	2	Phillips screws M5 × 10	Iron, zinc plating	4	E3MC (28)	
200 2111	(SUS430)	_	·			20110 (20)	
E39-L115	Stainless steel	1	Phillips screws M5 × 8	Iron, zinc plating	4	E3MC	
	(SUS304)	-	Slotted/Phillips screws M3 × 8	Iron, nickel plating	2		
E39-L116	Stainless steel	1				E3T-S (9/15)	
	(SUS304)					` '	
E39-L117	Stainless steel (SUS304)	1				E3T-S (9/15)	
	Stainless steel						-
E39-L118	(SUS304)	1				E3T-S (9/15)	
	Stainless steel						
E39-L119	(SUS304)	1				E3T-F (8)	
E20 I 100	Stainless steel	-				E3T E (0)	11
E39-L120	(SUS304)	1				E3T-F (8)	
E39-L127-T1	Iron, zinc plating	1	Phillips screws M2.3 × 8	Iron, zinc plating	4		
L35-L12/-11	non, zinc piaung	'	Spring washer M2.3	Iron, zinc plating	4		
E20 107 T2	Iron zinc alatin-	1	Phillips screws M2.3 × 8	Iron, zinc plating	4	E2C S10 (7.5)	
E39-L127-T2	Iron, zinc plating	'	Spring washer M2.3	Iron, zinc plating	4	E3C-S10 (7.5)	
E39-L127-T3	Iron, zinc plating	1	Phillips screws M2.3 × 8	Iron, zinc plating	4		
	uron zine niatina	. 1			4		1

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

	Fitting		Acc		Applicable sensor	Page	
Model	materials	Count	Description	Material	Count	(mounting pitch on sensor side)	Dimensions
			Slotted/Phillips screws M4 × 25	Stainless steel (SUS304)	2		
E39-L131	Stainless steel	1	Spring washer M4	Stainless steel (SUS304)	2	E3G-R1□ (25)	
E39-L131	(SUS304)) '	Plain washer M4	Stainless steel (SUS304)	2	E3G-L7□ (25)	
			Nuts M4	Stainless steel (SUS304)	2		
E39-L132			Slotted/Phillips screws M4 × 25	Stainless steel (SUS304)	2		
	Stainless steel	1	Spring washer M4	Stainless steel (SUS304)	2	E3G-R1□ (25)	
	(SUS304)	'	Plain washer M4	Stainless steel (SUS304)	2	E3G-L7□ (25)	
			Nuts M4	Stainless steel (SUS304)	2		
			Slotted/Phillips screws M4 × 35	Stainless steel (SUS304)	2		
E39-L135	Stainless steel	1	Spring washer M4	Stainless steel (SUS304)	2	E3G-MR19 (T)	
E39-L135	(SUS304)	'	Plain washer M4	Stainless steel (SUS304)	2	E3G-ML79 (T)	
			Nuts M4	Stainless steel (SUS304)	2		12
			Slotted/Phillips screws M4 × 35	Stainless steel (SUS304)	2		
E39-L136	Stainless steel	_	Spring washer M4	Stainless steel (SUS304)	2	E3G-MR19 (T) E3G-ML79 (T)	
	(SUS304)	1	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 E4C-UDA	
E39-L144	Stainless steel (SUS304)	1	Slotted/Phillips screws M3 × 12 (with spring and plain washers)	Stainless steel (SUS304)	2	E3Z pre-wired model (25.4)	
E39-L148	Stainless steel (SUS304)	1	None			E3X-NA	
E39-L149	Iron, black coating	1	None			E3Z-G	
			Holder/bracket	PBT (polybutylene terephthalate)	1		
	0		Shaft (brace)	Stainless steel (SUS304)	1	E3Z (25.4)	
E39-L150	Stainless steel (SUS304)	1	Bolt with hexagonal hole	Stainless steel (SUSXM7)	1	E3S-R6□/R8□ (20)	
	(303304)		Nut	Stainless steel (SUS304)	1	E39-R3	
			Phillips screw	Stainless steel (SUSXM7)	1		13
			Slotted/Phillips screws	Stainless steel (SUS304)	2		
			Holder/bracket	PBT (polybutylene tereph- thalate)	1		
			Shaft (brace)	Stainless steel (SUS304)	1	E3Z (25.4)	
E39-L151	Stainless steel	1	Bolt with hexagonal hole	Stainless steel (SUSXM7)	1	E3S-R6□/R8□ (20)	
·	(SUS304)	,	Nut	Stainless steel (SUS304)	1	E39-R3	
			Phillips screw	Stainless steel (SUSXM7)	1		
			Slotted/Phillips screws	Stainless steel (SUS304)	2		
= 00 1 / = 0	Stainless steel		Slotted/Phillips screws M3 × 8	Stainless steel (SUSXM7)		E3Z pre-wired model	=
E39-L153	(SUS304)	1	(with spring and plain washers)	Stainless steel (SUS304)	2	(25.4)	

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

Contact Mounting Plates [Refer to Dimensions on page 13.]

Model	Material	Count	Applicable type	Page Dimensions
E39-L60	PBT (polybutylene terephthalate)	1	E3S-R□6	13

Note:

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

Slits

Model	Slit width	Installation procedure	Applicable type	
E39-S39	Width 1 × 20 mm	Seal type	E3JM-10□4 (T)-N E3JK-5□□-N	
E39-S60	Width 0.5, 1 × 15 mm	Seal type	E32-T16	
E39-S61	Width 0.5, 1, 2, 4 × 11 mm		E3S-CT□1	
E39-S63	0.5-mm dia., 1 mm		E3T-ST1□	
E39-S64	0.5-mm dia., 1 mm		E3T-FT1□	
E39-S65A	0.5 mm dia.			
E39-S65B	1-mm dia.	Plug-in type		
E39-S65C	2-mm dia.		E3Z-T□□	
E39-S65D	Width 0.5 × 10 mm			
E39-S65E	Width 1 × 10 mm			
E39-S65F	Width 2 × 10 mm			
E39-S68	Width 0.5, 1 × 13.4 mm	Seal type	E32-T16P E32-T16PR	

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

Reflectors (Refer to Dimensions on page 14.)

	Name	Reflectors		Non-fogging reflective plate	Reflectors			Special Reflec- tor for E3ZM-B	
Item	Model	E39-R1	E39-R1S	E39-R1K	E39-R2	E39-R2 E39-R6 E39-R10			
Directional ang	Directional angle 30° min. *1				30° min. *2 30° min.				
Ambient opera temperature ra	•		−25 to 55°C						
Ambient storag		-40 to 70°C -40 to 55°C -40 to 70°C							
Ambient opera humidity range		35% to 85%					35% to 95%	35% to 85%	
Ambient storage humidity range					35% to 95%				
Degree of prote	ection				IEC IP67				
Accessories									

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

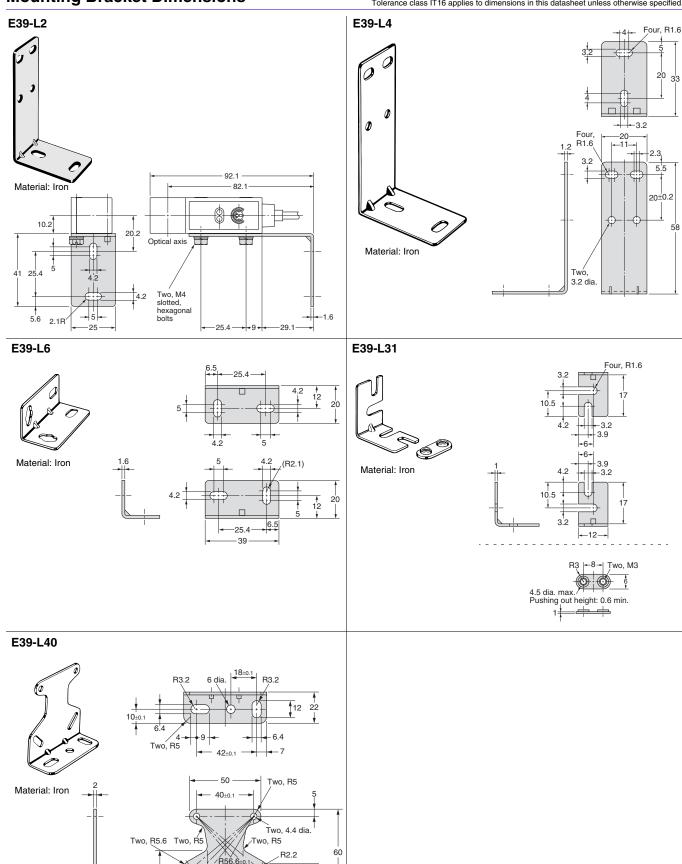
	Name		Small re	eflector		Tape reflector *			
Item	Model	E39-R9	E39-R3	E39-R4	E39-R37-CA *	E39-RS1 E39-RS1-CA	E39-RS2 E39-RS2-CA	E39-RS3 E39-RS3-CA	
Directional a	angle				30° min.				
Ambient ope temperature			−25 to 55°C						
Ambient sto temperature	•		−40 to 70°C	0 to 40°C					
Ambient ope humidity ran		35% to 95% 35% to 85%							
Ambient sto humidity ran		35% to 95%			35% to 85%				
Degree of pr	otection	IEC IP67							
Accessories	Mounting Brack- ets E39-L104 (with screws) Mounting Brack- ets E39-L104 (with screws) Phillips screws M3 × 3, spring wash- ers M3, nuts M3								

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

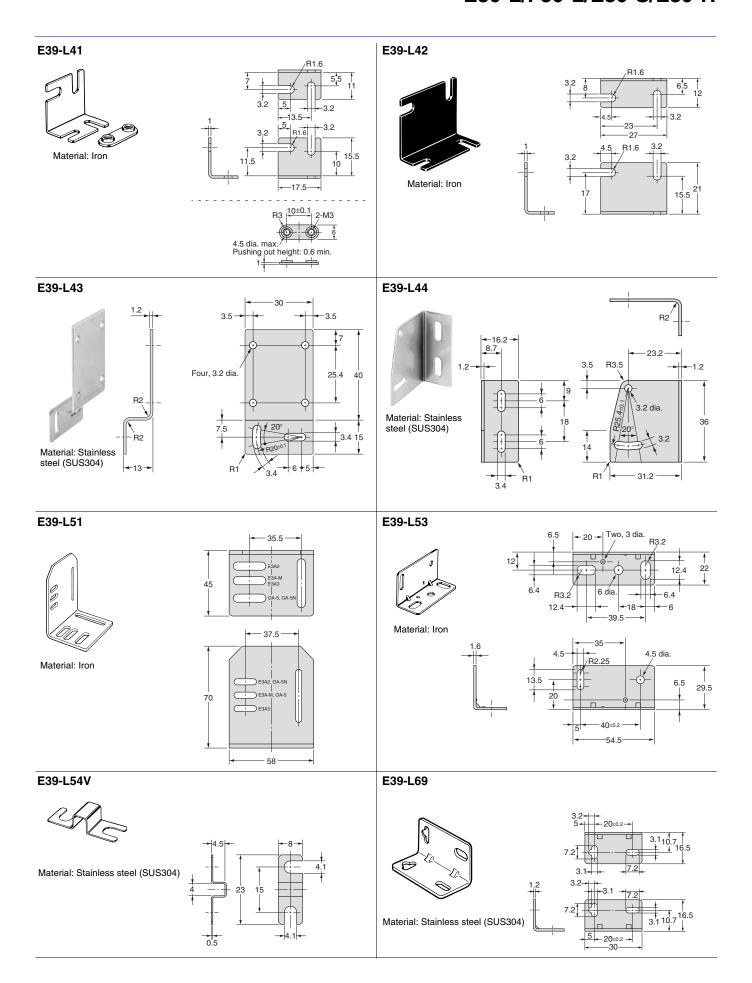
Name				Laser Reflectors	Laser Reflectors									
		Standard		Short-distance transparent object detection	Sh	eets								
Item	Model	E39-R12 E39-R13		E39-R14	E39-RS4	E39-RS5								
Ambient ope temperature	_	−10 to 55°C (No icing)												
Ambient sto temperature	•	−25 to 70°C (No icing)												
Ambient open humidity ran		35 to 85% (No condensation)												
Ambient sto humidity rar		35 to 85% (No condensation)												

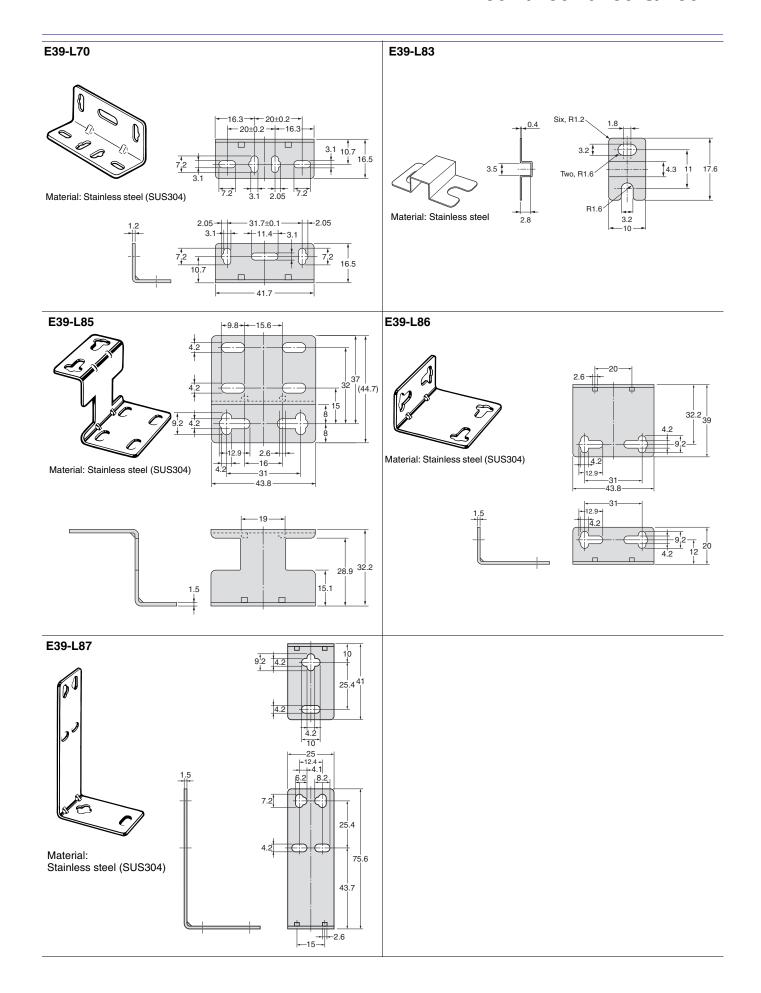
Mounting Bracket Dimensions

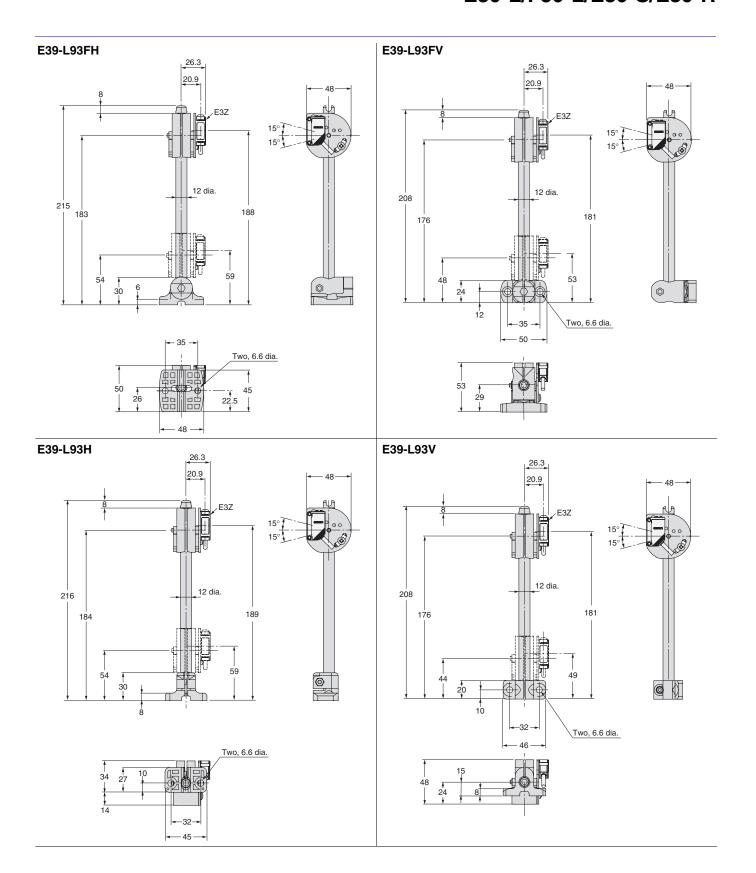
(Unit: mm) Tolerance class IT16 applies to dimensions in this datasheet unless otherwise specified.



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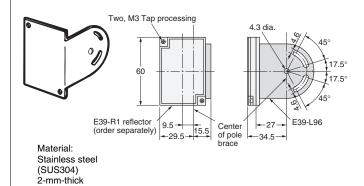


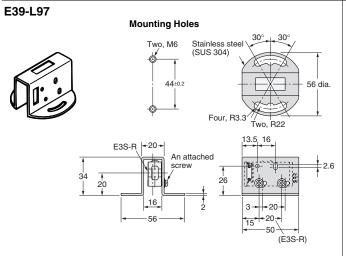


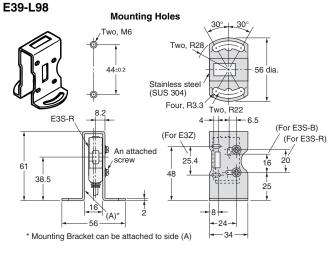


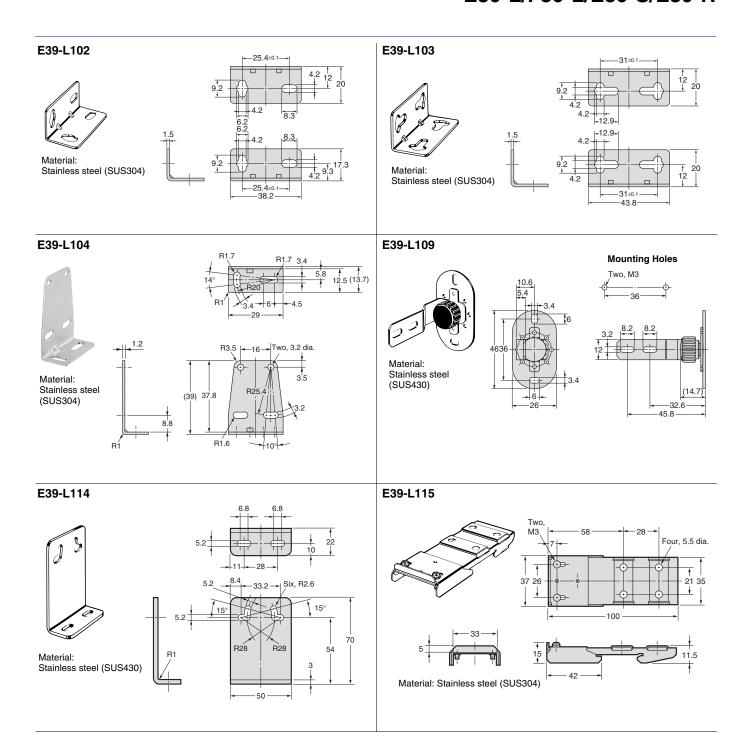
Note: The E39-L93XY consists of only the one joint holder (A) and pipe, and the two hexagonal bolts and nuts. It cannot be mounted to the Sensor alone.

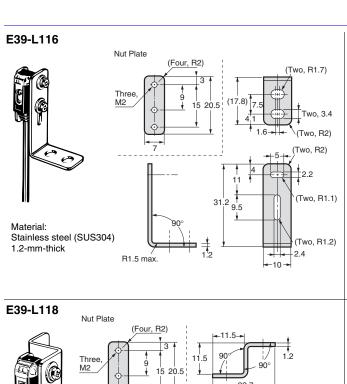
E39-L96

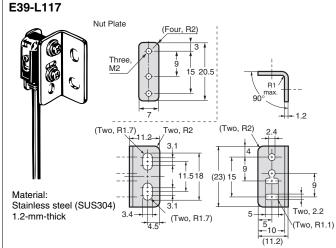


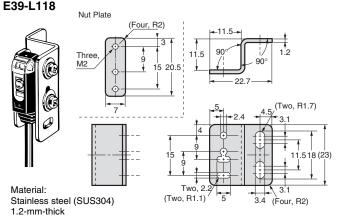


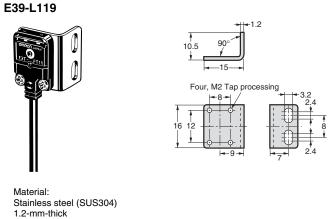


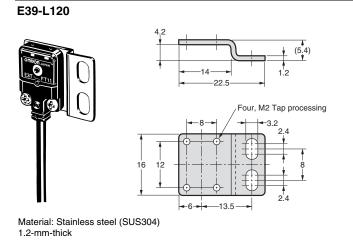


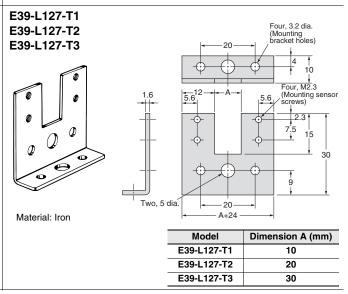


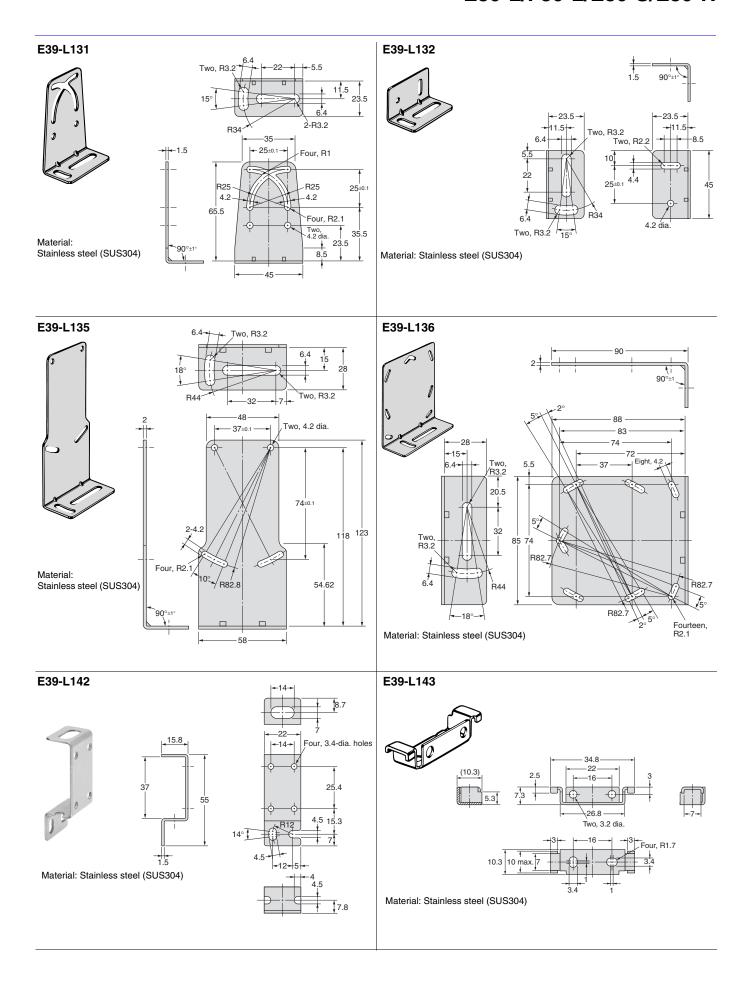


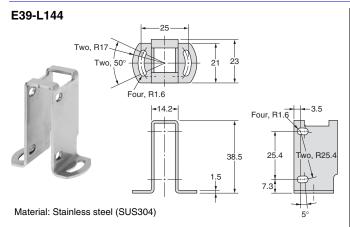






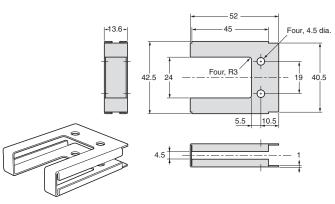


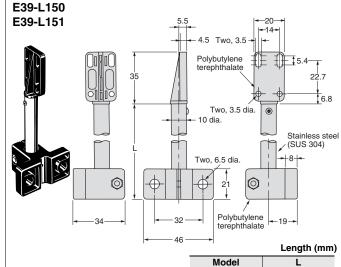




E39-L148 Two, 3.2 dia. Material: Stainless steel (SUS304)

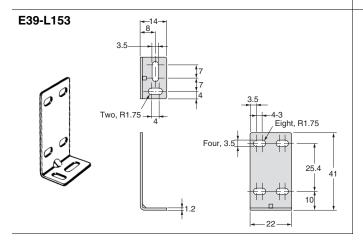
E39-L149





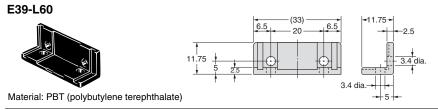
E39-L150

E39-L151



Contact Mounting Plate

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



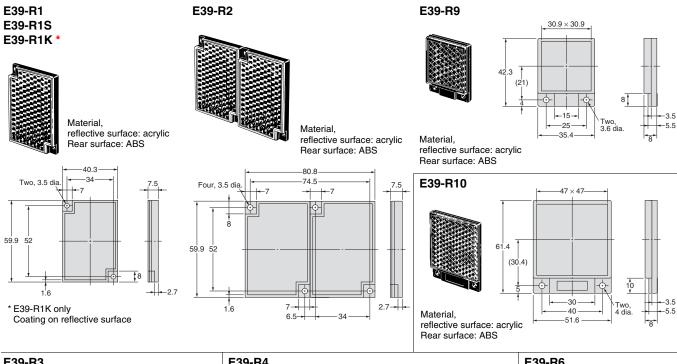
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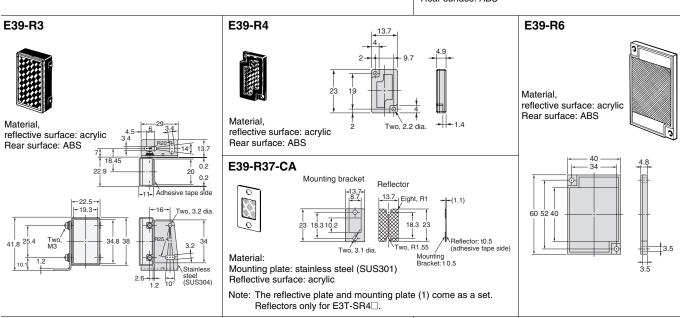
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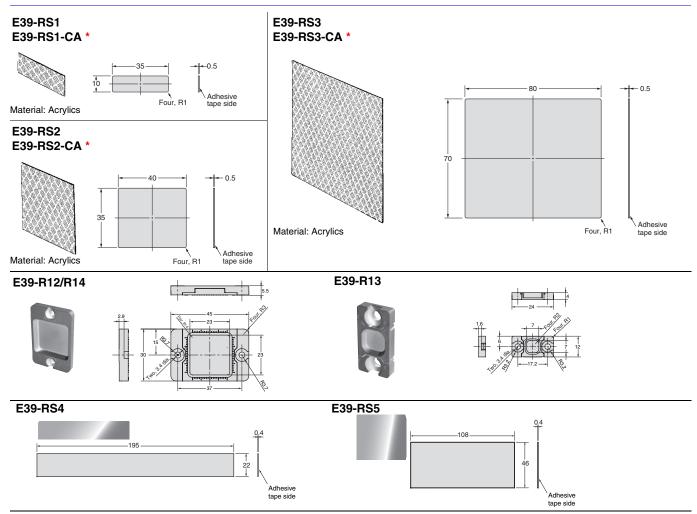
Reflector dimensions

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





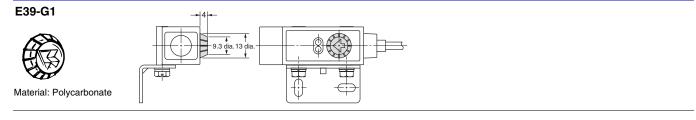




^{*} Models ending in the suffix "-CA" are reflectors only for E3T-SR4.

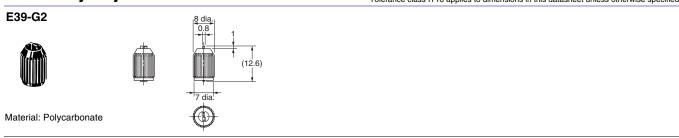
Sensitivity Adjuster

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



Sensitivity Adjustment Driver

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



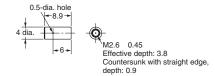
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Lens Unit

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

E39-F1V



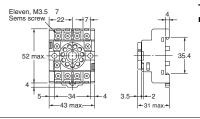


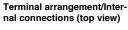
Connection Sockets

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

Front Connection Socket PF113A









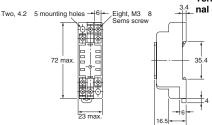


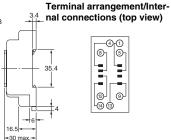


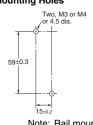
Note: Rail mounting also possible.

Front Connection Socket PYF08A







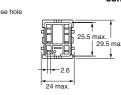


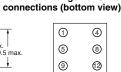
Note: Rail mounting also possible.

Front Connection Socket PY08



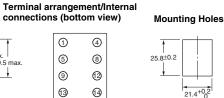




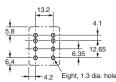


14)

13



PCB Cutout Dimensions



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- and (ii) Buyer has no past due amounts.

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