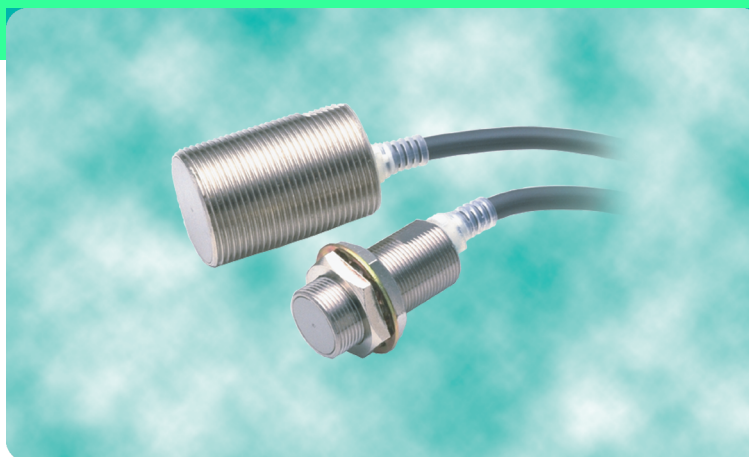


Short Barrel Inductive Prox

E2E 2-Wire DC

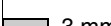
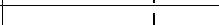
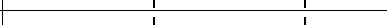
Reduce Wiring to Control Devices with Short-Barrel 2-Wire DC Prox Sensors

- Thick nickel-plated brass barrel has wrench flats for easy installation
- Solid potted internal circuitry withstands shocks and water washdown to IP67
- High visibility indicator
- Choose prewired or connector models



Ordering Information (Shaded models are normally stocked.)

Prewired Sensors

Self-diagnostic output function	Type	Size	Sensing distance	Model	
				NO (Note 1, 2)	NC
Yes	Shielded 	M12	 3 mm	E2E-X3D1S	—
		M18	 7 mm	E2E-X7D1S	—
		M30	 10 mm	E2E-X10D1S	—
	Unshielded 	M12	 8 mm	E2E-X8MD1S	—
		M18	 14 mm	E2E-X14MD1S	—
		M30	 20 mm	E2E-X20MD1S	—
No	Shielded 	M8	 2 mm	E2E-X2D1-N	E2E-X2D2-N
		M12	 3 mm	E2E-X3D1-N	E2E-X3D2-N
		M18	 7 mm	E2E-X7D1-N	E2E-X7D2-N
		M30	 10 mm	E2E-X10D1-N	E2E-X10D2-N
	Unshielded 	M8	 4 mm	E2E-X4MD1	E2E-X4MD2
		M12	 8 mm	E2E-X8MD1	E2E-X8MD2
		M18	 14 mm	E2E-X14MD1	E2E-X14MD2
		M30	 20 mm	E2E-X20MD1	E2E-X20MD2

Note: 1 . A different oscillating frequency is available. Add a "5" to the part number (e.g., E2E-X3D15-N).

2 . E2E sensors with robotic cable are available. Add a "-R" in the part number (e.g., E2E-X3D1-R).

Sensors With Built-in Connector

Connector size	Self-diagnostic output function	Type	Size	Sensing distance			Model	
							NO (Pins 1 and 4)	NC (Pins 1 and 2)
M12/Micro Change®	Yes		M12	 3 mm			E2E-X3D1S-M1	---
			M18	 7 mm			E2E-X7D1S-M1	---
			M30	 10 mm			E2E-X10D1S-M1	---
			M12	 8 mm			E2E-X8MD1S-M1	---
			M18	 14 mm			E2E-X14MD1S-M1	---
			M30	 20 mm			E2E-X20MD1S-M1	---
	No		M8	 2 mm			E2E-X2D1-M1G	E2E-X2D2-M1G
			M12	 3 mm			E2E-X3D1-M1G (See Note 1.)	E2E-X3D2-M1G
			M18	 7 mm			E2E-X7D1-M1G (See Note 1.)	E2E-X7D2-M1G
			M30	 10 mm			E2E-X10D1-M1G (See Note 1.)	E2E-X10D2-M1G
		M8	 4 mm			E2E-X4MD1-M1G	E2E-X4MD2-M1G	
		M12	 8 mm			E2E-X8MD1-M1G (See Note 1.)	E2E-X8MD2-M1G	
		M18	 14 mm			E2E-X14MD1-M1G (See Note 1.)	E2E-X14MD2-M1G	
		M30	 20 mm			E2E-X20MD1-M1G (See Note 1.)	E2E-X20MD2-M1G	
M8/Nano Change®			M8	 2 mm			E2E-X2D1-M3G	E2E-X2D2-M3G
				 4 mm			E2E-X4MD1-M3G	E2E-X4MD2-M3G

Note: 1. A different oscillating frequency is available. Add a "5" to the part number (e.g., E2E-X3D15-N).
2. E2E sensors with a "G" in the part number denotes alternate pin arrangement. Refer to the *Connections* section.
3. Connector cordsets: For MicroChange® use OMRON Y96E-44□□□; for NanoChange® use Omron XS3F-M42□-40□-R.

Sensor With Pigtail Connector

Type	Size	Sensing distance	Polarity	Model
				NO
Shielded	M12	 3 mm	Yes	E2E-X3D1-M1GJ
			No	E2E-X3D1-M1J-T
	M18	 7 mm	Yes	E2E-X7D1-M1GJ
			No	E2E-X7D1-M1J-T
	M30	 10 mm	Yes	E2E-X10D1-M1GJ
			No	E2E-X10D1-M1J-T
Unshielded	M12	 8 mm	Yes	E2E-X8MD1-M1GJ
	M18	 14 mm		E2E-X14MD1-M1GJ
	M30	 20 mm		E2E-X20MD1-M1GJ

Note: 1. A model with no polarity has a residual voltage of 5 V, which must be taken into consideration together with the interface condition (the PLC's ON voltage, for example) when connecting the proximity sensor to a load.
2. Connector cordsets: Use OMRON Y96E-44□D□.

Sensor With Four-Pin Connector

Type	Size	Sensing distance	Model	
			NO (Pins 3 and 4)	NC (Pins 2 and 3)
Shielded	M8	 2 mm	E2E-X2D1-M1	E2E-X2D2-M1
	M12	 3 mm	E2E-X3D1-M1	E2E-X3D2-M1
	M18	 7 mm	E2E-X7D1-M1	E2E-X7D2-M1
	M30	 10 mm	E2E-X10D1-M1	E2E-X10D2-M1
Unshielded	M8	 4 mm	E2E-X4MD1-M1	E2E-X4MD2-M1
	M12	 8 mm	E2E-X8MD1-M1	E2E-X8MD2-M1
	M18	 14 mm	E2E-X14MD1-M1	E2E-X14MD2-M1
	M30	 20 mm	E2E-X20MD1-M1	E2E-X20MD2-M1

Accessories

Description		Model
Mounting brackets	Fits M8 size sensors	Y92E-B8
	Fits M12 size sensors	Y92E-B12
	Fits M18 size sensors	Y92E-B18
	Fits M30 size sensors	Y92E-B30
Silicone rubber covers for shielded sensors	Fits M12 size sensors	Y92E-E12-2
	Fits M18 size sensors	Y92E-E18-2
	Fits M30 size sensors	Y92E-E30-2
Connector cordsets	See Y96E and XS Connector Cordsets data sheets for details	

Note: Use OMRON Y96E-44□D□ cordsets with M12 connector; use XS3F cordsets with M8 connector.

Replacement Parts

Description	Model
Mounting hardware including one pair of metal nuts and one washer	Fits M8 size sensors M8-MHWS
	Fits M12 size sensors M12-MHWS
	Fits M18 size sensors M18-MHWS
	Fits M30 size sensors M30-MHWS

Specifications

Ratings/Characteristics

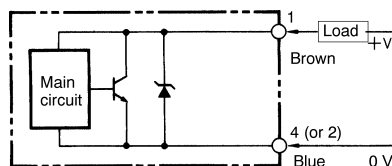
Model	E2E-X2D□	E2E-X4MD□	E2E-X3D□	E2E-X8MD□	E2E-X7D□	E2E-X14MD□	E2E-X10D□	E2E-X20MD□
Size	M8		M12		M18		M30	
Type	Shielded	Unshielded	Shielded	Unshielded	Shielded	Unshielded	Shielded	Unshielded
Sensing distance	2 mm (0.08 in) ±10%	4 mm (0.16 in) ±10%	3 mm (0.12 in) ±10%	8 mm (0.31 in) ±10%	7 mm (0.28 in) ±10%	14 mm (0.55 in) ±10%	10 mm (0.39 in) ±10%	20 mm (0.79 in) ±10%
Supply voltage (operating voltage)	12 to 24 VDC, ripple (p-p): 10% max., (10 to 30 VDC)							
Leakage current	0.8 mA max.							
Sensing object	Magnetic metals (refer to <i>Engineering Data</i> for non-magnetic metals)							
Setting distance	0 to 1.6 mm (0 to 0.06 in)	0 to 3.2 mm (0 to 0.13 in)	0 to 2.4 mm (0 to 0.09 in)	0 to 6.4 mm (0 to 0.25 in)	0 to 5.6 mm (0 to 0.22 in)	0 to 11.2 mm (0 to 0.44 in)	0 to 8.0 mm (0 to 0.31 in)	0 to 16.0 mm (0 to 0.63 in)
Standard object (mild steel)	8 x 8 x 1 mm (0.31 x 0.31 x 0.04 in)	20 x 20 x 1 mm (0.79 x 0.79 x 0.04 in)	12 x 12 x 1 mm (0.47 x 0.47 x 0.04 in)	30 x 30 x 1 mm (1.18 x 1.18 x 0.04 in)	18 x 18 x 1 mm (0.71 x 0.71 x 0.04 in)	30 x 30 x 1 mm (1.18 x 1.18 x 0.04 in)	30 x 30 x 1 mm (1.18 x 1.18 x 0.04 in)	54 x 54 x 1 mm (2.13 x 2.13 x 0.04 in)
Differential travel	15% max. of sensing distance		10% max. of sensing distance					
Response frequency	1.5 kHz	1.0 kHz	1.0 kHz	0.8 kHz	0.5 kHz	0.4 kHz	0.4 kHz	0.1 kHz
Operation (with target object approaching)	D1 models: Load ON D2 models: Load OFF							
Control output (switching capacity)	3 to 100 mA (5 to 100 mA with residual voltage of 5V for -M1J-T models) Diagnostic output: 50 mA for -D1S models							
Diagnostic output delay	0.3 to 1 s							
Circuit protection	Surge absorber, load short-circuit protection (for control and diagnostic output)							
Indicator	D1 models: Operation indicator (red LED), operation set indicator (green LED) D2 models: Operation indicator (red LED)							
Enclosure rating	IEC	IP67						
	NEMA	1, 4, 6, 12, 13						
Material	Body	Stainless steel		Brass				
	Sensing face	PBT						

Operation

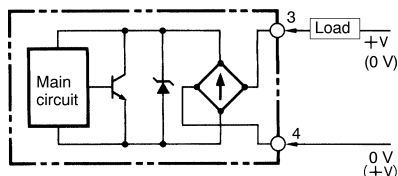
Output Circuits

E2E-X□D□ DC 2-wire Models

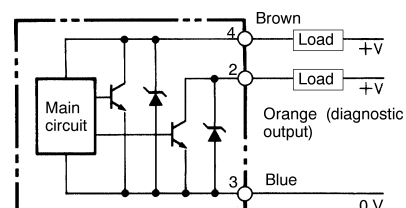
E2E-X□D□ Without Diagnostic Output



E2E-X□D1-M1J-T No Polarity



E2E-X□D1S Without Diagnostic Output



Note: 1. The load can be connected to either the +V or 0-V side.
2. The E2E-X□D1-M1J-T has no polarity. Therefore, terminals 3 and 4 have no polarity.

Dimensions

Unit: mm (inch)

Prewired Models (Shielded)

Fig. 1: E2E-X2D□

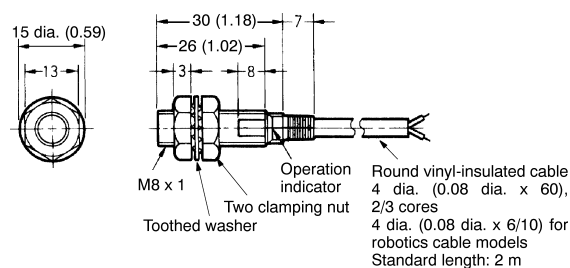
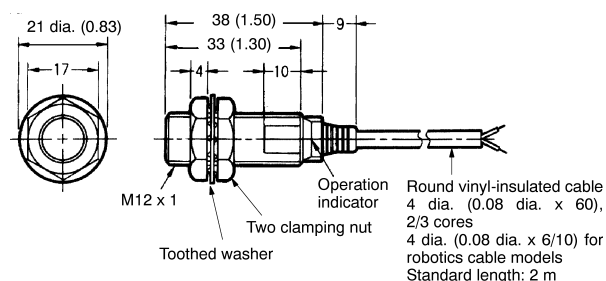


Fig. 3: E2E-X3D□



Prewired Models (Unshielded)

Fig. 2: E2E-X4MD□

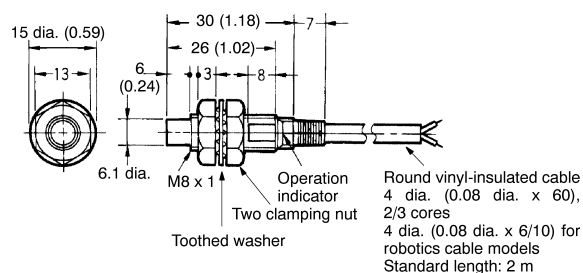
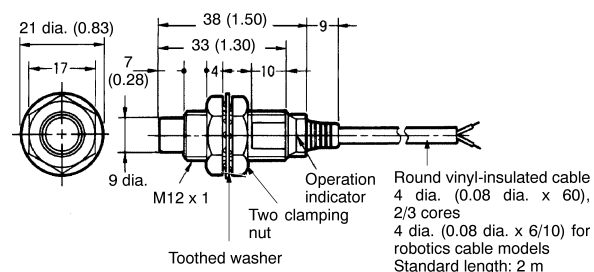


Fig. 4: E2E-X8MD□



Unit: mm (inch)

Prewired Models (Shielded)

Fig. 5: E2E-X7D

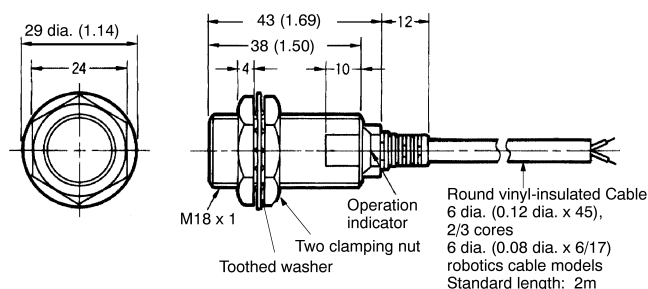
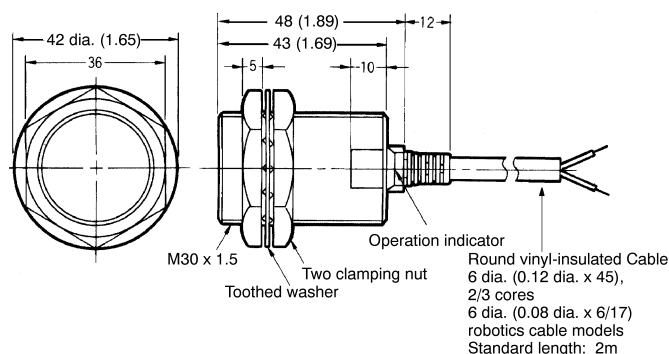


Fig. 7: E2E-X10D



Connector Models (Shielded)

Fig. 9: E2E-X2D-M1G

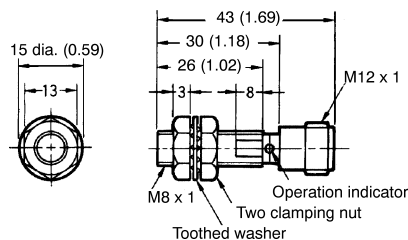


Fig. 11: E2E-X3D-M1G

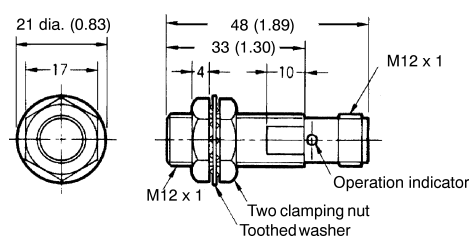
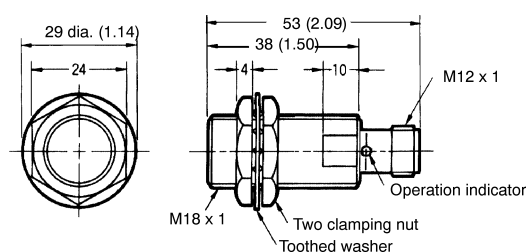


Fig. 13: E2E-X7D-M1G



Prewired Models (Unshielded)

Fig. 6: E2E-X14MD

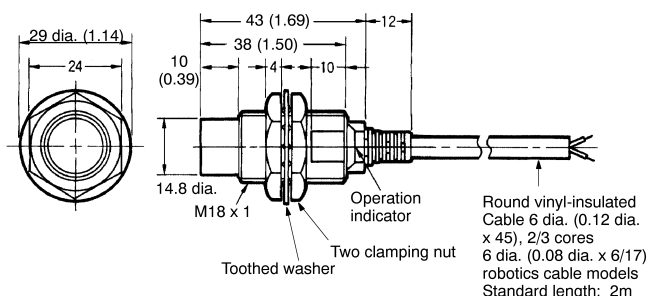
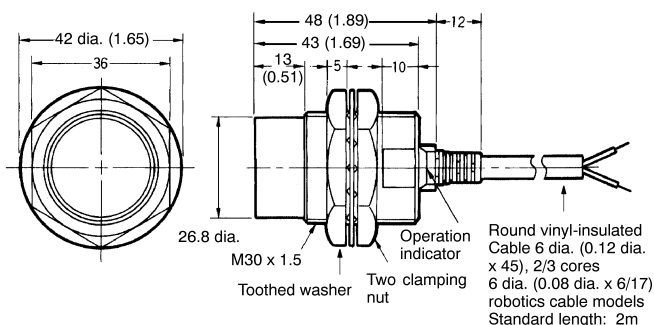


Fig. 8: E2E-X20MD



Connector Models (Unshielded)

Fig. 10: E2E-X4MD-M1G

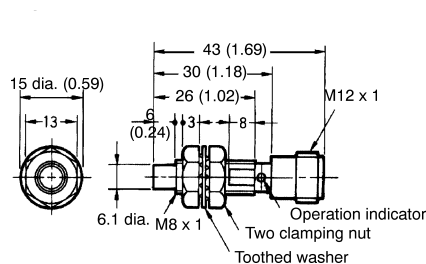


Fig. 12: E2E-X8MD-M1G

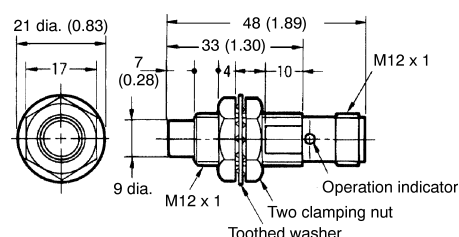
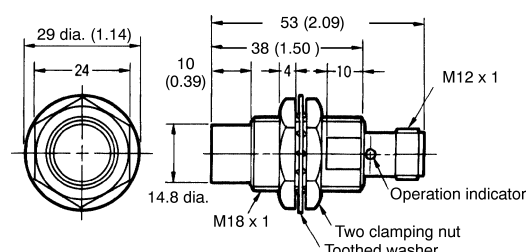


Fig. 14: E2E-X14MD-M1G



Unit: mm (inch)

Fig. 15: E2E-X10D□-M1G

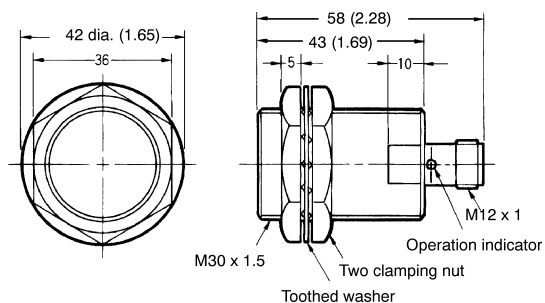
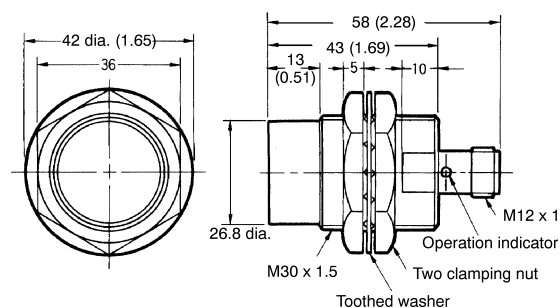
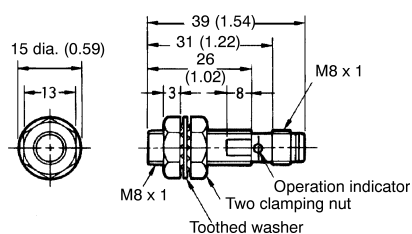


Fig. 16: E2E-X20MD□-M1G



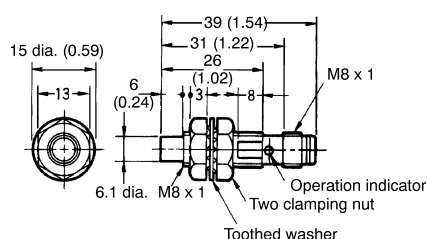
M8 Connector Models (Shielded)

Fig. 17: E2E-X2D□-M3G



M8 Connector Models (Unshielded)

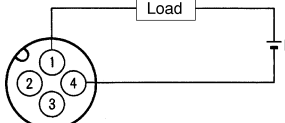
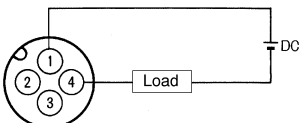
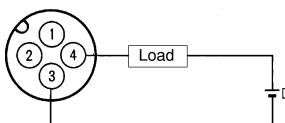
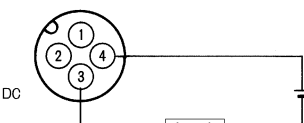
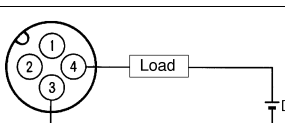
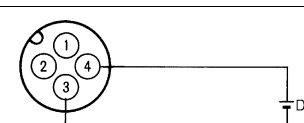
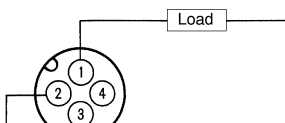
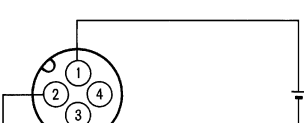
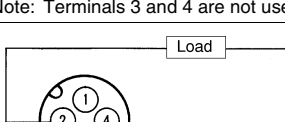
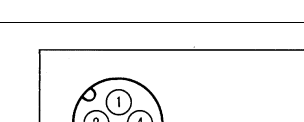
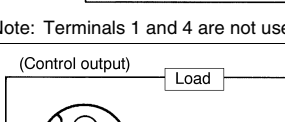
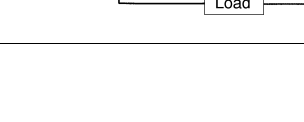
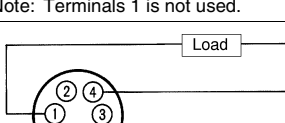
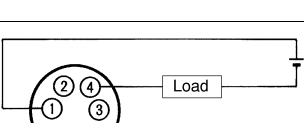
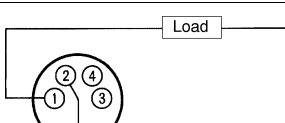
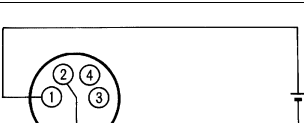
Fig. 18: E2E-X4MD□-M3G



Connection

Pin Arrangements

E2E-X□D□-M□ DC 2-wire Models

Connector	Self-diagnostic output	Output configuration	Applicable models	Pin arrangement
M12 Micro Change®	No	NO	E2E-X□D1-M1G□ (See Note.)	  Note: Terminals 2 and 3 are not used.
			E2E-X□D1-M1J-T	  Note: 1. Terminals 1 and 2 are not used. 2. Terminals 3 and 4 have no polarity.
			E2E-X□D1-M1	  Note: Terminals 1 and 2 are not used.
		NC	E2E-X□D2-M1G (See Note.)	  Note: Terminals 3 and 4 are not used.
			E2E-X□D2-M1	  Note: Terminals 1 and 4 are not used.
	Yes	NO	E2E-X□D1S-M1	(Control output)   Note: Terminal 1 is not used.
M8 Nano Change®	No	NO	E2E-X□D1-M3G	  Note: Terminals 2 and 3 are not used.
		NC	E2E-X□D2-M3G	  Note: Terminals 3 and 4 are not used.

Note: Pin arrangements conform to IEC standards.

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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 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.
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6. **Governmental Approvals.** Buyer shall be responsible for, and shall bear all costs involved in, obtaining any government approvals required for the importation or sale of the Products.
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8. **Financial.** 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 unpaid accounts.
9. **Cancellation; Etc.** Orders are not subject to rescheduling or cancellation unless Buyer indemnifies Omron against all related costs or expenses.
10. **Force Majeure.** Omron shall not be liable for any delay or failure 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.
11. **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 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 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 noting that the carrier received the Products from Omron in the condition claimed.
13. **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) **Limitations.** OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABILITY 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 otherwise of any intellectual property right. (c) **Buyer Remedy.** Omron's sole obligation 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 responsible for warranty, repair, indemnity or any other claims or expenses regarding the Products unless Omron's analysis confirms that the Products were properly handled, stored, installed and maintained and not subject to contamination, abuse, misuse or inappropriate modification. Return of any Products by Buyer must be approved in writing by Omron before shipment. Omron Companies 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://oeweb.omron.com> or contact your Omron representative for published information.
14. **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.
15. **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, investigation, litigation or proceeding (whether or not Omron is a party) which arises 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 settle 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.
16. **Property; Confidentiality.** 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.
17. **Export Controls.** Buyer shall comply with all applicable laws, regulations and licenses regarding (i) export of products or information; (ii) sale of products to "forbidden" or other proscribed persons; and (iii) disclosure to non-citizens of regulated technology or information.
18. **Miscellaneous.** (a) **Waiver.** 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) **Assignment.** Buyer may not assign its rights hereunder without Omron's written consent. (c) **Law.** 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) **Amendment.** 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 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) **Definitions.** As used herein, "including" means "including without limitation"; and "Omron Companies" (or similar words) mean Omron Corporation and any direct or indirect subsidiary or affiliate thereof.

Certain Precautions on Specifications and Use

1. **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 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 Product 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. 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 equipment, and installations subject to separate industry or government regulations.
 - (iv) Systems, machines and equipment that could present a risk to life or property. Please know and observe all prohibitions of use applicable to this Product.
 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 ADDRESS THE RISKS, AND THAT THE OMRON'S PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.
2. **Programmable Products.** Omron Companies shall not be responsible for the user's programming of a programmable Product, or any consequence thereof.
3. **Performance Data.** Data presented in Omron Company websites, catalogs and other materials is provided as a guide for the user in determining suitability 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 requirements. Actual performance is subject to the Omron's Warranty and Limitations of Liability.
4. **Change in Specifications.** Product specifications and accessories may be changed at any time based on improvements and other reasons. It is our practice to change part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the Product may be changed without any notice. When in doubt, special 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 specifications of purchased Product.
5. **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.

Complete "Terms and Conditions of Sale" for product purchase and use are on Omron's website at www.omron.com/oei – under the "About Us" tab, in the Legal Matters section.

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.



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