Mounting Brackets E39-L/F39-L Slits/Reflectors E39-S/E39-R

#### 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 $M3 \times 12$ (with spring and plain washers)	Iron, zinc plating	2	E32-T16 (20)	
E39-L6	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)	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 $\times$ 25 (with spring and plain washers)	Iron, zinc plating	2	ЕЗЈК	
			Nuts M4	Iron, zinc plating	2		
E39-L41	Iron, zinc plating	2	Phillips screws M3 $\times$ 14 (with spring washers)	Iron, zinc plating	4	E3C-1 (10)	
			Plain washer M3	Iron, zinc plating	4		
E39-L42	Iron, black coating	2	Phillips screws M3 × 10 (with spring washers) Plain washer M3	Iron, zinc plating	4	E3C-2 (20) E3C-DS10 (19) E3C-VS1G (19)	
					-	E3C-VS3R (19)	
E39-L43	Stainless steel (SUS304)	1	Slotted/Phillips screws $M3 \times 8$ (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 $M3 \times 8$ (with spring and plain washers)	Stainless steel (SUS304)	2	E3Z pre-wired model (25.4)	
E39-L51	Iron, zinc plating	1	Slotted/Phillips screws $M4 \times 30$ (with spring and plain washers) Nuts M4	Iron, zinc 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 $M3 \times 12$ (with spring and plain washers)	Stainless steel (SUS304)	2	E3S-R1□ (20) E3S-R3□ (20)	
E39-L70	Stainless steel (SUS304)	1	Slotted/Phillips screws $M3 \times 12$ (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.

Web: https://www.bolenscontrol.com/ - Phone: (800) 658-5241 - Email: sales@bolenscontrol.com

OMRON

	Fitting		Acce	Applicable sensor	Page		
Model	materials	Count	Description	Material	Count	(mounting pitch on sensor side)	Dimensions
	Stainlage steel		Holder (upper)	Heat-resistant ABS resin	1		
E39-L93FH	Stainless steel (SUS304)	1	Holder (lower)	66 nylon	1		
	(000004)		Pipe	Stainless steel (SUS304)	1		
	Otaliala a start		Bolts M4 $ imes$ 12 with Hexagonal	Iron, nickel plating	2		
E39-L93FV	Stainless steel (SUS304)	1	holes			E3Z (25.4)	
	(000004)		Bolts M4 $\times$ 30 with hexagonal	Iron, nickel plating	1	E3S-R10/R30	8
	0		holes			/R6□/R8□ (20)	0
E39-L93H	Stainless steel (SUS304)	1	Phillips screws M3 $\times$ 12	Stainless steel (SUS304)	2	E39-R1/E39-R3	
	(303304)		(with spring and plain washers)				
	0		Spring washer M4	Iron, nickel plating	1		
E39-L93V	Stainless steel (SUS304)	1	Plain washer M4	Iron, nickel plating	1		
	(303304)		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 $\times$ 16 with hexagonal holes	Stainless steel (SUS304)	2	/R6□/R8□ (20)	
			Nuts M5	Stainless steel (SUS304)	2	E39-R1/E39-R3	
E20   04	Iron sinc statis	_	Phillips screws $M3 \times 10$	Iron, zinc plating	4	E22 T46D (40)	1
E39-L94	Iron, zinc plating	2	Nuts M3	Iron, zinc plating	4	E32-T16P (19)	
E39-L96							
* For installation	Ctainlana ataal		Phillips screws M3 × 6				9
of Sensor	Stainless steel (SUS304)	1	(with spring and plain washers)	Iron, nickel plating	2	E39-R1	-
Adjuster E39-	(303304)		(with spring and plain washers)				
L93							
E39-L97	Stainless steel	1	Slotted/Phillips screws $M3 \times 12$	Stainless steel (SUS304)	2	E3S-R1□/R3□ (20)	
200 201	(SUS304)		(with spring and plain washers)		-	. ,	
	Stainless steel		Slotted/Phillips screws M3 $\times$ 12			E3Z pre-wired model	
E39-L98	(SUS304)	1	(with spring and plain washers)	Stainless steel (SUS304)	2	(25.4) E3S-R6□/R8□ (20)	
	Stainless steel		Hexagonal bolts M4 × 12			E3S-R6_/R8_ (20) E3S-C (horizontal type)	
E39-L102	(SUS304)	1	(with spring and plain washers)	Iron, zinc plating	2	(25.4)	
	Stainless steel		Hexagonal bolts $M4 \times 12$			E3S-C (vertical type) (25.4)	
E39-L103	(SUS304)	1	(with spring and plain washers)	Iron, zinc plating	2	E3S-CR62/67 (25.4)	
	(/					E3Z pre-wired model	
	Stainless steel	ainless steel	Slotted/Phillips screws M3 × 8		0	(25.4)	
E39-L104	(SUS304)	1	(with spring and plain washers)	Stainless steel (SUS304)	2	E32-R21 (for installation of	10
						E39-R3) (25.4)	10
E39-L109	Stainless steel	1				E32-S15- (13.2)	
233-2103	(SUS430)	'					
E39-L114	Stainless steel	2	Phillips screws M5 $\times$ 10	Iron, zinc plating	4	E3MC (28)	
	(SUS430)		•			( - )	
E39-L115	Stainless steel	1	Phillips screws $M5 \times 8$	Iron, zinc plating	4	E3MC	
	(SUS304)		Slotted/Phillips screws $M3 \times 8$	Iron, nickel plating	2		
E39-L116	Stainless steel (SUS304)	1				E3T-S (9/15)	
	Stainless steel						
E39-L117	(SUS304)	1				E3T-S (9/15)	
	Stainless steel						
E39-L118	(SUS304)	1				E3T-S (9/15)	
E00 1 4 4 0	Stainless steel						
E39-L119	(SUS304)	1				E3T-F (8)	
E39-L120	Stainless steel	1				E2T E (9)	11
LJ3-L120	(SUS304)	'				E3T-F (8)	
E39-L127-T1	Iron, zinc plating	1	Phillips screws M2.3 $\times$ 8	Iron, zinc plating	4		
	non, zine plaung	'	Spring washer M2.3	Iron, zinc plating	4		
E20-1 127 T2	Iron zine plating	1	Phillips screws M2.3 $\times$ 8	Iron, zinc plating	4	E2C S10 (7 5)	
E39-L127-T2	Iron, zinc plating	1	Spring washer M2.3	Iron, zinc plating	4	E3C-S10 (7.5)	
		1	i de la companya de l		-		1
E39-L127-T3	Iron, zinc plating	1	Phillips screws M2.3 $\times$ 8	Iron, zinc plating	4		

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 $M4 \times 25$	Stainless steel (SUS304)	2		
E39-L131	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 $\times$ 25	Stainless steel (SUS304)	2		
E39-L132	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 $M4 \times 35$	Stainless steel (SUS304)	2		
E39-L135	Stainless steel (SUS304)	1	Spring washer M4 Plain washer M4	Stainless steel (SUS304)	2 2	E3G-MR19 (T) E3G-ML79 (T)	
	(303304)		Nuts M4	Stainless steel (SUS304)	2	L3G-WL79(1)	12
			Slotted/Phillips screws M4 × 35	Stainless steel (SUS304) Stainless steel (SUS304)	2		_
	Otalizia a stani		Spring washer M4	Stainless steel (SUS304)	2		
E39-L136	Stainless steel (SUS304)	1	Plain washer M4	Stainless steel (SUS304)	2	E3G-MR19 (T) E3G-ML79 (T)	
	(000004)	<i>J</i> 4)	Nuts M4	Stainless steel (SUS304)	2	L30-ME73 (1)	
	Stainless steel		Slotted/Phillips screws M3 × 8	Stallliess steel (303304)		E3Z pre-wired model	_
E39-L142	(SUS304)	1	(with spring and plain washers)	Stainless steel (SUS304)	2	(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 $M3 \times 12$ (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 tereph- thalate)	1		
	Stainless steel		Shaft (brace)	Stainless steel (SUS304)	1	E3Z (25.4)	
E39-L150	(SUS304)	1	Bolt with hexagonal hole	Stainless steel (SUSXM7)	1	E3S-R6□/R8□ (20)	
	(000004)		Nut	Stainless steel (SUS304)	1	E39-R3	10
			Phillips screw	Stainless steel (SUSXM7)	1		13
			Slotted/Phillips screws	Stainless steel (SUS304)	2		
			Holder/bracket	PBT (polybutylene tereph- thalate)	1		
	Otalialas i l		Shaft (brace)	Stainless steel (SUS304)	1	E3Z (25.4)	
E39-L151	Stainless steel (SUS304)	1	Bolt with hexagonal hole	Stainless steel (SUSXM7)	1	E3S-R6□/R8□ (20)	
	(00004)		Nut	Stainless steel (SUS304)	1	E39-R3	
			Phillips screw	Stainless steel (SUSXM7)	1		
			Slotted/Phillips screws	Stainless steel (SUS304)	2		
E39-L153	Stainless steel (SUS304)	1	Slotted/Phillips screws $M3 \times 8$ (with spring and plain washers)	Stainless steel (SUSXM7) Stainless steel (SUS304)	2	E3Z pre-wired model (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		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 $0.5 \times 10 \text{ mm}$		E32-1
E39-S65E	Width 1 × 10 mm		
E39-S65F	Width $2 \times 10$ mm		
E39-S68	Width 0.5, 1 × 13.4 mm	Seal type	E32-T16P E32-T16PR

Note: 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-R6	E39-R10	E39-RP1	
Directional angle		30° min. *1			30° min. *2 30° min.				
•	Derature range -25 to 55°C					-40 to 60°C			
Ambient sto temperature	•	-40 t	o 70°C	-40 to 55°C	-40 to 70°C				
Ambient op humidity rar				35% to 85%	35% to 95% 35% to 8				
Ambient sto humidity ra		35% to 95%							
Degree of p	otection	IEC IP67							
Accessories	;								

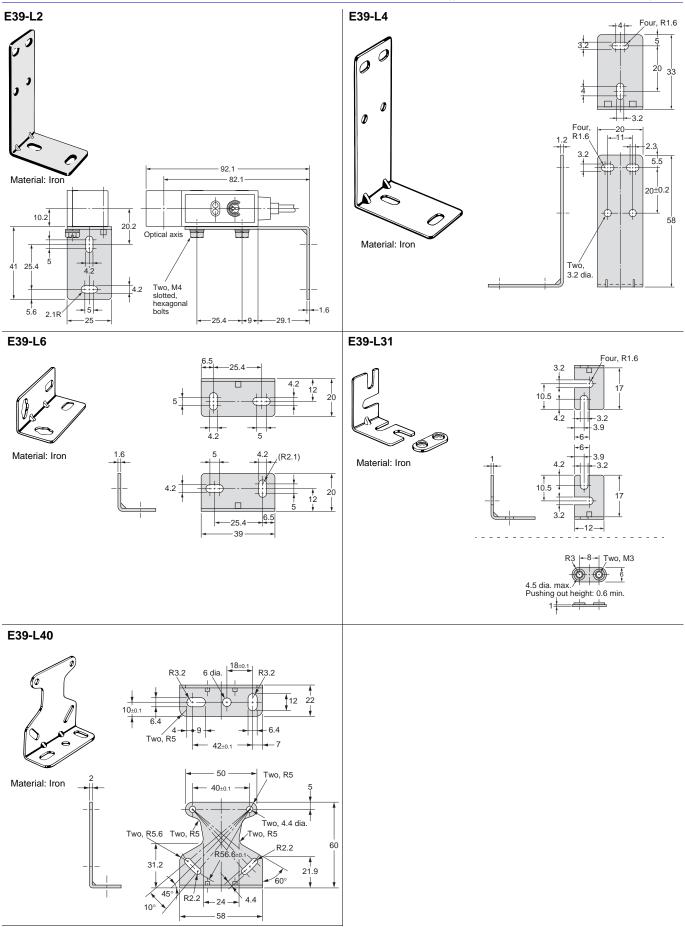
\*1. 40° or higher for E3JM-R and E3JK-R. \*2. 40° or higher for E3G-R.

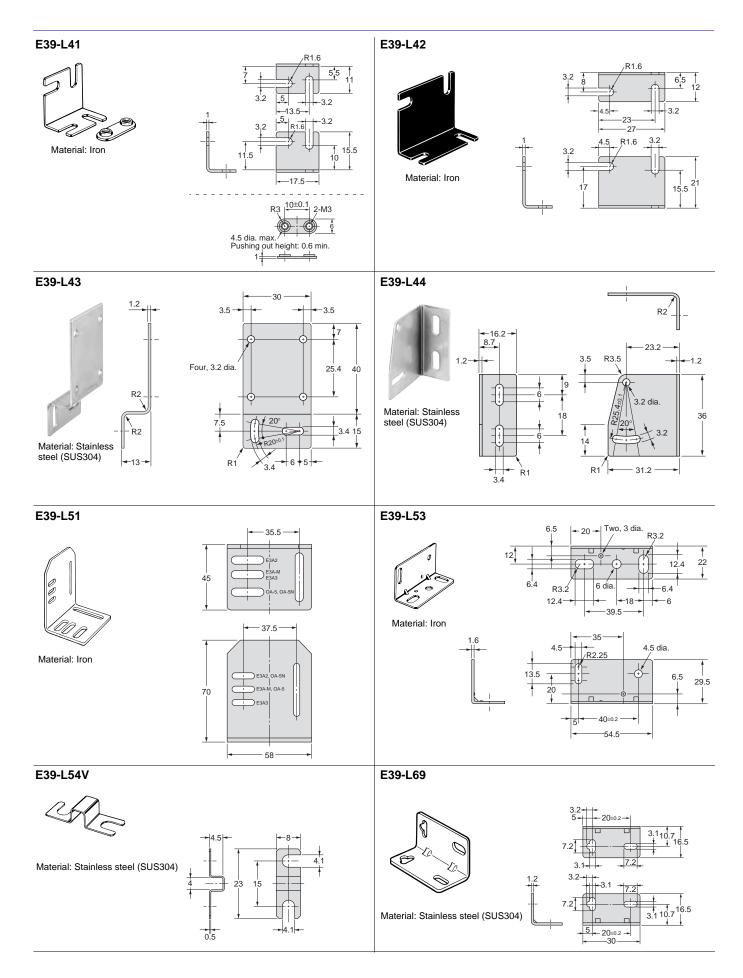
	Name		Small re	eflector		Tape reflector *		
Item	Model	E39-R9	E39-R3	E39-R4	E39-R37-CA *	E39-RS1 E39-RS1-CA	E39-RS2 E39-RS2-CA	E39-RS3 E39-RS3-CA
Directional a	ingle				30° min.			
Ambient ope temperature					–25 to 55°C			
Ambient stor temperature	•	-40 to 70°C 0 to 40°C						
Ambient ope humidity ran		35% to 95%			35% to 8	85%		
Ambient stor humidity ran			35% to 95%			35% to	0 85%	
Degree of pr	otection	IEC IP67						
Accessories         Mounting Brack- ets E39-L104 (with screws)         Phillips screws M3 × 3, spring wash- ers M3, nuts M3								
* Models endin	ng in the suffix	"-CA" are reflectors	s only for E3T-SR4					

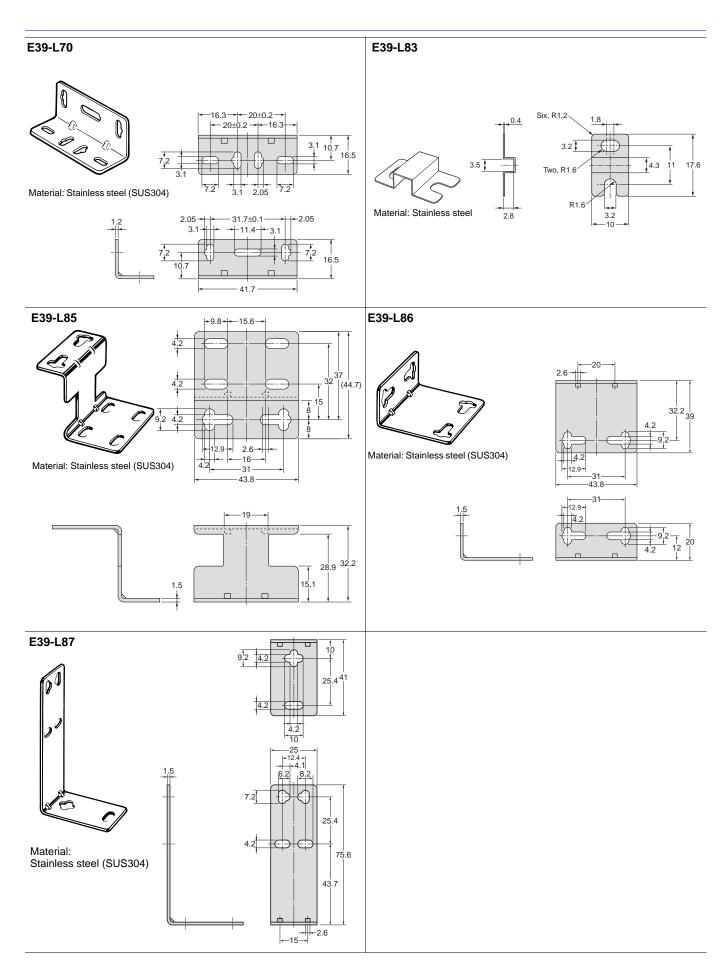
	Name	Laser Reflectors								
	-	Stan	dard	Short-distance transpar- ent object detection	Sheets					
Item	Model	E39-R12	E39-R13	E39-R14	E39-RS4	E39-RS5				
Ambient op temperature	-		-10 to 55°C (No icing)							
	mbient storage -25 to 70°C (No icing)									
Ambient op humidity rat		35 to 85% (No condensation)								
Ambient sto humidity rat			35 to 85% (No condensation)							

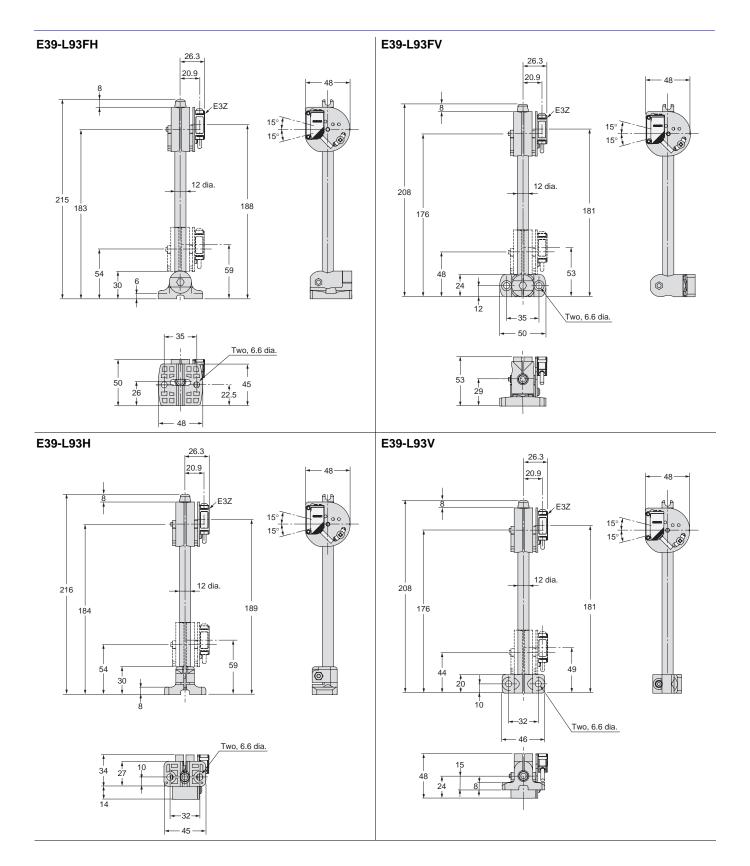
#### **Mounting Bracket Dimensions**

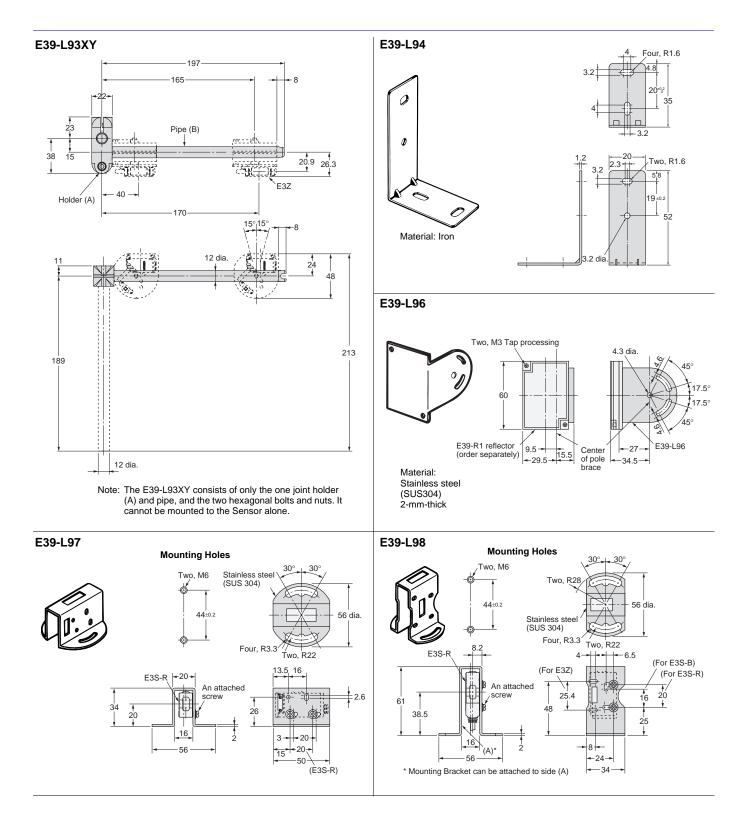
(Unit: mm) Tolerance class IT16 applies to dimensions in this datasheet unless otherwise specified.





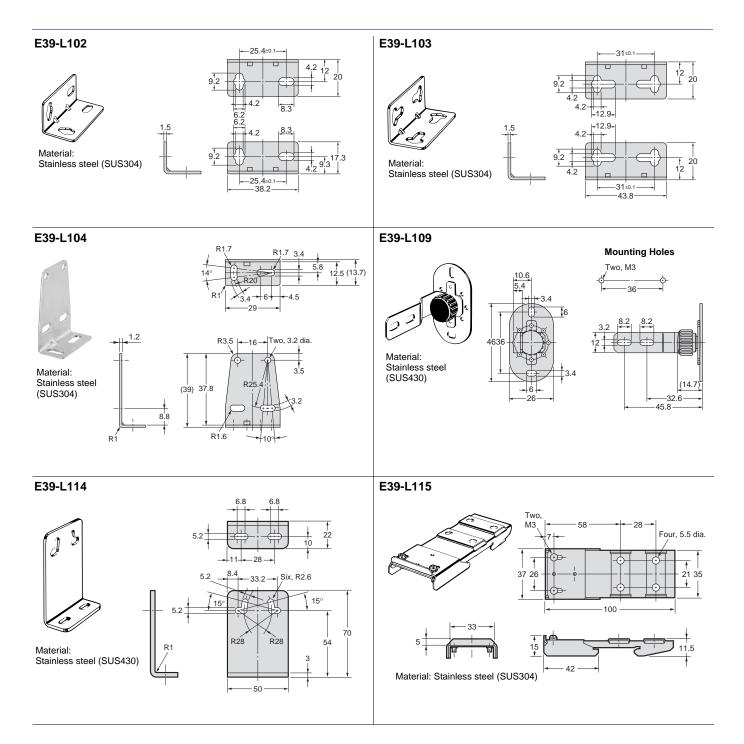




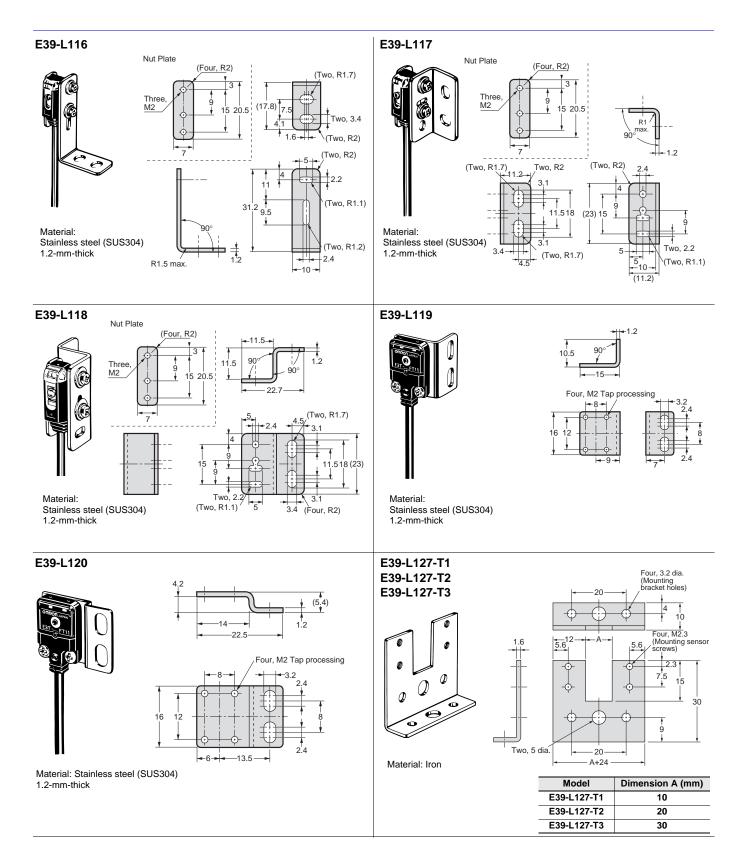


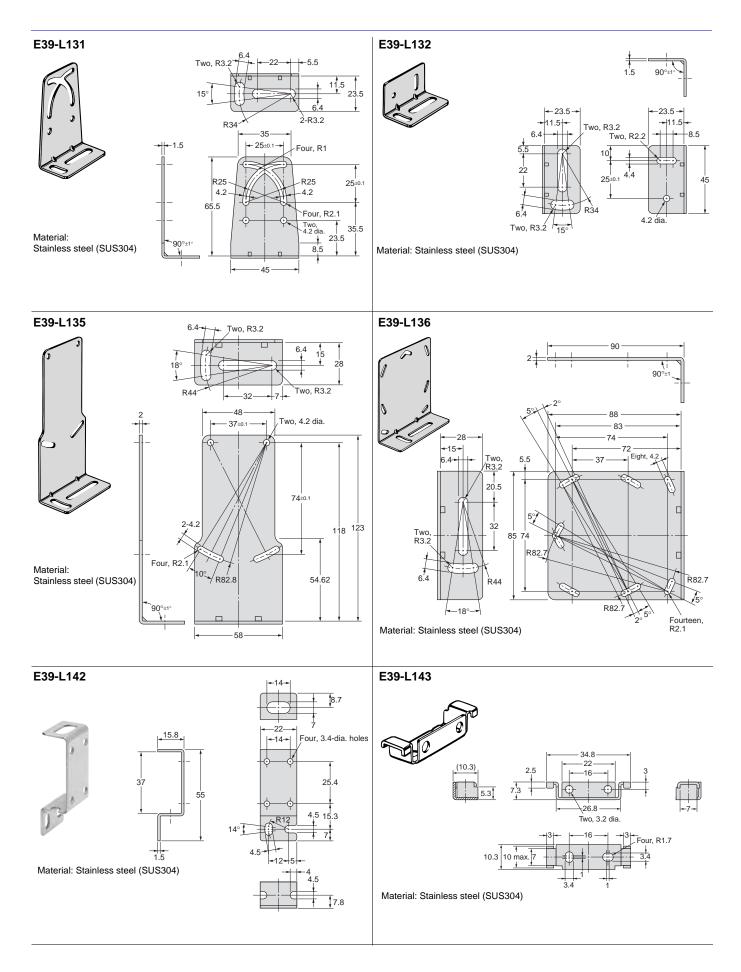
Web: https://www.bolenscontrol.com/ - Phone: (800) 658-5241 - Email: sales@bolenscontrol.com

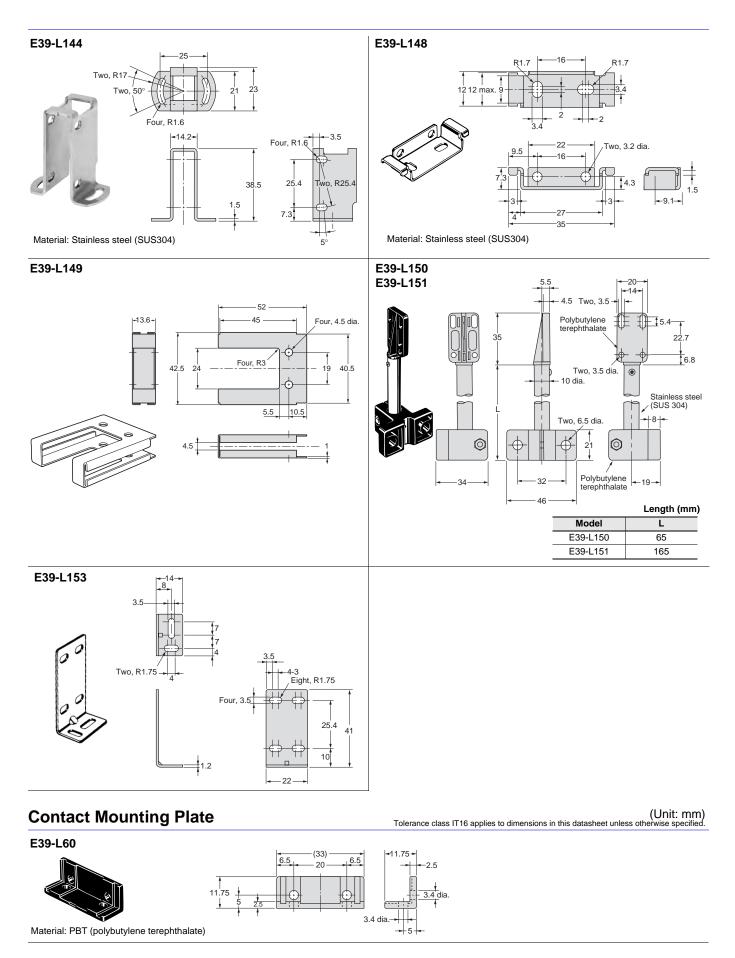
OMRON



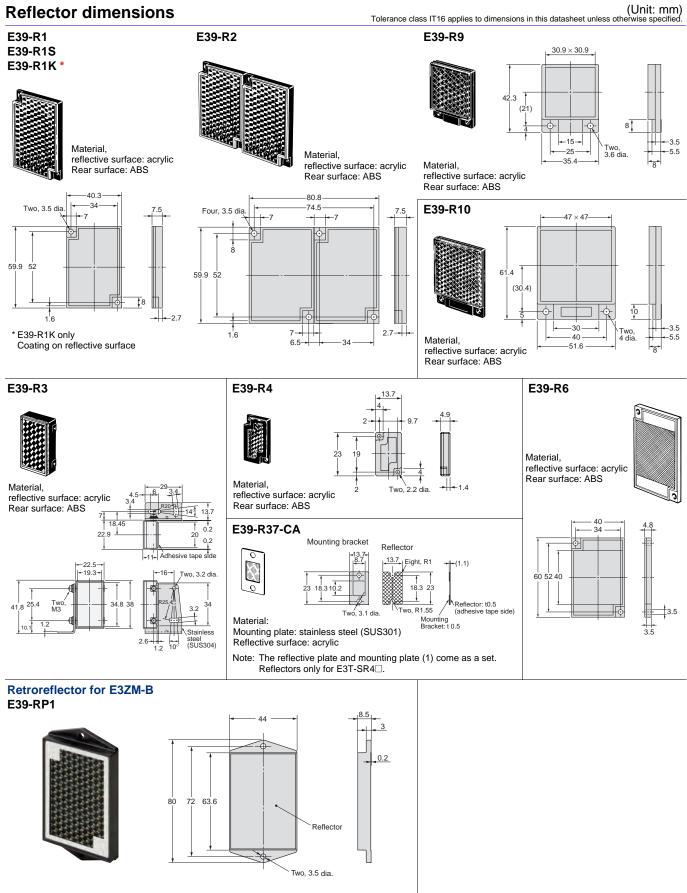
OMRON

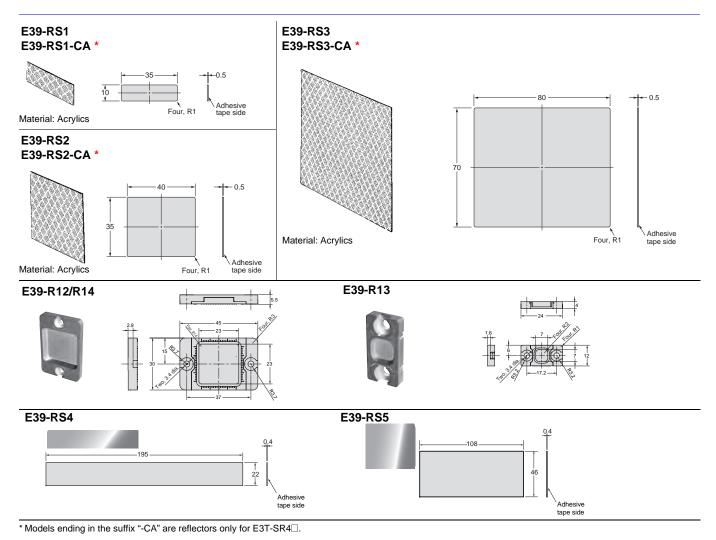






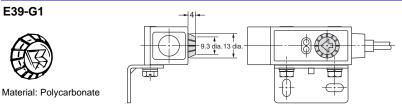
#### **Reflector dimensions**



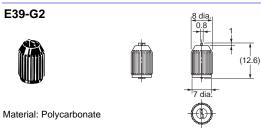


### Sensitivity Adjuster





#### Sensitivity Adjustment Driver



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

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

#### Lens Unit

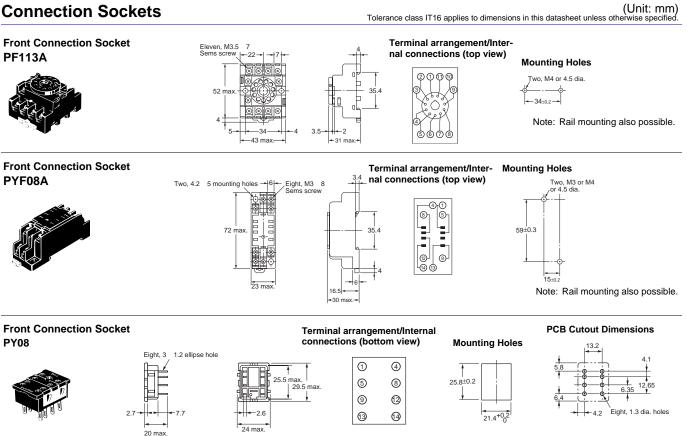
E39-F1V





M2.6 0.45 Effective depth: 3.8 Countersunk with straight edge, depth: 0.9

#### **Connection Sockets**



# Terms and Conditions of Sale

- 1. <u>Offer: Acceptance</u>. These terms and conditions (these "<u>Terms</u>") are deemed part of all quotes, agreements, purchase orders, acknowledgments, price lists, catalogs, manuals, brochures and other documents, whether electronic or in writing, relating to the sale of products or services (collectively, the "<u>Products</u>") by Omron Electronics LLC and its subsidiary companies ("<u>Omron</u>"). Omron objects to any terms or conditions proposed in Buyer's purchase order or other documents which are inconsistent with, or in addition to, these Terms. <u>Prices; Payment Terms</u>, All prices stated are current, subject to change with-out notice by Omron. Omron reserves the right to increase or decrease prices on any unshipped portions of outstanding orders. Payments for Products are due net 30 days unless otherwise stated in the invoice. <u>Discounts</u>, Cash discounts, if any, will apply only on the net amount of invoices sent to Buyer after deducting transportation charges, taxes and duties, and will be allowed only if (i) the invoice is paid according to Omron's payment terms and (ii) Buyer has no past due amounts. Offer; Acceptance. These terms and conditions (these "Terms") are deemed
- 2
- 3.
- and (ii) Buyer has no past due amounts. Interest. Omron, at its option, may charge Buyer 1-1/2% interest per month or the maximum legal rate, whichever is less, on any balance not paid within the stated terms.
- Orders. Omron will accept no order less than \$200 net billing. Governmental Approvals. Buyer shall be responsible for, and shall bear all
- costs involved in, obtaining any government approvals required for the impor-tation or sale of the Products. Taxes. All taxes, duties and other governmental charges (other than general real property and income taxes), including any interest or penalties thereon, imposed directly or indirectly on Omron or required to be collected directly or 7. indirectly by Omron for the manufacture, production, sale, delivery, importa-tion, consumption or use of the Products sold hereunder (including customs
- tion, consumption or use of the Products sold hereunder (including customs duties and sales, excise, use, turnover and license taxes) shall be charged to and remitted by Buyer to Omron. <u>Financial.</u> If the financial position of Buyer at any time becomes unsatisfactory to Omron, Omron reserves the right to stop shipments or require satisfactory security or payment in advance. If Buyer fails to make payment or otherwise comply with these Terms or any related agreement, Omron may (without liability and in addition to other remedies) cancel any unshipped portion of Products sold hereunder and stop any Products in transit until Buyer pays all amounts, including amounts payable hereunder, whether or not then due, which are owing to it by Buyer Buyer shall in any event remain liable for all 8. which are owing to it by Buyer. Buyer shall in any event remain liable for all unpaid accounts
- <u>Cancellation: Etc.</u> Orders are not subject to rescheduling or cancellation unless Buyer indemnifies Omron against all related costs or expenses.
   <u>Force Majeure</u>. Omron shall not be liable for any delay or failure in delivery
- resulting from causes beyond its control, including earthquakes, fires, floods resulting from causes beyond its control, including earthquakes, fires, floods, strikes or other labor disputes, shortage of labor or materials, accidents to machinery, acts of sabotage, riots, delay in or lack of transportation or the requirements of any government authority.
  11. <u>Shipping: Delivery.</u> Unless otherwise expressly agreed in writing by Omron:

  a. Shippments shall be by a carrier selected by Omron; Omron will not drop ship except in "break down" situations.
  b. Such carrier shall act as the agent of Buyer and delivery to such carrier shall constitute delivery.
- - constitute delivery to Buyer; c. All sales and shipments of Products shall be FOB shipping point (unless oth-
- c. All sales and shipments of Products shall be FOB shipping point (unless otherwise stated in writing by Omron), at which point title and risk of loss shall pass from Omron to Buyer; provided that Omron shall retain a security interest in the Products until the full purchase price is paid;
  d. Delivery and shipping dates are estimates only; and
  e. Omron will package Products as it deems proper for protection against normal handling and extra charges apply to special conditions.
  12. Claims. Any claim by Buyer against Omron for shortage or damage to the Products occurring before delivery to the carrier must be presented in writing to Omron within 30 days of receipt of shipment and include the original transportation bill signed by the carrier received the Products
- portation bill signed by the carrier noting that the carrier received the Products from Omron in the condition claimed.
- Warranties. (a) Exclusive Warranty. Omron's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Omron (or such other period expressed in writing by Omron). Omron disclaims all other warranties, express or implied.
   (b) <u>Limitations</u>. OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABIL-13

# Certain Precautions on Specifications and Use

- Suitability of Use. Omron Companies shall not be responsible for conformity with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product. At Buyer's request, Omron will provide application to use of the Product. At Buyer's application of use of the product applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Prod-uct in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system.

the particular Product with respect to Buyer's application, product or system. Buyer shall take application responsibility in all cases but the following is a non-exhaustive list of applications for which particular attention must be given: (i) Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this document. (ii) Use in consumer products or any use in significant quantities. (iii) Energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equip-ment, and installations subject to separate industry or government regulations. (iv) Systems, machines and equipment that could present a risk to life or prop-erty. Please know and observe all prohibitions of use applicable to this Prod-uct.

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO

ITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS. BUYER ACKNOWLEDGES THAT IT ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE. Omron further disclaims all warranties and responsibility of any type for claims or expenses based on infringement by the Products or oth-erwise of any intellectual property right. (c) <u>Buyer Remedy</u>. Omron's sole obli-gation hereunder shall be, at Omron's election, to (i) replace (in the form originally shipped with Buyer responsible for labor charges for removal or replacement thereof) the non-complying Product, (ii) repair the non-complying Product, or (iii) repay or credit Buyer an amount equal to the purchase price of the non-complying Product; provided that in no event shall Omron be responsi-ble for warranty, repair, indemnity or any other claims or expenses regarding the Products unless Omron's analysis confirms that the Products were prop-erly handled, stored, installed and maintained and not subject to contamina-tion, abuse, misuse or inappropriate modification. Return of any Products by tion, abuse, misuse or inappropriate modification. Return of any Products by Buyer must be approved in writing by Omron before shipment. Omron Compa-nies shall not be liable for the suitability or unsuitability or the results from the use of Products in combination with any electrical or electronic components, circuits, system assemblies or any other materials or substances or environments. Any advice, recommendations or information given orally or in writing, are not to be construed as an amendment or addition to the above warranty See OMRON website or contact your Omron representative for pub-lished information.

- information. Limitation on Liability: Etc. OMRON COMPANIES SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE OR STRICT LIABILITY. Further, in no event shall liability of Omron Companies exceed the individual price of the Product on which liability is asserted. 14
- Indemnities. Buyer shall indemnify and hold harmless Omron Companies and their employees from and against all liabilities, losses, claims, costs and expenses (including attorney's fees and expenses) related to any claim, inves-tigation, litigation or proceeding (whether or not Omron is a party) which arises 15 or is alleged to arise from Buyer's acts or omissions under these Terms or in any way with respect to the Products. Without limiting the foregoing, Buyer (at its own expense) shall indemnify and hold harmless Omron and defend or set-tle any action brought against such Companies to the extent based on a claim that any Product made to Buyer specifications infringed intellectual property rights of another party.
- rights of another party.
  16. <u>Property: Confidentiality.</u> Any intellectual property in the Products is the exclusive property of Omron Companies and Buyer shall not attempt to duplicate it in any way without the written permission of Omron. Notwithstanding any charges to Buyer for engineering or tooling, all engineering and tooling shall remain the exclusive property of Omron. All information and materials supplied by Omron to Buyer relating to the Products are confidential and proprietary, and Buyer shall limit distribution thereof to its trusted employees and strictly prevent disclosure to any third party.
- prevent disclosure to any third party. <u>Export Controls.</u> Buyer shall comply with all applicable laws, regulations and licenses regarding (i) export of products or information; (iii) sale of products to "forbidden" or other proscribed persons; and (ii) disclosure to non-citizens of
- "forbidden" or other proscribed persons; and (ii) disclosure to non-citizens of regulated technology or information. <u>Miscellaneous</u>. (a) <u>Waiver</u>. No failure or delay by Omron in exercising any right and no course of dealing between Buyer and Omron shall operate as a waiver of rights by Omron. (b) <u>Assignment</u>. Buyer may not assign its rights hereunder without Omron's written consent. (c) <u>Law</u>. These Terms are governed by the law of the jurisdiction of the home office of the Omron company from which Buyer is purchasing the Products (without regard to conflict of law principles). (d) <u>Amendment</u>. These Terms constitute the entire agreement between Buyer and Omron relating to the Products, and no provision may be changed or waived unless in writing singed by the parties. (e) Severability. If any provi-18. or waived unless in writing signed by the parties. (e) <u>Severability</u>. If any provi-sion hereof is rendered ineffective or invalid, such provision shall not invalidate any other provision. (f) <u>Setoff</u>. Buyer shall have no right to set off any amounts against the amount owing in respect of this invoice. (g) <u>Definitions</u>. As used herein, "<u>including</u>" means "including without limitation"; and "<u>Omron Compa</u>nies" (or smilar words) mean Omron Corporation and any direct or indirect subsidiary or affiliate thereof.

ADDRESS THE RISKS, AND THAT THE OMRON'S PRODUCT IS PROP-ERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

- Programmable Products. Omron Companies shall not be responsible for the user's programming of a programmable Product, or any consequence thereof. <u>Performance Data</u>. Data presented in Omron Company websites, catalogs and other materials is provided as a guide for the user in determining suitabil-ity and does not constitute a warranty. It may represent the result of Omron's test conditions, and the user must correlate it to actual application require-3 ments. Actual performance is subject to the Omron's Warranty and Limitations of Liability.
- Change in Specifications. Product specifications and accessories may be 4 Change in Specifications, Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our prac-tice to change part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifica-tions of the Product may be changed without any notice. When in doubt, spe-cial part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Omron's representative at any time to explicit endition of numbered Product. to confirm actual specifications of purchased Product. Errors and Omissions. Information presented by Omron Companies has been
- checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.