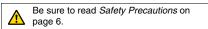
E2EQ

CSM_E2EQ_DS_E_5_1

Spatter-resistant Fluororesincoated Proximity Sensor

- Superior spatter resistance.
- Long Sensing-distance Models added for sensing distances up to 15 mm.
- Pre-wired Smartclick Connector Models are also available.





Ordering Information

Sensors [Refer to *Dimensions* on page 7.] Pre-wired Models

Long Sensing-distance Models

Appearance		Sensing distance	Output configuration	Operation mode	Model
	M12	4 mm			E2EQ-X4X1 2M
Shielded	M18	8 mm	DC 2-wire (no polarity)	NO	E2EQ-X8X1 2M
	M30	15 mm			E2EQ-X15X1 2M

Standard Models

Appearance		Sensing distance		Output configuration	Operation mode	Model
	M12	3 mm		DC 2-wire	NO	E2EQ-X3D1 2M
Shielded	M18	7 mm				E2EQ-X7D1 2M
	M30	10 mm		-		E2EQ-X10D1 2M

Pre-wired Smartclick Connector Models (M12)

Long Sensing-distance Models

Appearance		Sensing distance	Output configuration	Operation mode	Model
Chielded	M12	4 mm	DC 2-wire		E2EQ-X4X1-M1TJ 0.3M
Shielded	M18	8 mm	(no polarity) (3)-(4)	NO	E2EQ-X8X1-M1TJ 0.3M
	M30	15 mm	pin arrangement		E2EQ-X15X1-M1TJ 0.3M

Standard Models

Standard Models		Sensing distance		Output configuration	Operation mode	Model
Objected	M12	3 mm				E2EQ-X3D1-M1TGJ 0.3M
Shielded	M18	7 mm		DC 2-wire (1)-(4)	NO	E2EQ-X7D1-M1TGJ 0.3M
	M30	10 mm		- pin arrangement		E2EQ-X10D1-M1TGJ 0.3M

Pre-wired Connector Models (M12) Long Sensing-distance Models

Appearance		Sensing distance		Output configuration	Operation mode	Model
	M12	4 mm		- DC 2-wire (3)-(4) pin arrangement		E2EQ-X4X1-M1J 0.3M
Shielded	M18	8 mm			NO	E2EQ-X8X1-M1J 0.3M
	M30	15 mm				E2EQ-X15X1-M1J 0.3M

Standard Models

Standard Models		Sensing distance	Output configuration	Operation mode	Model
	M12	3 mm	DC 2-wire		E2EQ-X3D1-M1GJ 0.3M
Shielded	M18	7 mm	(1)-(4)	NO	E2EQ-X7D1-M1GJ 0.3M
	M30	10 mm	pin arrangement		E2EQ-X10D1-M1GJ 0.3M

Accessories (Order Separately)

Sensor I/O Connectors (M12)

(Models with Pre-wired Connectors: A Connector is not provided with the Sensor. Be sure to order a Connector separately.) [Refer to XS2, XS5.]

Appearance	Cable length	Sensor I/O Connector model number	Applicable Proximity Sensor model number
Straight	2 m	XS2F-D421-DC0-A	
a standar	5 m	XS2F-D421-GC0-A	E2EQ-X□X1-M1J
L-shape	2 m	XS2F-D422-DC0-A	
	5 m	XS2F-D422-GC0-A	_
Straight	2 m	XS2F-D421-DA0-A	
a diaman	5 m	XS2F-D421-GA0-A	E2EQ-X□D1-M1GJ
L-shape	2 m	XS2F-D422-DA0-A	
	5 m	XS2F-D422-GA0-A	_
Smartclick	2 m	XS5F-D421-D80-A	E2EQ-X□X1-M1TJ
Connector Straight	5 m	XS5F-D421-G80-A	E2EQ-X□D1-M1TGJ

Note: Refer to Introduction to Sensor I/O Connectors for details.

Ratings and Specifications

Long Sensing-distance Models

	Model	E2EQ-X4X1	E2EQ-X8X1	E2EQ-X15X1			
Item		E2EQ-X4X1-M1(T)J	E2EQ-X8X1-M1(T)J	E2EQ-X15X1-M1(T)J			
Sensing distance		4 mm ±10%	8 mm ±10%	15 mm ±10%			
Set distan	nce *1	0 to 3.2 mm	0 to 6.4 mm	0 to 12 mm			
Differentia	al travel	15% max. of sensing distance		-			
Standard	sensing object	Iron, $12 \times 12 \times 1$ mm	Iron, $18 \times 18 \times 1$ mm	Iron, $30 \times 30 \times 1$ mm			
Response	e frequency *2	1 kHz	0.5 kHz	0.25 kHz			
Control	Load current	3 to 100 mA					
output	Residual voltage *3						
	n mode (with sensing proaching)	Load ON: NO; For details, refer to the timing charts on page 5.					
Protection	n circuits	Load short-circuit protection, Surge suppressor					
Ambient t	emperature range	Operating: -25 to 70°C, Storage: -40 to 85°C, (with no icing or condensation)					
Temperat	ure influence	±15% max. of sensing distance at 23°C in the temperature range of -40 to 85°C ±10% max. of sensing distance at 23°C in the temperature range of -25 to 70°C the temperature range of -25 to 70°C					
Voltage in	nfluence	\pm 1% max. of sensing distance at rated voltage in the rated voltage \pm 15% range					
Shock res	sistance	Destruction: 1,000m/s ² 10 times each in X, Y, and Z directions					
Connectio	on method	Pre-wired Models (Standard cable length: 2 m), Pre-wired Connector Models					
Weight	Pre-wired Models	Approx. 65 g	Approx. 140 g	Approx. 190 g			
(packed	Pre-wired Connector Models	Approx. 20 g	Approx. 40 g	Approx. 90 g			

*1. Use the Sensor within the range in which the green indicator is ON.
*2. The response frequency is an average value.
*3. The residual voltage is 5 V. Make sure that the device connected to the Sensor can withstand the residual voltage.

Standard Models

Item	Model	E2EQ-X3D1 E2EQ-X3D1-M1(T)GJ	E2EQ-X7D1 E2EQ-X7D1-M1(T)GJ	E2EQ-X10D1 E2EQ-X10D1-M1(T)GJ			
Sensing dista	ance	3 mm ±10%	7 mm ±10%	10 mm ±10%			
Set distance		0 to 2.4 mm	0 to 5.6 mm	0 to 8 mm			
Differential tr	avel	10% max. of sensing distance					
Standard sen	sing object	Iron, $12 \times 12 \times 1$ mm	Iron, $18 \times 18 \times 1$ mm	Iron, $30 \times 30 \times 1 \text{ mm}$			
Response fre	equency *	1 kHz	500 Hz	400 Hz			
Control	Load current	3 to 100 mA	-				
output	Residual voltage	3 V max. (Load current: 100 mA, Cable length: 2 m)					
Operation mo object approa	ode (with sensing aching)	Load ON: NO; For details, refer to the timing charts on page 5.					
Protection ci	rcuits	Load short-circuit protection, Surge suppressor					
Ambient tem	perature range	Operating/Storage: -25 to 70°C (with no icing or condensation)					
Temperature	influence	$\pm 10\%$ max. of sensing distance at 23°C in the temperature range of –25 to 70°C					
Voltage influe	ence	$\pm 2.5\%$ max. of sensing distance at rated voltage in the rated voltage $\pm 15\%$ range					
Shock resista	ance	Destruction: 1,000 m/s ² 10 times each in X, Y, and Z directions					
Connection n	nethod	E2EQ-XD1: Pre-wired Models (Standard cable length: 2 m) E2EQ-XD1-M1GJ: Pre-wired Connector Models (Standard cable length: 300mm)					
Weight	Pre-wired Models	Approx. 120 g	Approx. 160 g	Approx. 220 g			
(packed state)	Pre-wired Connector Models	Approx. 80 g	Approx. 110 g	Approx. 190 g			

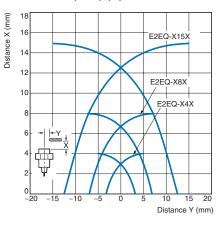
* The response frequency is an average value. Measurement conditions are as follows: standard sensing object, a distance of twice the standard sensing object, and a set distance of half the sensing distance.

Common Ratings and Performance

Model		E2EQ-X4X1 E2EQ-X4X1-M1(T)J E2EQ-X3D1 E2EQ-X3D1-M1(T)GJ	E2EQ-X8X1 E2EQ-X8X1-M1(T)J E2EQ-X7D1 E2EQ-X7D1-M1(T)GJ	E2EQ-X15X1 E2EQ-X15X1-M1(T)J E2EQ-X10D1 E2EQ-X10D1-M1(T)GJ			
Detectable o	bject	Ferrous metal (The sensing distance decreases with non-ferrous metal. Refer to <i>Engineering Data</i> on page 4.)					
Power suppl (operating vo	y voltage oltage range)	12 to 24 VDC (10 to 30 VDC), ripple (p-p): 10% max.					
Leakage curr	rent	0.8 mA max.					
Indicators		Operation indicator (red), Setting indicator (green)					
Ambient hun	nidity range	Operating/Storage: 35% to 95% (w	Operating/Storage: 35% to 95% (with no condensation)				
Insulation re	sistance	50 M Ω min. (at 500 VDC) between current-carrying parts and case					
Dielectric str	rength	1,000 VAC for 1 min between current-carrying parts and case					
Vibration res	sistance	Destruction: 10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions					
Degree of pre	otection	IEC 60529 IP67, in-house standards: oil-resistant					
	Case	Fluororesin coating (Base material:	brass)				
Materials	Sensing surface	Fluororesin					
Materials	Clamping nuts	Fluororesin coating (Base material: brass)					
	Toothed washer	Zinc-plated iron					
Accessories		Instruction manual					

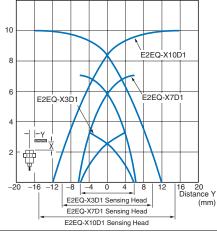
Engineering Data (Typical)

Sensing Area

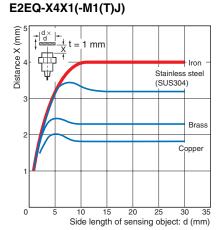


$\label{eq:E2EQ-X_X_C} E2EQ-X_X_(-M1(T)J) \ Shielded \ Models \ E2EQ-X_D_(-M1(T)GJ)$

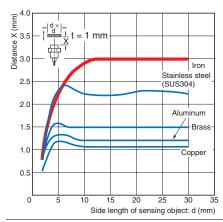
Distance X (mm)



Influence of Sensing Object Size and Material E2EQ-X8X1(-M1(T)J)



E2EQ-X3D1(-M1(T)GJ)



Distance X (mm) ____t t = 1 mm 'æ 8 Iron ₩ Stainless steel (SUS304) Brass Copper

20

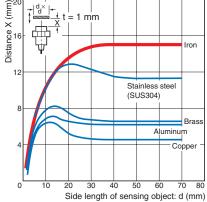
30

Side length of sensing object: d (mm)

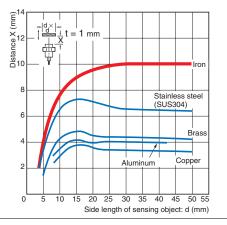
40

_ = 1 mm

E2EQ-X15X1(-M1(T)J)



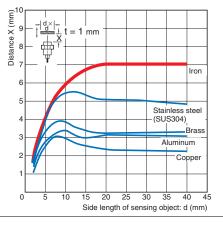
E2EQ-X10D1(-M1(T)GJ)



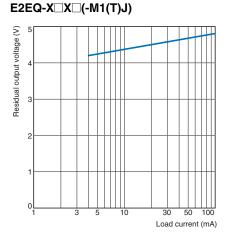
E2EQ-X7D1(-M1(T)GJ)

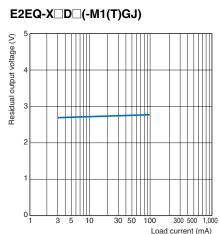
10

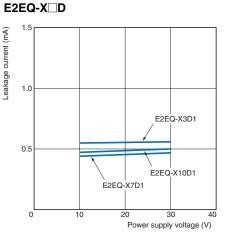
0



Residual Output Voltage



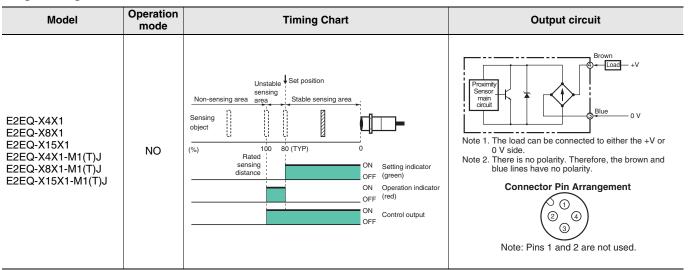




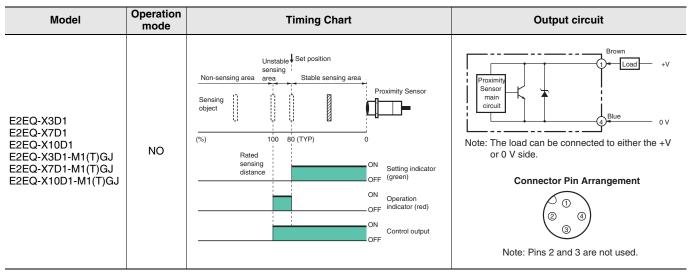
Leakage Current

I/O Circuit Diagrams

Long Sensing-distance Models

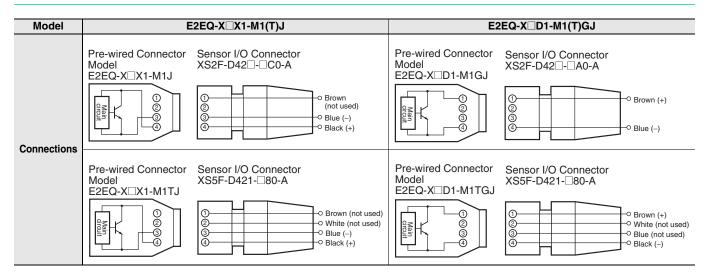


Standard Models



E2EQ

Pre-wired Connector Model Connections



Safety Precautions

Refer to Warranty and Limitations of Liability.

🔥 WARNING

This product is not designed or rated for ensuring safety of persons either directly or indirectly. Do not use it for such purposes.



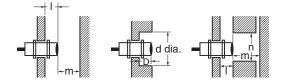
Precautions for Correct Use

Do not use this product under ambient conditions that exceed the ratings.

Design

Influence of Surrounding Metal

When mounting the Sensor within a metal panel, ensure that the clearances given in the following table are maintained. Failure to maintain these distances may cause deterioration in the performance of the Sensor.

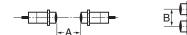


Influence of Surrounding Metal (Unit: mm)

Model Item	I	d	D	m	n
E2EQ-X4X1(-M1(T)J)	2.4	18	2.4	12	18
E2EQ-X8X1(-M1(T)J)	3.6	27	3.6	24	27
E2EQ-X15X1(-M1(T)J)	6	45	6	45	45
E2EQ-X3D1(-M1(T)GJ)		12		8	18
E2EQ-X7D1(-M1(T)GJ)	0	18	0	20	27
E2EQ-X10D1(-M1(T)GJ)		30	1	40	45

Mutual Interference

When installing two or more Sensors face-to-face or side-by-side, ensure that the minimum distances given in the following table are maintained.



Mutual Interference (Unit: mm)

Model	Item	Δ	В
Model	nem	~	<u> </u>
E2EQ-X4X1(-M1(T)J)		30	20
E2EQ-X8X1(-M1(T)J)		60	35
E2EQ-X15X1(-M1(T)J)		110	90
E2EQ-X3D1(-M1(T)GJ)		30	20
E2EQ-X7D1(-M1(T)GJ)		50	35
E2EQ-X10D1(-M1(T)GJ)		100	70

Mounting

Do not tighten the nut with excessive force. A washer must be used with the nut.





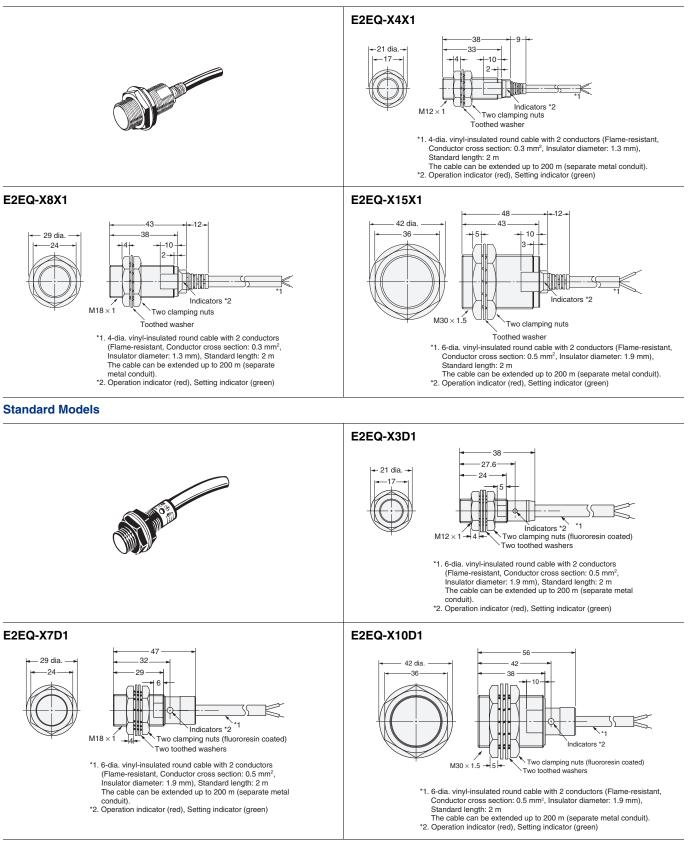
- Note: 1. The allowable tightening strength depends on the distance from the edge of the head, as shown in the following table. (A is the distance from the edge of the head. B includes the nut on the head side. If the edge of the nut is in part A, the tightening torque for part A applies instead.)
 - 2. The following torque assume washers are being used.

Torque	Part A		Part B
Model	Dimension (mm)	Torque	Torque
E2EQ-X4X1(-M1(T)J)		30 N⋅m	
E2EQ-X8X1(-M1(T)J)		70 N⋅m	
E2EQ-X15X1(-M1(T)J)		180 N·m	
E2EQ-X3D1(-M1(T)GJ)	24	15 N∙m	
E2EQ-X7D1(-M1(T)GJ)	29		
E2EQ-X10D1(-M1(T)GJ)	26	39 N∙m	78 N⋅m

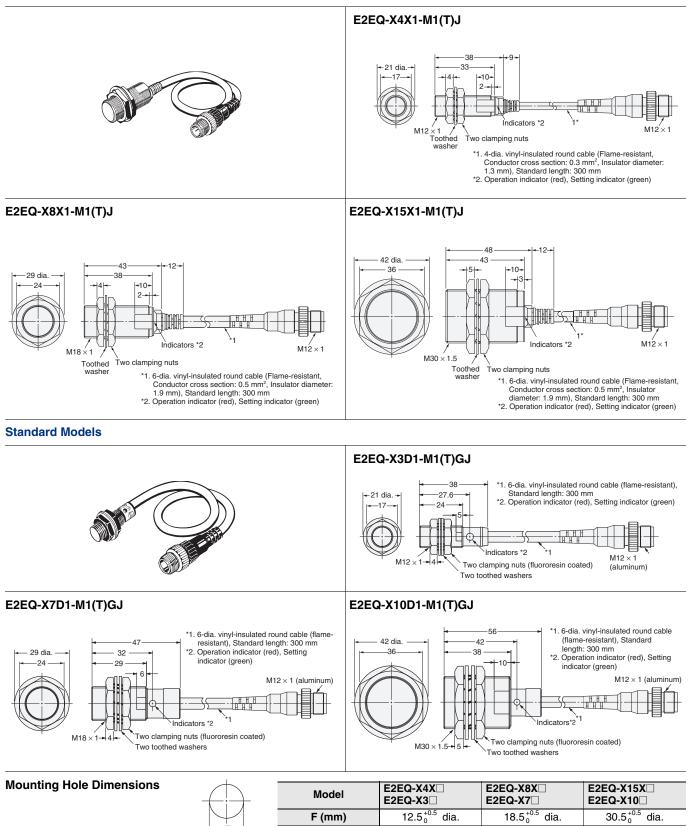
Dimensions

Pre-wired Models

Long Sensing-distance Models



Pre-wired Connector Models Long Sensing-distance Models



Terms and Conditions of Sale

- 1. Offer; Acceptance. These terms and conditions (these "Terms") are deemed part of all quotes, agreements, purchase orders, acknowledgments, price lists, catalogs, manuals, brochures and other documents, whether electronic or in catalogs, manuals, brochures and other documents, whether electronic or in writing, relating to the sale of products or services (collectively, the "Products") by Omron Electronics LLC and its subsidiary companies ("Omron"). 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. Prices: Payment Terms, All prices stated are current, subject to change without 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. Discounts, 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.
- 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 6 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 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
- 8. <u>Einancial</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 liabil-ity and in addition to other remedies) cancel any unshipped portion of Prod-ucts 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 unpaid accounts unpaid accounts.
- <u>Cancellation</u>, <u>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
- Force majeure. Other shall not be lable for any delay or lating in delivery 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.
 Shipping: Delivery. Unless otherwise expressly agreed in writing by Omron: a. Shipments shall be by a carrier selected by Omron; Omron will not drop ship expert in "break down" situations.
- except in "break down" situations. b. Such carrier shall act as the agent of Buyer and delivery to such carrier shall
 - 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. <u>Claims</u>. 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.
- <u>Warranties</u>. (a) <u>Exclusive Warranty</u>. 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 13 (b) <u>Limitations</u>. OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABIL-

Certain Precautions on Specifications and Use

- Suitability of Use. Omron Companies shall not be responsible for conformity 1. 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 Froduct. 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 Buyers 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 installicitors cubications of the consumer to construct the construction.

inent, 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-

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 http://www.omron247.com or contact your Omron representative for published information.

- Iished 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. <u>Property: Confidentiality.</u> Any intellectual property in the Products is the exclu-sive 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 provent disclosure to any third party. 16
- 17
- "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 signed by the parties. (e) Severability. If any provi-18 or waived unless in writing signed by the parties. (e) <u>Severability</u>. If any provision hereof is rendered ineffective or invalid, such provision shall not invalidate any other provision. (f) Setoff, 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 similar 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-2 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 accessions 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 confirm actual creating of purphased Product to confirm actual specifications of purchased Product. Errors and Omissions. Information presented by Omron Companies has been
- 5 checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.



OMRON INDUSTRIAL AUTOMATION • THE AMERICAS HEADQUARTERS

Schaumburg, IL USA • 847.843.7900 • 800.556.6766 • www.omron247.com

OMRON CANADA, INC. • HEAD OFFICE Toronto, ON, Canada • 416.286.6465 • 866.986.6766 • www.omron247.com

OMRON ELECTRONICS DE MEXICO • HEAD OFFICE México DF • 52.55.59.01.43.00 • 001.800.556.6766 • mela@omron.com

OMRON ELECTRONICS DE MEXICO • SALES OFFICE Apodaca, N.L. • 52.81.11.56.99.20 • 001.800.556.6766 • mela@omron.com

OMRON ELETRÔNICA DO BRASIL LTDA • HEAD OFFICE São Paulo, SP, Brasil • 55.11.2101.6300 • www.omron.com.br OMRON ARGENTINA • SALES OFFICE Cono Sur • 54.11.4783.5300

OMRON CHILE • SALES OFFICE Santiago • 56.9.9917.3920

OTHER OMRON LATIN AMERICA SALES 54.11.4783.5300

OMRON EUROPE B.V. • Wegalaan 67-69, NL-2132 JD, Hoofddorp, The Netherlands. • Tel: +31 (0) 23 568 13 00 Fax: +31 (0) 23 568 13 88 • www.industrial.omron.eu