E2E

CSM_E2E_DS_E_12_4

Your Search for Proximity Sensors Starts with the World-leading Performance and Quality of the E2E

- Standard Sensors for detecting ferrous metals.
- Wide array of variations. Ideal for a variety of applications.
- Models with different frequencies are also available to prevent mutual interference.
- Superior environment resistance with standard cable made of oilresistant PVC and sensing surface made of material that resists cutting oil.
- Useful to help prevent disconnection.
 Cable protector provided as a standard feature.





For the most recent information on models that have been certified for safety standards, refer to your OMRON website.



Be sure to read *Safety Precautions* on page 25.

Features

2-Wire Models

Pre-wired Models with Oil-resistant Reinforced PUR Cables Added to the Lineup and Easy Differentiation with Orange Head



Differentiation from standard models: Orange Head



Oil Resistance (Insulation service life): twice or three times that of oil-resistant vinyl chloride

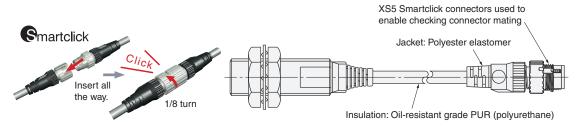


Cable Flexibility: approximately twice that of vinyl chloride cables



More Flexibility at −40°C

Lineup includes models with Smartclick pre-wired connectors for fast connection.



UL-recognized Models Available



Lineup includes models with self-diagnostic output to provide notification of failures and unstable detection conditions, such as coil burnout.

• Contributes to preventive maintenance to keep the line from stopping.

Reduced wiring, fewer resources, and low power consumption contribute to environmentalism.

- Wiring work and amount of copper wire used reduced to two thirds of that required for 3-wire models.
- Current consumption drastically reduced to less than 10% (when a DC 2-wire model is compared with a DC 3-wire model).

3-Wire Models

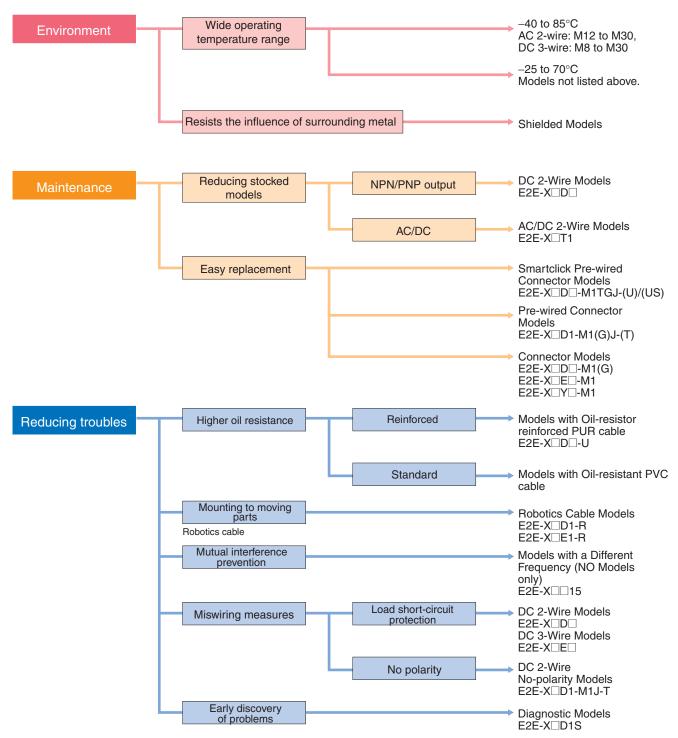
Wide range of ambient operating temperatures: -40°C to 85°C (M8 to M30 models)

• Suitable for low-temperature and high-temperature applications, which are troublesome for photoelectric sensors.

Lineup includes models with flexible cable (M8 to M30 models)

• Reduced risk of disconnection in applications with moving parts.

E2E Guide to Selection by Purpose



Note: Refer to Models Not Listed in this Catalog for Long Body Models, Transmission Couplers, and Power Couplers.

E2E Model Number Legend

E2E-	1	2	3	4	5	6	7	-	8	9	-	10	-	(11)	-	12		(13)	ı
------	---	---	---	---	---	---	---	---	---	---	---	----	---	------	---	----	--	------	---

No.	Classification	Remarks		
1	Appearance	Х	Cylindrical (threaded)	
	Canaina diatanas	Number	Sensing distance (Unit: mm)	Example:
2	Sensing distance	R	Indication of decimal point	1R5: 1.5 mm
	Chieldine	Blank	Shielded Model	
3	Shielding	М	Unshielded Model	
		В	DC 3-wire PNP open-collector output	
		С	DC 3-wire NPN open-collector output	
		D	DC 2-wire polarity/no polarity	Whether D models have
4	Power supply and output specifications	E	DC 3-wire NPN collector load built-in output	polarity is defined by num-
	specifications	F	DC 3-wire PNP collector load built-in output	ber ⑩.
		Т	AC/DC 2-wire	
		Υ	AC 2-wire	
	Form of output switching el-	1	Normally open (NO)	
(5)	ement	2	Normally closed (NC)	
	Oscillation fraguency type	Blank	Standard frequency	Used to prevent mutual in-
6	Oscillation frequency type	5	Different frequency	terference.
	Calf diagnasis	Blank	No	
7	Self-diagnosis	5	Yes	
		Blank	Pre-wired	
8	Connection method	M1	M12-size metal connector	
		МЗ	M8-size metal connector	
		Blank	Connector Model DC 3-wire and AC 2-wire, DC 2-wire with self-diagnosis output, DC 2-wire with old pin arrangement	
		G	Connector Model DC 2-wire with IEC pin arrangement	
9	Connector specifications	J	Pre-wired Connector Model DC 3-wire and AC 2-wire, DC 2-wire with old pin arrangement	
Ü	'	GJ	Pre-wired Connector Model DC 2-wire with IEC pin arrangement	
		TJ	Pre-wired Smartclick Connector Model DC 2-wire	
		TGJ	Pre-wired Smartclick Connector Model DC 2-wire with IEC pin arrangement	
	DO O mine and sails	Blank	Polarity	
10	DC 2-wire polarity	Т	No polarity	-
		Blank	Standard PVC cable (oil resistant)	
11)	Cable specifications	R	Flexible PVC cable (oil resistant)	-
		U	Polyurethane cable (oil resistant and reinforced)	-
12	New model	N	New model (Applies only to DC 2-wire pre-wired and shielded models.)	This is blank if the cable specification in number (1) is R or U.
	Standard-certified model	US	UL-recognized model (Applies to DC 2-wire pre-wired models and pre-wired connector models.)	
13	Cable length	Letter M	Cable length (Unit: m) (Applicable to Pre-wired Models and Pre-wired Connector Models.)	Example: 2M 0.3M

Note: The purpose of this model number legend is to provide understanding of the meaning of specifications from the model number. Models are not available for all combinations of code numbers.

Ordering Information

2-Wire Models

Shielded DC 2-wire Models with No Self-diagnostic Output [Refer to Dimensions on page 27.]



Appear- ance	Sensing distance	Connection method	Cable specifications	Polar- ity	Opera- tion mode	Pin arrangement	Applicable connector code *2	Model
		M12 Pre-wired Smart-	PUR (increased		NO	1: +V, 4: 0 V	Н	E2E-X2D1-M1TGJ-U 0.3M
		click Connector Mod-	oil-resistant)		NC	1: +V, 2: 0 V	п	E2E-X2D2-M1TGJ-U 0.3M
		els (0.3m)	PVC (oil-resistant)		NO	1: +V, 4: 0 V	G	E2E-X2D1-M1TGJ 0.3M
			PUR (increased		NO			E2E-X2D1-U 2M
		Pre-wired Models	oil-resistant)		NC			E2E-X2D2-U 2M
M8	2 mm	(2 m)	DVC (oil registent)	Yes	NO			E2E-X2D1-N 2M
			PVC (oil-resistant)		NC			E2E-X2D2-N 2M
		M12 Connector Mod-		1	NO	1: +V, 4: 0 V	Α	E2E-X2D1-M1G
		els			NC	1: +V, 2: 0 V	D	E2E-X2D2-M1G
		M8 Connector Models			NO	1: +V, 4: 0 V	1	E2E-X2D1-M3G
		Wio Confrector Wodels			NC	1: +V, 2: 0 V	1	E2E-X2D2-M3G
		M12 Pre-wired Smart-	PUR (increased		NO	1: +V, 4: 0 V	- 11	E2E-X3D1-M1TGJ-U 0.3M
		click Connector Mod-	oil-resistant)		NC	1: +V, 2: 0 V	Н	E2E-X3D2-M1TGJ-U 0.3M
		els (0.3m)	PVC (oil-resistant)		NO	1: +V, 4: 0 V	G	E2E-X3D1-M1TGJ 0.3M
			PUR (increased		NO			E2E-X3D1-U 2M
		Pre-wired Models	oil-resistant)	Yes	NC			E2E-X3D2-U 2M
		(2 m)	D) (0 (ii)		NO			E2E-X3D1-N 2M *1
M12	3 mm		PVC (oil-resistant)		NC			E2E-X3D2-N 2M
		M12 Connector Mod-		1	NO	1: +V, 4: 0 V	Α	E2E-X3D1-M1G *1
		els			NC	1: +V, 2: 0 V	D	E2E-X3D2-M1G
					NO	1: +V, 4: 0 V	Α	E2E-X3D1-M1GJ 0.3M
		M12 Standard Pre-		Yes	NC	1: +V, 2: 0 V	D	E2E-X3D2-M1GJ 0.3M
		wired Connector Mod- els (0.3 m)	- PVC (oil-resistant)		NO	(3, 4): (+V, 0 V)	С	E2E-X3D1-M1J-T 0.3M
				No *3	NC	(1, 2): (+V, 0 V)	D	
		M12 Pre-wired Smart-	PUR (increased		NO	1: +V, 4: 0 V		E2E-X7D1-M1TGJ-U 0.3M
		click Connector Mod-	d Smart- or Mod- PVC (oil-resistant) PUR (increased oil-resistant) PVC (oil-resistant) PUR (increased oil-resistant)		NC	1: +V, 2: 0 V	Н	E2E-X7D2-M1TGJ-U 0.3M
		els (0.3m)	PVC (oil-resistant)		NO	1: +V, 4: 0 V	G	E2E-X7D1-M1TGJ 0.3M
			PUR (increased		NO	, -		E2E-X7D1-U 2M
		Pre-wired Models		Yes	NC			E2E-X7D2-U 2M
		(2 m)	D) (O (''I ' ' ' ' ' ' ')		NO			E2E-X7D1-N 2M *1
M18	7 mm		PVC (oil-resistant)		NC			E2E-X7D2-N 2M
		M12 Connector Mod-		1	NO	1: +V, 4: 0 V	Α	E2E-X7D1-M1G *1
		els			NC	1: +V, 2: 0 V	D	E2E-X7D2-M1G
				V	NO	1: +V, 4: 0 V	Α	E2E-X7D1-M1GJ 0.3M
		M12 Standard Pre-	D) (O (''	Yes	NC	1: +V, 2: 0 V	D	E2E-X7D2-M1GJ 0.3M
		wired Connector Mod- els (0.3 m)	PVC (oil-resistant)	N. +0	NO	(3, 4): (+V, 0 V)	С	E2E-X7D1-M1J-T 0.3M
				No *3	NC	(1, 2): (+V, 0 V)	D	E2E-X7D2-M1J-T 0.3M
		M12 Pre-wired Smart-	PUR (increased		NO	1: +V, 4: 0 V		E2E-X10D1-M1TGJ-U 0.3M
		click Connector Mod-	oil-resistant)		NC	1: +V, 2: 0 V	Н	E2E-X10D2-M1TGJ-U 0.3M
		els (0.3m)	PVC (oil-resistant)		NO	1: +V, 4: 0 V	G	E2E-X10D1-M1TGJ 0.3M
			PUR (increased		NO			E2E-X10D1-U 2M
		Pre-wired Models	oil-resistant)	Yes	NC	1		E2E-X10D2-U 2M
		(2 m)	DVC (eil ===i=t== 1)		NO			E2E-X10D1-N 2M *1
M30	10 mm		PVC (oil-resistant)		NC	1		E2E-X10D2-N 2M
		M12 Connector Mod-		1	NO	1: +V, 4: 0 V	Α	E2E-X10D1-M1G *1
		els			NC	1: +V, 2: 0 V	D	E2E-X10D2-M1G
				V	NO	1: +V, 4: 0 V	Α	E2E-X10D1-M1GJ 0.3M
		M12 Standard Pre-	DVO (-il iiiiii	Yes	NC	1: +V, 2: 0 V	D	E2E-X10D2-M1GJ 0.3M
			PVC (oil-resistant)	t) No *3	NO	(3, 4): (+V, 0 V)	С	E2E-X10D1-M1J-T 0.3M
			N		NC	(1, 2): (+V, 0 V)	D	E2E-X10D2-M1J-T 0.3M

^{*1.} Models with different frequencies are also available. The model number is E2E-X □D15 (example: E2E-X3D15-N 2M).

*2. Refer to page 22 for details.

*3. The residual voltage for models without polarity is 5 V, so use caution concerning the connection load interface conditions (e.g., PLC ON voltage). Refer to page 26

Shielded DC 2-Wire UL-recognized Models with No Self-diagnostic Output [Refer to *Dimensions* on page 27.]



Appear- ance	Sensing distance		Connection method	Cable specifications	Polar- ity	Opera- tion mode	Pin arrangement	Applicable connector code *	Model
			M12 Pre-wired Smart-			NO	1: +V, 4: 0 V	G	E2E-X2D1-M1TGJ-US 0.3M
M8	M8 2 mm		click Connector Models (0.3 m)			NC	1: +V, 2: 0 V	G	E2E-X2D2-M1TGJ-US 0.3M
IVIO	2 111111		Pre-wired Models (2 m)			NO			E2E-X2D1-US 2M
			Fie-wired Models (2 III)			NC			E2E-X2D2-US 2M
			M12 Pre-wired Smart-			NO	1: +V, 4: 0 V	G	E2E-X3D1-M1TGJ-US 0.3M
M12	3 mm	click Connector Models (0.3 m)			NC	1: +V, 2: 0 V	G	E2E-X3D2-M1TGJ-US 0.3M	
	3 111111		Pre-wired Models (2 m)			NO			E2E-X3D1-US 2M
			Fie-wired Models (2 III)	PVC (oil-resistant)	Yes	NC			E2E-X3D2-US 2M
			M12 Pre-wired Smart-	FVC (oii-resistant)	res	NO	1: +V, 4: 0 V		E2E-X7D1-M1TGJ-US 0.3M
M18	7 mr	m	click Connector Models (0.3 m)			NC	1: +V, 2: 0 V	G	E2E-X7D2-M1TGJ-US 0.3M
IVITO	/ !!!!	"	Pre-wired Models (2 m)			NO			E2E-X7D1-US 2M
			Fie-wired Models (2 III)			NC			E2E-X7D2-US 2M
			M12 Pre-wired Smart-			NO	1: +V, 4: 0 V	0	E2E-X10D1-M1TGJ-US 0.3M
M30	10	0 mm	click Connector Models (0.3 m)			NC	1: +V, 2: 0 V	G	E2E-X10D2-M1TGJ-US 0.3M
M30	10	0 111111	mm	1		NO			E2E-X10D1-US 2M
			Pre-wired Models (2 m)			NC			E2E-X10D2-US 2M

^{*} Refer to page 22 for details.

Unshielded DC 2-Wire Models with No Self-diagnosis Output [Refer to Dimensions on page 27.]



Appear- ance	Sensing distance		Connection method	Cable specifications	Polar- ity	Opera- tion mode	Pin arrangement	Applicable connector code *2	Model		
			Pre-wired Models (2 m)	PVC (oil-resistant)		NO			E2E-X4MD1 2M		
			Fie-wired Models (2 III)	PVC (oii-resistant)		NC			E2E-X4MD2 2M		
M8	4 mm		M12 Connector Models			NO	1: +V, 4: 0 V	Α	E2E-X4MD1-M1G		
IVIO	4 111111		WITZ CONNECTOR WIOGEIS			NC	1: +V, 2: 0 V	D	E2E-X4MD2-M1G		
			M8 Connector Models			NO	1: +V, 4: 0 V	1	E2E-X4MD1-M3G		
			IVIO COTTIECTOT IVIOGEIS			NC	1: +V, 2: 0 V		E2E-X4MD2-M3G		
			M12 Pre-wired Smart- click Connector Models (0.3m)	PVC (oil-resistant)		NO	1: +V, 4: 0 V	G	E2E-X8MD1-M1TGJ 0.3M		
			Pre-wired Models (2 m)	PVC (oil-resistant)		NO			E2E-X8MD1 2M *1		
M12	0		Fie-wired Models (2 III)	PVC (oii-resistant)		NC			E2E-X8MD2 2M		
IVITZ	8 mm		M12 Connector Models			NO	1: +V, 4: 0 V	Α	E2E-X8MD1-M1G *1		
			WITZ CONNECTOR WIOGEIS			NC	1: +V, 2: 0 V	D	E2E-X8MD2-M1G		
			M12 Standard Pre-	DVO (-ili-tt)		NO	1: +V, 4: 0 V	Α	E2E-X8MD1-M1GJ 0.3M		
			wired Connector Mod- els (0.3 m)	PVC (oil-resistant)		NC	1: +V, 2: 0 V	D			
			M12 Pre-wired Smart- click Connector Models (0.3m)	PVC (oil-resistant)	Yes	NO	1: +V, 4: 0 V	G	E2E-X14MD1-M1TGJ 0.3M		
		Pre-wired Models (2 m)	DVC (oil registant)		NO			E2E-X14MD1 2M *1			
M18	4.4		Pre-wired Models (2 m) PV	PVC (oil-resistant)		NC			E2E-X14MD2 2M		
MIS	14 mm		۱	۱	M12 Connector Models			NO	1: +V, 4: 0 V	Α	E2E-X14MD1-M1G *1
			W12 Connector Wodels			NC	1: +V, 2: 0 V	D	E2E-X14MD2-M1G		
			M12 Standard Pre-	D)(O (-ili-tt)		NO	1: +V, 4: 0 V	Α	E2E-X14MD1-M1GJ 0.3M		
			wired Connector Mod- els (0.3 m)	PVC (oil-resistant)		NC	1: +V, 2: 0 V	D	E2E-X14MD2-M1GJ 0.3M		
			M12 Pre-wired Smart- click Connector Models (0.3m)	PVC (oil-resistant)		NO	1: +V, 4: 0 V	G	E2E-X20MD1-M1TGJ 0.3M		
			Due video d Mardala (C.)	DVO (sil sessio) "		NO			E2E-X20MD1 2M *1		
M30	00		Pre-wired Models (2 m)	PVC (oil-resistant)		NC			E2E-X20MD2 2M		
IVISU	20	0 mm	1	1	M12 Connector Models			NO	1: +V, 4: 0 V	Α	E2E-X20MD1-M1G *1
			IVI IZ Connector IVIOGEIS			NC	1: +V, 2: 0 V	D	E2E-X20MD2-M1G		
			M12 Standard Pre-	D) (O ('il ')		NO	1: +V, 4: 0 V	Α	E2E-X20MD1-M1GJ 0.3M		
			wired Connector Models (0.3 m)	PVC (oil-resistant)		NC	1: +V, 2: 0 V	D			

^{*1.} Models with different frequencies are also available. The model number is E2E-X \(\subseteq D15 \) (example: E2E-X8MD15 2M).
*2. Refer to page 22 for details.

Unshielded DC 2-Wire UL-recognized Models with No Self-diagnostic Output [Refer to Dimensions on page 27.]



Appear- ance	Sensing distance		Connection method	Cable specifications	Polar- ity	Opera- tion mode	Pin arrangement	Applicable connector code *	Model
			M12 Pre-wired Smart- click Connector Models			NO	1: +V, 4: 0 V	G	E2E-X4MD1-M1TGJ-US 0.3M
M8	4 mm		(0.3 m)			NC	1: +V, 2: 0 V	G	E2E-X4MD2-M1TGJ-US 0.3M
IVIO	4 111111		Pre-wired Models (2 m)			NO			E2E-X4MD1-US 2M
			Fie-wired Models (2 III)			NC			E2E-X4MD2-US 2M
			M12 Pre-wired Smart-			NO	1: +V, 4: 0 V	G	E2E-X8MD1-M1TGJ-US 0.3M
M12	8 mm	click Connector Models (0.3 m)			NC	1: +V, 2: 0 V	G	E2E-X8MD2-M1TGJ-US 0.3M	
IVIIZ	0 111111		Pre-wired Models (2 m)		N	NO			E2E-X8MD1-US 2M
			Fie-wired Models (2 III)	PVC (oil-resistant)		NC			E2E-X8MD2-US 2M
			M12 Pre-wired Smart-	FVC (oii-resistant)	res	NO	1: +V, 4: 0 V	_	E2E-X14MD1-M1TGJ-US 0.3M
M18	14 r	nm	click Connector Models (0.3 m)			NC	1: +V, 2: 0 V	G	E2E-X14MD2-M1TGJ-US 0.3M
IVITO	141		Pre-wired Models (2 m)			NO			E2E-X14MD1-US 2M
			Fie-wired Models (2 III)			NC			E2E-X14MD2-US 2M
			M12 Pre-wired Smart-			NO	1: +V, 4: 0 V	0	E2E-X20MD1-M1TGJ-US 0.3M
M30	0	20 mm	click Connector Models (0.3 m)			NC	1: +V, 2: 0 V	G	E2E-X20MD2-M1TGJ-US 0.3M
11.00		∠∪ rnm	J mm			NO			E2E-X20MD1-US 2M
			Pre-wired Models (2 m)			NC			E2E-X20MD2-US 2M

^{*} Refer to page 22 for details.

Shielded DC 2-Wire Models with Self-diagnosis Output [Refer to Dimensions on page 27.]



Appear- ance	Sensing distance	Connection method	Cable specifications	Polar- ity	Opera- tion mode	Pin arrangement	Applicable connector code *2	Model
		Pre-wired Models (2 m)	PVC (oil-resistant)					E2E-X3D1S 2M *1
M12	3 mm	M12 Connector Models				2: +V and diagnostic output 3: 0 V 4: +V and control output	D	E2E-X3D1S-M1
		Pre-wired Models (2 m)	PVC (oil-resistant)		NO			E2E-X7D1S 2M *1
M18	7 mm	M12 Connector Models		Yes		2: +V and diagnostic output 3: 0 V 4: +V and control output	D	E2E-X7D1S-M1
-		Pre-wired Models (2 m)	PVC (oil-resistant)					E2E-X10D1S 2M *1
M30	10 mm	M12 Connector Models				2: +V and diagnostic output 3: 0 V 4: +V and control output	D	E2E-X10D1S-M1

^{*1.} Models with different frequencies are also available. The model number is E2E-X □D15S (example: E2E-X3D15S 2M). *2. Refer to page 22 for details.

Unshielded DC 2-Wire Models with Self-diagnosis Output [Refer to Dimensions on page 27.]



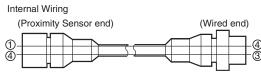
Appear- ance	Sensing distance	Connection method	Cable specifications	Polar- ity	Opera- tion mode	Pin arrangement	Applicable connector code *2	Model							
		Pre-wired Mod- els (2 m)	PVC (oil-resistant)					E2E-X8MD1S 2M *1							
M12	8 mm	M12 Connector Models						2: +V and diagnostic output 3: 0 V 4: +V and control output	D E2E-X8M I						
		Pre-wired Mod- els (2 m)	PVC (oil-resistant)		s NO			E2E-X14MD1S 2M *1							
M18	14 mm	M12 Connector Models				2: +V and diagnostic output 3: 0 V 4: +V and control output	D	E2E-X14MD1S-M1							
		Pre-wired Mod- els (2 m)	PVC (oil-resistant)												
M30	20 mm	M12 Connector Models				2: +V and diagnostic output 3: 0 V 4: +V and control output	D	E2E-X20MD1S-M1							

^{*1.} Models with different frequencies are also available. The model number is E2E-X \(\sum MD15S \) (example: E2E-X8MD15S 2M).

Connector Pin Assignments of DC 2-Wire Models

- The connector pin assignments of each New E2E DC 2-Wire Model conform to IEC 947-5-2 Table III. (Only DC 2-Wire Models have been changed in comparison to the previous models.)
- The following models with conventional connector pin assignments are available as well. (Only NO Models can be used.)
 The cable at the right should also be used if the XW3D-P□55-G11/XW3B-P□55-G11 Connector Junction Box is already being used.

Cable length	Model
500 mm	XS2W-D421-BY1



Models with conventional connector pin assignments are available as well.

Appeara	noo		Mo	del		
Арреага	ilice	NO	Applicable connector code *	NC	Applicable connector code *	
	M8	E2E-X2D1-M1	С	E2E-X2D2-M1	D	
Shielded	M12	E2E-X3D1-M1	С	E2E-X3D2-M1	D	
	M18	E2E-X7D1-M1	С	E2E-X7D2-M1	D	
	M30	E2E-X10D1-M1	С	E2E-X10D2-M1	D	
	M8	E2E-X4MD1-M1	С	E2E-X4MD2-M1	D	
Unshielded	M12	E2E-X8MD1-M1	С	E2E-X8MD2-M1	D	
	M18	E2E-X14MD1-M1	С	E2E-X14MD2-M1	D	
	M30	E2E-X20MD1-M1	С	E2E-X20MD2-M1	D	

^{*} Refer to page 22 for details.

^{*2.} Refer to page 22 for details.

AC 2-Wire Models Shielded Models [Refer to Dimensions on page 27.]



Appear- ance	Sei	nsing distance	Connection method	Cable specifications	Operation mode	Pin arrangement	Applicable con- nector code *2	Model
M8	-		Pre-wired Models	PVC (oil-resistant)	NO			E2E-X1R5Y1 2M
IVIO	1.5 m	im	(2 m)	PVC (oii-resistant)	NC			E2E-X1R5Y2 2M
			Pre-wired Models (2 m)	PVC (oil-resistant)	NO			E2E-X2Y1 2M *1
M12	- 0			PVC (oii-resistant)	NC			E2E-X2Y2 2M
IVIIZ	M12 2 mn	1	M12 Connector Models		NO	(3, 4): (AC, AC)	E	E2E-X2Y1-M1
					NC	(1, 2): (AC, AC)	F	E2E-X2Y2-M1
			Pre-wired Models (2 m)	PVC (oil-resistant)	NO			E2E-X5Y1 2M *1
M18	5 m				NC			E2E-X5Y2 2M
IVITO	5 II		M12 Connector		NO	(3, 4): (AC, AC)	E	E2E-X5Y1-M1
			Models		NC	(1, 2): (AC, AC)	F	E2E-X5Y2-M1
			Pre-wired Models	PVC (oil-resistant)	NO			E2E-X10Y1 2M *1
M30		10	(2 m)	r v c (oii-resistant)	NC			E2E-X10Y2 2M
IVISU		10 mm	M12 Connector		NO	(3, 4): (AC, AC)	E	E2E-X10Y1-M1
			Models		NC	(1, 2): (AC, AC)	F	E2E-X10Y2-M1

^{*1.} Models with different frequencies are also available. The model number is E2E-X \Box Y \Box 5 (example: E2E-X5Y15 2M).

Unshielded Models



Appear- ance	Sei	nsing di	stance	Connection method	Cable specifications	Operation mode	Pin arrangement	Applicable con- nector code *2	Model	
M8	- 0			Pre-wired Models	PVC (oil-resistant)	NO			E2E-X2MY1 2M	
IVIO	2 mm	1		(2 m)	r vo (oii-resistant)	NC			E2E-X2MY2 2M	
				Pre-wired Models	PVC (oil-resistant)	NO			E2E-X5MY1 2M *1	
M12	E			(2 m)	r vo (oii-resistant)	NC			E2E-X5MY2 2M	
IVIIZ	5 mm			M12 Connector		NO	(3, 4): (AC, AC)	E	E2E-X5MY1 2M	
				Models		NC	(1, 2): (AC, AC)	F	E2E-X5MY2-M1	
	10	10		Pre-wired Models	PVC (oil-resistant)	NO			E2E-X10MY1 2M *1	
M18			10	40	10	10	(2 m)	PVC (oii-resistant)	NC	
IVITO		10 mm		M12 Connector		NO	(3, 4): (AC, AC)	E	E2E-X10MY1-M1	
				Models		NC	(1, 2): (AC, AC)	F	E2E-X10MY2-M1	
				Pre-wired Models	PVC (oil-resistant)	NO			E2E-X18MY1 2M *1	
M30			18 mm	(2 m)	i vo (oii-lesisialii)	NC	- 		E2E-X18MY2 2M	
IVIOU			10 111111	M12 Connector		NO	(3, 4): (AC, AC)	E	E2E-X18MY1-M1	
				Models		NC	(1, 2): (AC, AC)	F	E2E-X18MY2-M1	

^{*1.} Models with different frequencies are also available. The model number is E2E-X □MY□5 (example: E2E-X5MY15 2M). *2. Refer to page 22 for details.

AC 2-Wire Models Shielded Models [Refer to Dimensions on page 27.] (There are no unshielded models.)



Appear- ance	Sensing distance	Connection method	Cable specifications	Operation mode	Pin arrangement	Applicable connector code	Model
M12	3 mm	Pre-wired Models (2 m)	PVC (oil-resis- tant)				E2E-X3T1 2M
M18	7 mm	Pre-wired Models (2 m)	PVC (oil-resis- tant)	NO			E2E-X7T1 2M
M30	10 mm	Pre-wired Models (2 m)	PVC (oil-resis- tant)				E2E-X10T1 2M

^{*2.} Refer to page 22 for details.

Shielded DC 3-Wire Models [Refer to *Dimensions* on page 27.]



				Oshla	0		Appli-	Мо	del
Appear- ance	Sensing dista	nce	Connection method	Cable specifica-tions	Opera- tion mode	Pin arrangement	cable connec- torcode *2	NPN output	PNP output
			Pre-wired Models				E2E-X1R5E1 2M	E2E-X1R5F1 2M	
			(2 m)	PVC (oil-re- sistant)	NC			E2E-X1R5E2 2M	E2E-X1R5F2 2M
M8	4.5	M12 Connector Models M8 Connector Models			NO	1: +V, 3: 0 V, 4: Control output	В	E2E-X1R5E1-M1	E2E-X1R5F1-M1
M8 1.5 mm	1.5 mm		Models		NC	1: +V, 3: 0 V, 2: Control output	D	E2E-X1R5E2-M1	E2E-X1R5F2-M1
			M8 Connector	NO	1: +V, 3: 0 V, 4: Control output		E2E-X1R5E1-M3	E2E-X1R5F1-M3	
			Models		NC	1: +V, 3: 0 V, 2: Control output	'	E2E-X1R5E2-M3	E2E-X1R5F2-M3
			Pre-wired Models	PVC (oil-re-	NO			E2E-X2E1 2M *1	E2E-X2F1 2M *1
		(2 m)		sistant)	NC			E2E-X2E2 2M	E2E-X2F2 2M
M12	2 mm	mm	M12 Connector Models		NO	1: +V, 3: 0 V, 4: Control output	В	E2E-X2E1-M1	E2E-X2F1-M1
					NC	1: +V, 3: 0 V, 2: Control output	D	E2E-X2E2-M1	E2E-X2F2-M1
			Pre-wired Models	PVC (oil-re-	NO			E2E-X5E1 2M *1	E2E-X5F1 2M *1
			(2 m)	sistant) NC				E2E-X5E2 2M	E2E-X5F2 2M
M18	5 mm		M12 Connector		NO	1: +V, 3: 0 V, 4: Control output	В	E2E-X5E1-M1	E2E-X5F1-M1
			Models		NC	1: +V, 3: 0 V, 2: Control output	D	E2E-X5E2-M1	E2E-X5F2-M1
			Pre-wired Models	PVC (oil-re-	NO			E2E-X10E1 2M *1	E2E-X10F1 2M
			(2 m)	sistant)	NC			E2E-X10E2 2M	E2E-X10F2 2M
M30	10 mm) mm M12 Connector			NO	1: +V, 3: 0 V, 4: Control output	В	E2E-X10E1-M1	E2E-X10F1-M1
			Models		NC	1: +V, 3: 0 V, 2: Control output	D	E2E-X10E2-M1	E2E-X10F2-M1

^{*1.} Models with different frequencies are also available. The model number is E2E-X□□□5 (example: E2E-X5E15 2M). *2. Refer to page 22 for details.

Unshielded DC 3-Wire Models [Refer to *Dimensions* on page 27.]



					0		Appli-	Mo	del	
Appear- ance	Sensing dis	tance	Connection method	Cable specifications	Opera- tion mode	Pin arrangement	cable connec- torcode *2	NPN output	PNP output	
			Pre-wired Models	PVC (oil-resis-	NO			E2E-X2ME1 2M	E2E-X2MF1 2M	
			(2 m)	tant)	NC			E2E-X2ME2 2M	E2E-X2MF2 2M	
			M12 Connector		NO	1: +V, 3: 0 V, 4: Control output	В	E2E-X2ME1-M1	E2E-X2MF1-M1	
M8	2 mm		Models		NC	1: +V, 3: 0 V, 2: Control output	D	E2E-X2ME2-M1	E2E-X2MF2-M1	
				M8 Connector		NO	1: +V, 3: 0 V, 4: Control output		E2E-X2ME1-M3	E2E-X2MF1-M3
			Models		NC	1: +V, 3: 0 V, 2: Control output	•	E2E-X2ME2-M3	E2E-X2MF2-M3	
			Pre-wired Models	PVC (oil-resis-	NO			E2E-X5ME1 2M *1	E2E-X5MF1 2M	
			(2 m)	tant)	NC			E2E-X5ME2 2M	E2E-X5MF2 2M	
M12	5 mm	M1:	M12 Connector		NO	1: +V, 3: 0 V, 4: Control output	В	E2E-X5ME1-M1	E2E-X5MF1-M1	
			Models		NC	1: +V, 3: 0 V, 2: Control output	D	E2E-X5ME2-M1	E2E-X5MF2-M1	
			Pre-wired Models	PVC (oil-resis-	NO			E2E-X10ME1 2M *1	E2E-X10MF1 2M	
			(2 m)	tant)	NC			E2E-X10ME2 2M	E2E-X10MF2 2M	
M18	10 mm		M12 Connector		NO	1: +V, 3: 0 V, 4: Control output	В	E2E-X10ME1-M1	E2E-X10MF1-M1	
			Models		NC	1: +V, 3: 0 V, 2: Control output	D	E2E-X10ME2-M1	E2E-X10MF2-M1	
			Pre-wired Models	PVC (oil-resis-	NO			E2E-X18ME1 2M *1	E2E-X18MF1 2M	
			(2 m)	tant)	NC			E2E-X18ME2 2M	E2E-X18MF2 2M	
M30		18 mm	M12 Connector		NO	1: +V, 3: 0 V, 4: Control output	В	E2E-X18ME1-M1	E2E-X18MF1-M1	
			Models		NC	1: +V, 3: 0 V, 2: Control output	D	E2E-X18ME2-M1	E2E-X18MF2-M1	

^{*1.} Models with different frequencies are also available. The model number is E2E-X□M□□5 (example: E2E-X5ME15 2M). *2. Refer to page 22 for details.

Ratings and Specifications

E2E-XDD DC 2-Wire Models

	Size	N	/18	М	12	M	18	V	130			
	Shielded	Shielded	Unshielded	Shielded	Unshielded	Shielded	Unshielded	Shielded	Unshielded			
Item	Model	E2E-X2D□	E2E-X4MD□	E2E-X3D□	E2E-X8MD□	E2E-X7D□	E2E-X14MD□	E2E-X10D	E2E-X20MD			
Sensing	distance	2 mm ±10%	4 mm ±10%	3 mm ±10%	8 mm ±10%	7 mm ±10%	14 mm ±10%	10 mm ±10%	20 mm ±10%			
Set dista	nce *1	0 to 1.6 mm	0 to 3.2 mm	0 to 2.4 mm	0 to 6.4 mm	0 to 5.6 mm	0 to 11.2 mm	0 to 8 mm	0 to 16 mm			
Different	tial travel	15% max. of ser	nsing distance	10% max. of ser	nsing distance	I			-1			
Detectal	ole object	Ferrous metal (1	Ferrous metal (The sensing distance decreases with non-ferrous metal. Refer to Engineering Data on pages 17 and 18.									
Standaro object	d sensing	Iron, 8 × 8 × 1 mm	Iron, 20 × 20 × 1 mm	Iron, 12 × 12 × 1 mm	Iron, 30 × 30 × 1 mm	Iron, 18 × 18 × 1 mm	mm Iron, $30 \times 30 \times 1$ mm Iron, $54 \times 54 \times$					
Respons	se frequency	1.5 kHz	1 kHz		0.8 kHz	0.5 kHz	0.4 kHz					
	upply voltage ng voltage	Standard Models: 12 to 24 VDC, ripple (p-p): 10% max. (10 to 30 VDC) US Models and Connector Models Used as UL-certified Models: 12 to 24 VDC, ripple (p-p): 10% max. (The operating voltage range is also the same.) *3										
Leakage	current	0.8 mA max.										
	Load current	3 to 100 mA, Dia	3 to 100 mA, Diagnostic output: 50 mA for -D1(5)S Models									
Control output	Residual voltage *4	3 V max. (Load	3 V max. (Load current: 100 mA, Cable length: 2 m, M1J-T Models only: 5 V max.)									
Indicato	rs		eration indicator (r eration indicator (r	ed) and setting ined)	dicator (green)							
Operatio (with ser approac	nsing object	D1 Models: NO D2 Models: NC	Refer to the ti	ming charts unde	r I/O Circuit Diagr	ams on page 20 f	or details.					
Diagnos delay	tic output	0.3 to 1 s										
Protection	on circuits	Surge suppress	or, Load short-cire	cuit protection (for	control and diag	nostic output)						
Ambient tempera	ture range	Operating: -25 t	to 70°C, Storage:	-40 to 85°C (with	no icing or conde	ensation)						
Ambient humidity		Operating/storag	ge: 35% to 95% (v	with no condensat	tion)							
Tempera influence		±15% max. of seat 23°C in the tent of -25 to 70°C	ensing distance mperature range	±10% max. of se	ensing distance a	: 23°C in the temp	perature range of	–25 to 70°C				
Voltage	influence	±1% max. of ser	nsing distance at	rated voltage in th	e rated voltage \pm	15% range						
Insulatio	n resistance	50 MΩ min. (at 5	500 VDC) betwee	n current-carrying	parts and case							
Dielectri	c strength	1000 VAC, 50/6	0 Hz for 1 minute	between current	carry parts and ca	ise						
Vibratio	n resistance	Destruction: 10	to 55 Hz, 1.5-mm	double amplitude	for 2 hours each	in X, Y, and Z dir	ections					
Shock re	esistance	Destruction: 500 10 times each in Z directions		Destruction: 1,0	00 m/s ² 10 times	each in X, Y, and	Z directions					
Degree o	of protection		ls: IEC 60529 IP6 els: IEC 60529 IP	7, in-house stand 67	ards: oil-resistant							
Connect	ion method	Pre-wired Mode	ls (Standard cable	e length: 2 m), Co	nnector Models, o	or Pre-wired Conr	nector Models (Sta	andard cable lenç	gth: 0.3 m)			
	Pre-wired Models	Approx. 60 g		Approx. 70 g		Approx. 130 g		Approx. 175 g				
Weight (pack- ed state)	Pre-wired Connector Models	-		Approx. 40 g		Approx. 70 g		Approx. 110 g				
	Connector Models	Approx. 15 g		Approx. 25 g		Approx. 40 g		Approx. 90 g				
	Case	Stainless steel (SUS303)	Nickel-plated bra	ass							
Materi	Sensing sur- face	РВТ										
Materi- als	Clamping nuts	Nickel-plated bra	ass									
	Toothed washer	Zinc-plated iron										
Accesso	ories	Instruction manu	ual									

^{*1.} Use the E2E within the range in which the setting indicator (green LED) is ON (except D2 Models).

The response frequency is an average value.
 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.
 For the information on UL-certified connector models, refer to your OMRON website.
 The residual voltage of each M1J-T Model is 5 V. When connecting to a device, make sure that the device can withstand the residual voltage. (Refer to page 26 for details.)

E2E-X□**Y**□ **AC 2-Wire Models**

	Size	N	18	M	l12	М	118	M30			
	Shielded	Shielded	Unshielded	Shielded	Unshielded	Shielded	Unshielded	Shielded	Unshielded		
Item	Model	E2E-X1R5Y	E2E-X2MY□	E2E-X2Y	E2E-X5MY	E2E-X5Y	E2E-X10MY	E2E-X10Y	E2E-X18MY		
Sensing dis	stance	1.5 mm ±10%	2 mm ±10%		5 mm ±10%		10 mm ±10%		18 mm ±10%		
Set distanc		0 to 1.2 mm	0 to 1.6 mm		0 to 4 mm		0 to 8 mm		0 to 14 mm		
Differential		10% max. of sei	nsing distance								
Detectable		Ferrous metal (The sensing distance decreases with non-ferrous metal. Refer to <i>Engineering Data</i> on page 18.)									
Standard se		Iron, 8×8×1 mm	Iron, 12 × 12 × 1		Iron, 15 × 15 × 1 mm	Iron,	Iron, 30 × 30 ×	,	Iron, 54 × 54 × 1 mn		
Response f	frequency	25 Hz									
Power supp (operating v range) ¹		24 to 240 VAC (20 to 264 VAC), 50/60 Hz									
Leakage cu	ırrent	1.7 mA max.									
	oad current *2	5 to 100 mA		5 to 200 mA		5 to 300 mA					
output F	Residual voltage	Refer to Engine	Refer to Engineering Data on page 19.								
Indicators		Operation indica	ator (red)								
Operation r (with sensinal) (with sensinal)	ng object	Y1 Models: NO Y2 Models: NC	Refer to the til	ming charts under	r I/O Circuit Diagra	ams on page 21 fo	or details.				
Protection	circuits	Surge suppress	urge suppressor								
Ambient ter	mperature	Operating/Stora (with no icing or		Operating/Stora	ge: -40 to 85°C (with no icing or co	ondensation)				
Ambient humidity ra	ınge	Operating/storage	ge: 35% to 95% (with no condensa	tion)						
Temperatur influence	re	±10% 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									
Voltage infl	luence	±1% max. of ser	nsing distance at	rated voltage in th	ne rated voltage ±	15% range					
Insulation r	resistance	50 MΩ min. (at	500 VDC) betwee	en current-carrying	g parts and case						
Dielectric s	trength	4,000 VAC (M8 Models: 2,000 VAC), 50/60 Hz for 1 min between current-carrying parts and case									
Vibration re	esistance	Destruction: 10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions									
Shock resis	stance	Destruction: 500 m/s ² 10 times each in X, Y, and Z directions 2 directions Destruction: 1,000 m/s ² 10 times each in X, Y, and Z directions									
Degree of p	protection	Pre-wired Models: IEC 60529 IP67, in-house standards: oil-resistant Connector Models: IEC 60529 IP67									
Connection	method	Pre-wired Mode	ls (Standard cable	e length: 2 m) and	d Connector Mode	ls					
Weight (packed	Pre- wired Models Model	Approx. 60 g		Approx. 70 g		Approx. 130 g		Approx. 175 g			
state)	Connector Models	Approx. 15 g		Approx. 25 g		Approx. 40 g		Approx. 90 g			
	Case	Stainless steel (SUS303)	Nickel-plated br	ass	1		1			
	Sensing surface	PBT		I							
Materials	Clamp- ing nuts	Nickel-plated br	ass								
	Toothed washer	Zinc-plated iron									
	Washer										

^{*1.} When supplying 24 VAC to any of the above models, make sure that the operating ambient temperature range is at least -25°C.
*2. When using an M18 or M30 Connector Model at an ambient temperature between 70 and 85°C, make sure that the Sensor has a control output (load current) of 5 to 200 mA max.

E2E-XT1 AC/DC 2-Wire Models

	Size	M12	M18	M30					
	Shielded		Shielded						
Item	Model	E2E-X3T1	E2E-X7T1	E2E-X10T1					
Sensing dista	nce	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 tra	ivel	10% max. of sensing distance							
Detectable ob	ject	Ferrous metal (The sensing distance	decreases with non-ferrous metal. F	Refer to <i>Engineering Data</i> on page 17.)					
Standard sens	sing object	Iron, 12 × 12 × 1 mm	Iron, 18 × 18 × 1 mm	Iron, 30 × 30 × 1 mm					
Response	DC	1 kHz	0.5 kHz	0.4 kHz					
frequency *1	AC	25 Hz							
Power supply (operating vol	voltage tage range) *2	24 to 240 VDC (20 to 264 VDC) 48 to 240 VAC (40 to 264 VAC)							
Leakage curre	ent	DC: 1 mA max. AC: 2 mA max.							
Control	Load current	5 to 100 mA							
output	Residual voltage	DC: 6 V max. (Load current: 100 mA, Cable length: 2 m) AC: 10 V max. (Load current: 5 mA, Cable length: 2 m)							
Indicators		Operation indicator (red), Setting ind	icator (green)						
Operation mo (with sensing approaching)		NO (Refer to the timing charts under	I/O Circuit Diagrams on page 21 for de	ails.)					
Protection circ	cuits	Load short-circuit protection (20 to 4	0 VDC only), Surge suppressor						
Ambient temp	erature range	Operating: –25 to 70°C, Storage: –40 to 85°C (with no icing or condensation)							
Ambient humi	dity range	Operating/Storage: 35% to 95% (with no condensation)							
Temperature i	nfluence	±10% max. of sensing distance at 23°C in the temperature range of –25 to 70°C							
Voltage influe	nce	\pm 1% max. of sensing distance at rated voltage in the rated voltage \pm 15% range							
Insulation res	istance	50 M Ω min. (at 500 VDC) between c	urrent-carrying parts and case						
Dielectric stre	ngth	4,000 VAC, 50/60 Hz for 1 minute be	etween current-carrying parts and ca	se					
Vibration resis	stance	Destruction: 10 to 55 Hz, 1.5-mm do	· · · · · · · · · · · · · · · · · · ·	, Y, and Z directions					
Shock resista	nce	Destruction: 1,000 m/s ² 10 times each	ch in X, Y, and Z directions						
Degree of pro	tection	IEC 60529 IP67, in-house standards	: oil-resistant						
Connection m	ethod	Pre-wired Models (Standard cable le	ngth: 2 m)						
Weight (packe	ed state)	Approx. 80 g	Approx. 140 g	Approx. 190 g					
	Case	Nickel-plated brass							
	Sensing surface	РВТ							
Materials	Clamping nuts	Nickel-plated brass							
	Toothed washer	Zinc-plated iron							
Accessories		Instruction manual							

^{*1.} 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.

*2. Power Supply Voltage Waveform:
Use a sine wave for the power supply. Using a rectangular AC power supply may result in faulty reset.

E2E-X| E | F | DC 3-Wire Models

	Size	ı	Л8	I	M12	М	18 M30		//30			
	Shielded	Shielded	Unshielded	Shielded	Unshielded	Shielded	Unshielded	Shielded	Unshielded			
Item	Model	E2E -X1R5E□/F□	E2E -X2ME□/F□	E2E -X2E□/F□	E2E -X5ME□/F□	E2E -X5E□/F□	E2E -X10ME□/F□	E2E-X10E□/ F□	E2E -X18ME□/F□			
Sensing di	istance	1.5 mm ±10%	2 mm ±10%		5 mm ±10%	ı.	10 mm ±10%	*	18 mm ±10%			
Set distan	се	0 to 1.2 mm	0 to 1.6 mm		0 to 4 mm		0 to 8 mm		0 to 14 mm			
Differentia	l travel	10% max. of se	nsing distance		-1		1					
Detectable	object	Ferrous metal (The sensing dista	nce decreases v	vith non-ferrous me	tal. Refer to <i>Engil</i>	neering Data on p	page 18.)				
Standard s object	sensing	Iron, 8 × 8 × 1 mm	Iron, 12 × 12 × 1 mm		Iron, 15×15×1 mm	Iron, 18 × 18 × 1 mm	Iron, 30 × 30 × 1 mm		Iron, 54 × 54 × 1 mm			
Response *1	frequency	2 kHz	0.8 kHz	1.5 kHz	0.4 kHz	0.6 kHz	0.2 kHz	0.4 kHz	0.1 kHz			
Power sup (operating range) *2	ply voltage voltage	12 to 24 VDC, ripple(p-p): 10% max. (10 to 30 VDC) Connector Models Used as UL-certified Models: 12 to 24 VDC, ripple (p-p): 10% max. (The operating voltage range is also the same.) *3										
Current consumption 13 mA max.												
	Load current *2	200 mA max.										
	Residual voltage	2 V max. (Load	current: 200 mA,	Cable length: 2	m)							
Indicators		Operation indica	ator (red)									
Operation (with sens approachi	ing object	E1/F1 Models: I E2/F2 Models: I Refer to the tim	VC	O Circuit Diagra	ms on page 21 for	details.						
Protection	circuits	Load short-circu	uit protection, Sur	ge suppressor, F	Reverse polarity pro	tection						
Ambient temperatu	olient operature range *2 Operating/Storage: -40 to 85°C (with no icing or condensation)											
Ambient h range	umidity	Operating/Stora	ige: 35% to 95% (with no condens	sation)							
Temperatu influence	ire				nperature range of nperature range of							
Voltage in	fluence	±1% max. of se	nsing distance at	rated voltage in	the rated voltage \pm	15% range						
Insulation	resistance	50 MΩ min. (at 500 VDC) between current-carrying parts and case										
Dielectric	strength	1,000 VAC, 50/60 Hz for 1 minute between current carry parts and case										
Vibration r	esistance	Destruction: 10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions										
Shock resi	istance	Destruction: 500 10 times each in Z directions		Destruction: 1,	000 m/s ² 10 times	each in X, Y, and	Z directions					
Degree of	protection		els : IEC 60529 IF els : IEC 60529 IF		andards: oil-resistar	nt						
Connectio	n method	Pre-wired Mode	els (Standard cabl	e length: 2 m) ar	nd Connector Mode	ls						
Weight	Pre- wired Models	Approx. 65 g		Approx. 75 g		Approx. 150 g		Approx. 195 g				
(packed state)	Connec- tor Models	Approx. 15 g		Approx. 25 g		Approx. 40 g		Approx. 90 g				
	Case	Stainless steel ((SUS303)	Nickel-plated b	orass	1		1				
	Sensing surface	РВТ	<u> </u>	·								
Materials	Clamp- ing nuts	Nickel-plated br	ass									
	Toothed washer	Zinc-plated iron										
Accessori	es	Instruction man	ual									

^{*1.} 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.
*2. When using an M8 Model at an ambient temperature between 70 and 85°C, supply 10 to 30 VDC to the Sensor and make sure that the Sensor has a control output

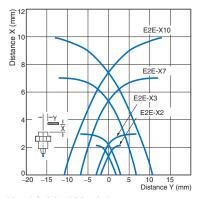
of 100 mA maximum.
*3. For the information on UL-certified connector models, refer to your OMRON website.

Engineering Data (Reference Value)

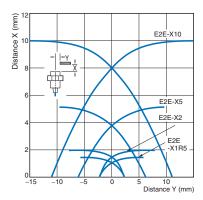
Sensing Area

Shielded Models

E2E-X D /-X T1

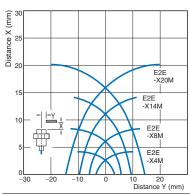


E2E-X E /-X Y /-X F

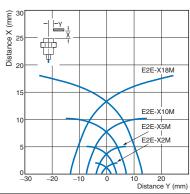


Unshielded Models

E2E-X MD

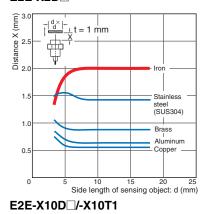




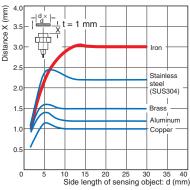


Influence of Sensing Object Size and Material

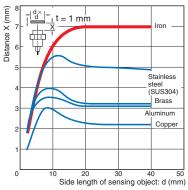
E2E-X2D

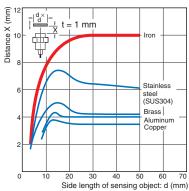


E2E-X3D\(\pi/\-X3T1\)

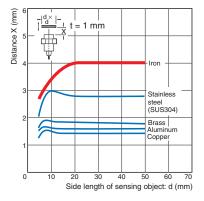


E2E-X7D\(\to\)/-X7T1

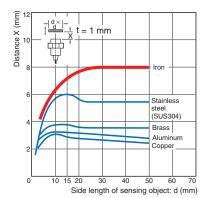




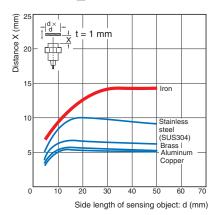
E2E-X4MD



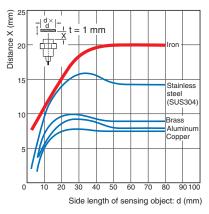
E2E-X8MD



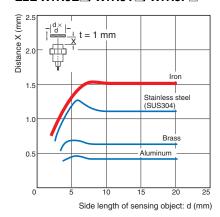
E2E-X14MD



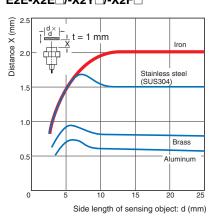
E2E-X20MD



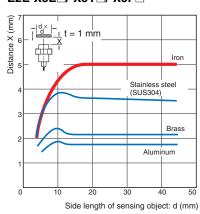
E2E-X1R5E /- **X1R5Y** /- **X1R5F**



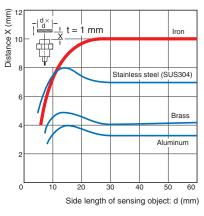
E2E-X2E /- X2Y /- X2F



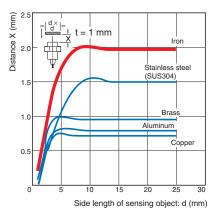
E2E-X5E /- **X5Y** /- **X5F**



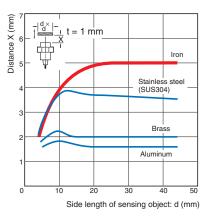
E2E-X10E /- **X10Y** /- **X10F**



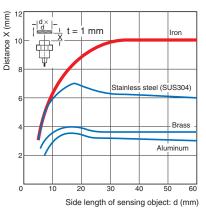
E2E-X2ME /-X2MY /-X2MF



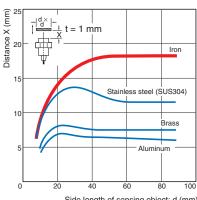
E2E-X5ME /-X5MY /-X5MF



E2E-X10ME /-X10MY /-X10MF



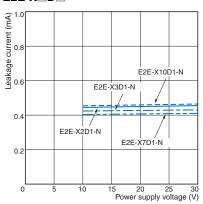
E2E-X18ME /- **X18MY** /- **X18MF**



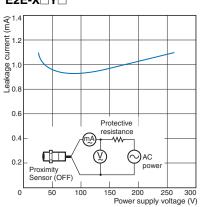
Side length of sensing object: d (mm)

Leakage Current

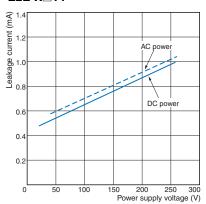




E2E-X\(\text{\tinit}}}}}} \ext{\tinit}}}}}} \ext{\tint}}}}}}} \ext{\tinit}}}}}} \ext{\tilit}}}}}}} \text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tinit}}}}}}} \ext{\texi}}}}}}}}}}}} \exitinm{\text{\text{\text{\text{\text{\text{\text{\tex{

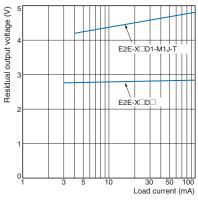


E2E-X□T1

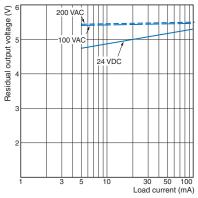


Residual Output Voltage

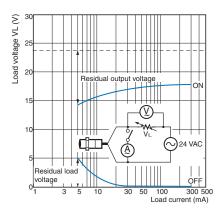
E2E-X□D□



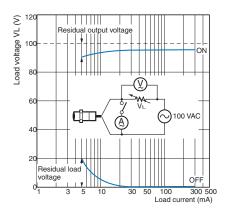
E2E-X□T1



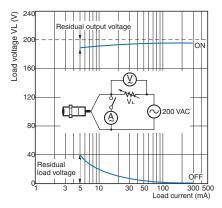
E2E-X□Y□ at 24 VAC



E2E-X□Y□ at 100 VAC



E2E-X□Y□ at 200 VAC



I/O Circuit Diagrams

E2E-X□**D**□ **DC 2-Wire Models**

Operation mode	Model	Timing Chart	Output circuit
Without self- diagnostic output: NO	E2E-X\\D1-N E2E-X\\D1-M1G(J) E2E-X\\D1(-M1TGJ)-U E2E-X\\D1-M3G E2E-X\\D1(-M1TGJ)-US	Non-sensing area Unstable Set position sensing area Sensing Object (%) 100 80 0	Polarity: Yes Proximity Brown +V Blue 0 V Note: The load can be connected to either the +V or 0 V side.
	E2E-X□D1-M1J-T	Rated sensing distance OFF (green) ON Operation indicator (red) ON OPERATION OFF Control output	Polarity: None Polarity: None O V (0 V) 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.
Without self- diagnostic output: NC	E2E-X□D2-N E2E-X□D2-M1G E2E-X□D2(-M1TGJ)-U E2E-X□D2-M3G E2E-X□D2(-M1TGJ)-US	Non-sensing area Sensing object (%) 100 0 Rated sensing distance ON Operation indicator (red) ON OFF ON OFF Control output	Proximity Brown Note: The load can be connected to either the +V or 0 V side.
With self- diagnostic output: NO	E2E-X□D1S E2E-X□D1S-M1	Vinstable Set position Sensing area Stable sensing area Stable sensing area Proximity Sensor Proximity Sensor Proximity Sensor ON OFF Setting indicator (green) OFF Coperation indicator (red) ON OFF Control output ON OFF Diagnostic output* * The diagnostic output is ON when there is a coil burnout or the sensing object is located in the unstable sensing area for 0.3 s or longer.	Prox. Imity Sensor Orange (2) (diagnostic output) Blue (3) Note: Connect both the loads to the +V side of the control output and diagnostic output.

DC 3-Wire Models

Operation mode	Output specifica- tions	Model	Timing Chart	Output circuit
NO	NPN output	E2E-X□E□ F2E-Y□E□-M1	Sensing Present object Not present Operation ON indicator (red) Control output (between brown and black leads) Otput voltage (between black and blue leads)	Proximity Sensor main circuit Black Black
NC		E2E-X□E□-M1 E2E-X□E□-M3	Sensing object Present Not present Operation indicator ON (red) Control output (between brown and black leads) Output voltage (between black and blue leads) Low	*Constant current output is 1.5 to 3 mA. Note: For Connector Models, the connection between pins 1, 4 and 3 uses an NO contact, and the connection between pins 1, 2 and 3 uses an NC contact.
NO	PNP output	E2E-X□F□ E2E-X□F□-M1 E2E-X□F□-M3	Sensing object Present Operation indicator (red) ON Control output OFF (Between blue and ON black leads) OFF Output voltage (between brown and black leads) Low	Brown Proximity Sensor main circuit Black Black Load
NC			Sensing object Present Not present Operation indicator (red) ON Control output (Between blue and black leads) OFF Output voltage (between brown and black leads) Low	*When a transistor is connected Note: For Connector Models, the connection between pins 1, 4 and 3 uses an NO contact, and the connection between pins 1, 2 and 3 uses an NC contact.

AC 2-Wire Models

Operation mode	Model	Timing Chart	Output circuit
NO	_E2E-X□Y□	Sensing Present object Not present Operation ON indicator (red) OFF Control output Reset	Brown 3 (or 1) Load Proximity Sensor main circuit
NC	E2E-X□Y□-M1	Sensing Present object Not present Operation ON indicator (red) OFF Control Operate output Reset	Note: For Connector Models, the connection between pins 3 and 4 uses an NO contact, and the connection between pins 1 and 2 uses an NC contact.

AC/DC 2-Wire Models

Operation mode	Model	Timing Chart	Output circuit		
NO	E2E-X□T1	Non-sensing area Unstable sensing area Set position Stable sensing area Proximity Sensor Proximity Sensor ON Setting indicator OFF (green) ON Operation OFF indicator (red) ON OFF Control output	Note: The load can be connected to either the +V or 0 V side. There is no need to be concerned about the polarity (brown/blue) of the Proximity Sensor.		

Sensor I/O Connectors (Sockets on One Cable End)

Model for Connectors and Pre-wired Connectors: A Connector is not provided with the Sensor. Be sure to order a Connector separately. [Refer to Dimensions for the XS2, XS3, and XS5.]

			Connector				
Applicable connector			Cable length 2m	Cable length 5m	Applicable Proximity Sensor model	Connection diagram	
code	Screw	Appearance *1	CablConnector model number	CablConnector model number	number	No. *2	
Α		Straight	XS2F-D421-DA0-F	XS2F-D421-GA0-F	EDE VID1 M1C(I)	1	
A		L-shape	XS2F-D422-DA0-F	XS2F-D422-GA0-F		ı	
В		Straight	XS2F-D421-DC0-F	XS2F-D421-GC0-F	E2E-X□E1-M1	10	
Б		L-shape	XS2F-D422-DC0-F	XS2F-D422-GC0-F	E2E-X□F1-M1	10	
		Ctroight	XS2F-D421-DD0	XS2F-D421-GD0	E2E-X□D1-M1J-T	3	
С		Straight	A32F-D421-DD0	X32F-D421-GD0	E2E-X□D1-M1	2	
C		Labora	VCOE DAGO DDO	VCOE DAGO CDO	E2E-X□F1-M1 E2E-X□D1-M1J-T E2E-X□D1-M1 E2E-X□D1-M1 E2E-X□D1-M1 E2E-X□D2-M1G(J) E2E-X□D2-M1 E2E-X□D1-M1 E2E-X□D1-M1TGJ-US) E2E-X□D2-M1TGJ-US E2E-X□D2-M1TGJ-U E2E-X□D2-M3G E2E-X□D2-M3G E2E-X□D2-M3G	3	
		L-shape	XS2F-D422-DD0	XS2F-D422-GD0	E2E-X□D1-M1	2	
					E2E-X□D2-M1G(J)	6	
					E2E-X□D2-M1J-T	8	
		Straight	XS2F-D421-D80-F	XS2F-D421-G80-F	E2E-X□D2-M1	7	
		Straight	X321 -D421-D00-1	X321 -D421-G00-1	E2E-X□D1S-M1	5	
D			E2E-X□E2-M1 E2E-X□F2-M1 E2E-X□D2-M1G(J)	11			
D	M12				E2E-X□D2-M1G(J)	6	
				XS2F-D422-G80-F	E2E-X□D2-M1J-T	8	
		L-shape	XS2F-D422-D80-F		E2E-X□D2-M1	7	
		L-Silape	X32F-D422-D00-F	X32F-D422-G00-F	E2E-X□D1S-M1	5	
						11	
F		Straight	XS2F-A421-DB0-F	XS2F-A421-GB0-F	FOE VOVA MA	1.4	
Е		L-shape	XS2F-A422-DB0-F	XS2F-A422-GB0-F	EZE-XLIYI-WII	14	
F		Straight	XS2F-A421-D90-F	XS2F-A421-G90-F	E2E-X□Y2-M1	15	
G		Smartclick Connector,	XS5F-D421-D80-F	XS5F-D421-G80-F	E2E-X□D1-M1TGJ(-US)	16	
G		Straight	X55F-D421-D80-F	X55F-D421-G80-F	E2E-X□D2-M1TGJ-US	17	
Н		Smartclick Connector, Straight	XS5F-D421-D80-P	XS5F-D421-G80-P	E2E-X□D1-M1TGJ-U	18	
		Oil-resistant Reinforced Cables			E2E-X□D2-M1TGJ-U	19	
					E2E-X□D1-M3G	4	
					E2E-X□D2-M3G	9	
		Straight	XS3F-M421-402-A	XS3F-M421-405-A	E2E-X□E1-M3 E2E-X□F1-M3	12	
1	M8				E2E-X□E2-M3 E2E-X□F2-M3	13	
1	IVIO				E2E-X□D1-M3G	4	
					E2E-X□D2-M3G	9	
		L-shape	XS3F-M422-402-A	XS3F-M422-405-A	E2E-X□E1-M3 E2E-X□F1-M3	12	
						E2E-X□E2-M3 E2E-X□F2-M3	13

Note: Refer to Introduction to Sensor I/O Connectors/Sensor Controllers for details and for information on Cable length and Robotics Cables.

*1. Images of straight and L-shaped connectors.









^{*2.} Refer to Connection Diagrams on page 23 for information on Proximity Sensor and I/O Connector connections.

Connections for Sensor I/O Connectors

Connection	Proximity Sensor		nsor	Sensor I/O Connector				
diagram No.	Туре	Operation mode	Model	model number	Connections			
1	DC 2-wire (IEC pin wiring)		E2E-X□D1-M1G/M1GJ	T: Straight 2: L-shape XS2F-D42□-□A0-F □D: 2-m cable G: 5-m cable	E2E XS2F O			
2	DC 2-wire (previous pin wiring)		E2E-X□D1-M1	1: Straight 2: L-shape XS2F-D42 - D0 D: 2-m cable G: 5-m cable	E2E XS2F ① ② ③ ③ ⑤ ⑤ ⑤ ⑤ ⑤ ⑤ ⑤ ⑤ ⑤ ⑤ ⑤ ⑤ ⑤ ⑤ ⑤ ⑤ ⑤			
3	DC 2-wire (no polarity)	NO	E2E-X□D1-M1J-T	T: Straight 2: L-shape XS2F-D42 - D0 D: 2-m cable G: 5-m cable	E2E XS2F O			
4	DC 2-wire (M8 connector)		E2E-X□D1-M3G	T: Straight 2: L-shape XS3F-M42□-40□-A 2: 2-m cable 5: 5-m cable	E2E XS3F * O Brown (+) O White (not connected) O Blue (not connected) O Black (-)			
5	DC 2-wire (diagnostic type)		E2E-X□D1S-M1	T: Straight 2: L-shape XS2F-D42D-B80-F D: 2-m cable G: 5-m cable	E2E XS2F * O Brown (not connected) O White (diagnostic output) (+) O Blue (0 V) O Black (control output) (+)			
6	DC 2-wire (IEC pin wiring)		E2E-X□D2-M1G/M1GJ	1: Straight 2: L-shape XS2F-D42 - 80-F D: 2-m cable G: 5-m cable	E2E XS2F* O Brown (+) O White (-) O Blue (not connected) O Black (not connected)			
7	DC 2-wire (previous pin wiring)	NC NC	E2E-X□D2-M1	1: Straight 2: L-shape XS2F-D42D-B80-F D: 2-m cable G: 5-m cable	E2E XS2F* O Brown (not connected) O White (+) O Blue (-) O Black (not connected)			
8	DC 2-wire (no polarity)	INC	E2E-X□D2-M1J-T	T: Straight 2: L-shape XS2F-D42 80-F D: 2-m cable G: 5-m cable	E2E XS2F* O Brown (+)(-) O White (-)(+) O Blue (not connected) O Black (not connected)			
9	DC 2-wire (M8 connector)		E2E-X□D2-M3G	1: Straight 2: L-shape XS3F-M42 -40 - A 2: 2-m cable 5: 5-m cable	E2E XS3F* O Brown (+) O White (-) O Blue (not connected) O Black (not connected)			

^{*} Different from Proximity Sensor wire colors.

Connection		Proximity Se	nsor	Sensor I/O Connector			
diagram No.	Туре	Operation mode	Model	model number	Connections		
10	DO O veites	NO	E2E-X□E/F1-M1	1: Straight 2: L-shape XS2F-D42 CO-F D: 2-m cable G: 5-m cable	E2E XS2F		
11	DC 3-wire	NC	E2E-X□E2/F2-M1	T: Straight 2: L-shape XS2F-D42 80-F D: 2-m cable G: 5-m cable	E2E XS2F O Brown (+V) O White (output) O Blue (0 V) O Black (not connected)		
12	DC 3-wire	NO	E2E-X□E1/F1-M3	1: Straight 2: L-shape XS3F-M42 -40 -A 2: 2-m cable 5: 5-m cable	E2E XS3F O Brown (+V) O White (not connected) O Blue (0 V) O Black (output)		
13	(M8 connector)	NC	E2E-X□E2/F2-M3	1: Straight 2: L-shape XS3F-M42 -40 -A 2: 2-m cable 5: 5-m cable	E2E XS3F O Brown (+V) O White (output) O Blue (0 V) O Black (not connected)		
14	AC 2-wire	NO	E2E-X□Y1-M1	1: Straight 2: L-shape XS2F-A42 B0-F D: 2-m cable G: 5-m cable	E2E XS2F O O O O O O O O O O O O O O O O O O O		
15		NC	E2E-X□Y2-M1	XS2F-A421-□90-F D: 2-m cable G: 5-m cable	E2E XS2F* O Brown O White O Blue (not connected) O Black (not connected)		
16		NO	E2E-X□D1- M1TGJ(-US)	XS5F-D421-□80-F D: 2-m cable G: 5-m cable	E2E XSSF O Brown (+) O White (not connected) O Blue (not connected) O Blue (not connected) O Blue (not connected)		
17	DC 2-wire	NC	E2E-X□D2- M1TGJ-US	XS5F-D421-□80-F D: 2-m cable G: 5-m cable	E2E XSSF O Brown (+) O White (-) O Blue (not connected) O Black (not connected)		
18	- (Smartclick connector)	NO	E2E-X□D1- M1TGJ-U	XS5F-D421-□80-P D: 2-m cable G: 5-m cable	E2E XSSF O Brown (+) O White (not connected) O Blue (not connected) O Blue (not connected) O Blue (not connected)		
19		NC	E2E-X□D2- M1TGJ-U	XS5F-D421-□80-P D: 2-m cable G: 5-m cable	E2E XSSF O Brown (+) O White (-) O Blue (not connected) O Black (not connected)		

^{*} Different from Proximity Sensor wire colors.

Refer to Introduction to Sensor I/O Connectors/Sensor Controllers for details.

Safety Precautions

Refer to Warranty and Limitations of Liability.



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



CAUTION

- Do not short the load. Explosion or burning may result
- Do not supply power to the Sensor with no load, otherwise Sensor may be damaged.

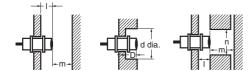
Precautions for Correct Use

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	Model			M12	M18	M30	
		ı	0				
		d	8	12	18	30	
	Shielded	D		0)		
DC 2-Wire Models		m	4.5	8	20	40	
E2E-X□D□		n	12	18	27	45	
AC/DC 2-Wire Models		I	12	15	22	30	
E2E-X□T1		d	24	40	70	90	
	Unshielded	D	12	15	22	30	
		m	8	20	40	70	
		n	24	40	70	90	
		ı	0				
		d	8	12	18	30	
	Shielded	D	0				
DC 3-Wire Models E2E-X□E□		m	4.5	8	20	40	
E2E-X□F□		n	12	18	27	45	
AC 2-Wire Models		-	6	15	22	30	
E2E-X Y		d	24	40	55	90	
	Unshielded	D	6	15	22	30	
		m	8	20	40	70	
		n	24	36	54	90	

Relationship between Sizes and Models

	Model	Model
		E2E-X2D□
M8		E2E-X1R5E□
	Shielded	E2E-X1R5F□
		E2E-X1R5Y□
		E2E-X4MD□
	Unshielded	E2E-X2ME□
	Unsnielded	E2E-X2MF□
		E2E-X2MY□
		E2E-X3D□
		E2E-X2E□
	Shielded	E2E-X2F□
		E2E-X2Y□
M12		E2E-X3T1
		E2E-X8MD□
	Unshielded	E2E-X5ME□
	Orisilielded	E2E-X5MF□
		E2E-X5MY□
		E2E-X7D□
		E2E-X5E□
	Shielded	E2E-X5F□
		E2E-X5Y□
M18		E2E-X7T1
		E2E-X14MD□
	Unshielded	E2E-X10ME□
		E2E-X10MF□
		E2E-X10MY□
		E2E-X10D□
		E2E-X10E
M30	Shielded	E2E-X10F
		E2E-X10Y
		E2E-X10T1
		E2E-X20MD
	Unshielded	E2E-X18ME
		E2E-X18MF
		E2E-X18MY□

Mutual Interference

When installing 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	М8	M12	M18	M30
DC 2-Wire Models	Object of	Α	20	30 (20)	50 (30)	100 (50)
E2E-X□D□	Shielded	В	15	20 (12) *	35 (18) *	70 (35)
AC/DC 2-Wire Models	Unshielded	Α	80	120 (60)	200 (100)	300 (100)
E2E-X□T1	Oristileided	В	60	100 (50)	110 (60)	200 (100)
DC 3-Wire Models	Shielded	Α	20	30 (20)	50 (30)	100 (50)
E2E-X□E□/X□F□	Shleided	В	15	20 (12) *	35 (18) *	70 (35)
AC 2-Wire Models	Unshielded	Α	80	120 (60)	200 (100)	300 (100)
E2E-X□Y□	Orisinelaea	В	60	100 (50)	110 (60)	200 (100)

Note: Values in parentheses apply to Sensors operating at different frequencies.

Loads with Large Surge Currents (E2E-X T)

If a load with a large surge current is connected, such as a relay, lamp, or motor, the surge current may cause the load short-circuit protection circuit to operate, resulting in operating errors.

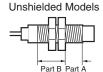
Mounting

Tightening Force

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 strengths assume washers are being used.

Model		Par	Part A			
		Dimension Torque		Torque		
M8	Shielded	9	9 N·m	12 N·m		
IVIO	Unshielded	3	9 14 111	12 IV:III		
M12			30 N·m			
M18		70 N·m				
M30		180 N·m				

Connecting a DC 2-Wire Proximity Sensor to a PLC (Programmable Controller)

Required Conditions

Connection to a PLC is possible if the specifications of the PLC and the Proximity Sensor satisfy the following conditions. (The meanings of the symbols are given at the right.)

 The ON voltage of the PLC and the residual voltage of the Proximity Sensor must satisfy the following.

 $V_{\text{ON}} \leq V_{\text{CC}} - V_{\text{R}}$

2. The OFF current of the PLC and the leakage current of the Proximity Sensor must satisfy the following.

 $\mathsf{IOFF} \geq \mathsf{I}_{\mathsf{leak}}$

(If the OFF current is not listed in the PLC's input specifications, take it to be 1.3 mA.)

 The ON current of the PLC and the control output of the Proximity Sensor must satisfy the following.

lout (min.) \leq lon \leq lout (max.)

The ON current of the PLC will vary, however, with the power supply voltage and the input impedance, as shown in the following equation.

$$Ion = (Vcc - V_R - \underline{V_{PC}}) / R_{IN}$$

Example

In this example, the above conditions are checked when the Proximity Sensor is the E2E-X7D1-N and the power supply voltage is 24 V.

- 1. Von $(14.4 \text{ V}) \le \text{Vcc} (20.4 \text{ V}) \text{Vr} (3 \text{ V}) = 17.4 \text{ V}$: OK
- 2. Ioff (1.3 mA) \geq Ileak (0.8 mA): OK
- 3. Ion = [Vcc (20.4 V) Vr (3 V) $\frac{\text{Vrc (4 V)}}{\text{Pr (3 k}\Omega)}$ / Rin (3 k Ω) = Approx. 4.5 mA

Therefore, lout (min.) (3 mA) \leq lon (4.5 mA): OK Connection is thus possible.

Connection Example (Reference)

PLC	Von: ON voltage (14.4 V) Ion: ON current (typically 7 mA) Ior: OFF current (1.3 mA) Rin: Input impedance (3 kΩ) VPc: Internal residual voltage (4 V)
Proximity Sensor	Vn: Output residual voltage (3 V) Ileak: Leakage current (0.8 mA) Iouт: Control output (3 to 100 mA) Vcc: Power supply voltage (PLC: 20.4 to 26.4 V)

^{*} Mutual interference will not occur for close-proximity mounting if models with different frequencies are used together.

Dimensions

Main Units

Model Number-Dimensions Drawing Number Lookup Table

		Model	DC 2-Wire Models		DC 3-Wire Models	S	AC 2-Wire Model	ls	AC/DC 2-Wire Mo	odels
Model	Shield	ed	Model	No.	Model	No.	Model	No.	Model	No
		M8	E2E-X2D□(-US)	1	E2E-X1R5E□/F□	1	E2E-X1R5Y□	3		
	01:-1-11	M12	E2E-X3D□(-US)	5	E2E-X2E□/F□	5	E2E-X2Y□	7	E2E-X3T1	9
	Shielded	M18	E2E-X7D□(-US)	10	E2E-X5E□/F□	10	E2E-X5Y□	10	E2E-X7T1	10
Dra wired Madala		M30	E2E-X10D□(-US)	12	E2E-X10E□/F□	12	E2E-X10Y□	12	E2E-X10T1	12
Pre-wired Models		M8	E2E-X4MD□(-US)	2	E2E-X2ME□/F□	2	E2E-X2MY□	4		
	11	M12	E2E-X8MD□(-US)	6	E2E-X5ME□/F□	6	E2E-X5MY□	8		
	Unshielded	M18	E2E-X14MD□(-US)	11	E2E-X10ME□/F□	11	E2E-X10MY□	11		
		M30	E2E-X20MD□(-US)	13	E2E-X18ME□/F□	13	E2E-X18MY□	13		
		M8	E2E-X2D□-M1(G)	14	E2E-X1R5E/F□-M1	14				
	01:-1-11	M12	E2E-X3D□-M1(G)	16	E2E-X2E/F□-M1	16	E2E-X2Y□-M1	18		
	Shielded	M18	E2E-X7D□-M1(G)	20	E2E-X5E/F□-M1	20	E2E-X5Y□-M1	20		
Connector		M30	E2E-X10D□-M1(G)	22	E2E-X10E/F□-M1	22	E2E-X10Y□-M1	22		
Models (M12)		M8	E2E-X4MD□-M1(G)	15	E2E-X2ME/F□-M1	15				
,		M12	E2E-X8MD□-M1(G)	17	E2E-X5ME/F□-M1	17	E2E-X5MY□-M1	19		
	Unshielded	M18	E2E-X14MD□-M1(G)	21	E2E-X10ME/F□-M1	21	E2E-X10MY□-M1	21		
		M30	E2E-X20MD□-M1(G)	23	E2E-X18ME/F□-M1	23	E2E-X18MY□-M1	23		
Models	Shielded		E2E-X2D□-M3G	24	E2E-X1R5E/F□-M3	24		II.		
	Unshielded	M8	E2E-X4MD□-M3G 2	25	E2E-X2ME/F□-M3	25				
<u> </u>		MO	E2E-X2D□-M1(T)GJ(-U)	26						
		M8	E2E-X2D□-M1TGJ-US							
		Mado	E2E-X3D□-M1(T)GJ(-U)	07						
	01:11	M12	E2E-X3D□-M1TGJ-US	27						
	Shielded		E2E-X7D□-M1(T)GJ(-U)							
		M18	E2E-X7D□-M1TGJ-US	28						
Pre-wired		MOO	E2E-X10D□-M1(T)GJ(-U)	00						
Connector		M30	E2E-X10D□-M1TGJ-US	29						
Models		M8	E2E-X4MD□-M1TGJ-US	30						
			E2E-X8MD1-M1(T)GJ	0.1						
		M12	E2E-X8MD□-M1TGJ-US	31						
	Unshielded		E2E-X14MD1-M1(T)GJ							
		M18	E2E-X14MD□-M1TGJ-US	32						
			E2E-X20MD1-M1(T)GJ							
		M30	E2E-X20MD□-M1TGJ-US	33						
Pre-wired		M12	E2E-X3D1-M1J-T	27						
Connector	Shielded	M18	E2E-X7D□-M1J-T	28						
Models (no polarity)	20.000	M30	E2E-X10D□-M1J-T	29	1					

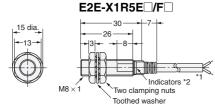
Note 1. Two clamping nuts and one toothed washer are provided with M8 to M30 Models.

2. The model numbers of M8 to M30 Pre-wired Models are laser-marked on the milled section and cable section. This does not apply, however, to models that end in -U.

Pre-wired Models (Shielded)



E2E-X2D Diagram 1



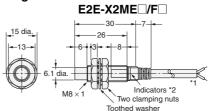
- 10.4-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.3 mm), Standard length: 2 m 4-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.3 mm), Standard length: 2 m Robotics Cable Models: 4-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.27 mm), Standard length: 2 m 4-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.27 mm), Standard length: 2 m Models with Highly Olf-resistant Cables: 4-dia. polyurethane-insulated round cable with 2 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.3 mm), Standard length: 2 m The cable can be extended up to 200 m (separate metal conduit).

 **2. D1 Models: Operation indicator (red) and setting indicator (green), D2/E/F Models: Operation indicator (red)

Pre-wired Models (Unshielded)



E2E-X4MD Diagram 2



- *1. 4-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.3 mm), Standard length: 2 m
 4-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.3 mm², Insulator diameter:
 - 1.3 mm), Standard length: 2 m Robotics Cable Models:

- Robotics Cable Models:

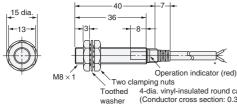
 4-dia. viryl-insulated round cable with 2 conductors (Conductor cross section: 0.3 mm², Insulator diameter:
 1.27 mm), Standard length: 2 m

 4-dia. viryl-insulated round cable with 3 conductors (Conductor cross section: 0.3 mm², Insulator diameter:
 1.27 mm), Standard length: 2 m

 The cable can be extended up to 200 m (separate metal conduit).

 *2. D1 Models: Operation indicator (red) and setting indicator (green), D2/E/F Models: Operation indicator (red)

Diagram 3 E2E-X1R5Y

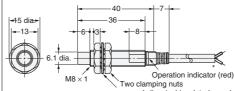


4-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.3 mm), Standard length: 2 m The cable can be extended up to 200 m (separate metal conduit).

Diagram 4 E2E-X2MY

Diagram 6

21 dia.



E2E-X8MD

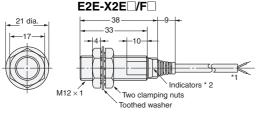
33

E2E-X5ME /F

♦4| → 10-

Two clamping nuts thed 4-dia. vinyl-insulated round cable with 2 conductors Toothed (Conductor cross section: 0.3 mm², Insulator diameter: washer 1.3 mm), Standard length: 2 m The cable can be extended up to 200 m (separate metal conduit)

Diagram 5 E2E-X3D



- *1. 4-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.3 mm), Standard length: 2 m 4-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.3 mm), Standard length: 2 m Robotics Cable Models:

4-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.3 mm². Insulator diameter:

1.27 mm), Standard length: 2 m
4-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.27 mm), Standard length: 2 m
4-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.27 mm), Standard length: 2 m

1.2/ mm), Standard length: 2 m Models with Highly Oil-resistant Cables: 4-dia, polyurethane-insulated round cable with 2 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.3 mm), Standard length: 2 m The cable can be extended (separate metal conduit) up to 200 m for the control output and up to 100 m for

the diagnostic output.

*2. D1 Models: Operation indicator (red) and setting indicator (green), D2/E/F Models: Operation indicator (red)

*1. 4-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.3 mm2, Insulator diameter:

Two clamping nuts

Toothed washer

Indicators *2

- *1.4-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.3 mm²·l Insulator diameter: 1.3 mm), Standard length: 2 m
 4-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.3 mm), Standard length: 2 m
 Robotics Cable Models:
 4-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.27 mm), Standard length: 2 m
 4-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.27 mm), Standard length: 2 m
 The cable can be extended (separate metal conduit) up to 200 m for the control output and up to 100 m for the diagnostic output.
 *2. D1 Models: Operation indicator (red) and setting indicator (green), D2/E/F Models: Operation indicator (red)

E2E-X2Y Diagram 7

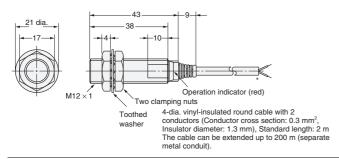
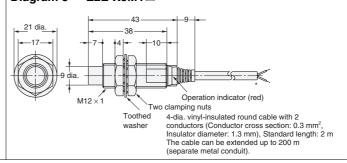


Diagram 8 E2E-X5MY

M12×1



Mounting Hole Dimensions



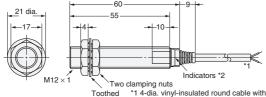
Dimension	M8	M12
F (mm)	8.5 ^{+0.5} dia.	12.5 ^{+0.5} ₀ dia.

Pre-wired Models (Shielded)

Pre-wired Models (Unshielded)



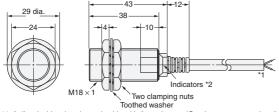
E2E-X3T1 Diagram 9



14-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.3 mm), Standard length: 2 m The cable can be extended up to 200 m (separate metal conduit)

*2 Operation indicator (red), Setting indicator (green)

Diagram 10 E2E-X7D□/E2E-X5E□/F□ E2E-X5Y\(\subseteq\)/E2E-X7T1



*1, 6-dia, vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.5 mm²,

Insulator diameter: 1.9 mm), Standard length: 2 m 6-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 2 m Robotics Cable Models:

6-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.74 mm), Standard length: 2 m 6-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.5 mm²,

Insulator diameter: 1.74 mm), Standard length: 2 m Models with Highly Oil-resistant Cables: 6-dia. polyurethane-insulated round cable with 2 conductors (Conductor cross section:

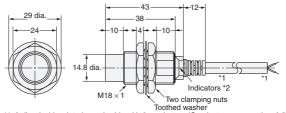
o-dia. polyprientaire-insulated round cable with z conductors (conductor cross section. 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 2 m

The cable can be extended (separate metal conduit) up to 200 m for the control output and up to 100 m for the diagnostic output.

*2. D1/T Models: Operation indicator (red), Setting indicator (green)

D2/E/F/Y Models: Operation indicator (red)

Diagram 11 E2E-X14MD□/E2E-X10ME□/F□ E2E-X10MY



*1.6-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 2 m 6-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.5 mm², 6-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.5 mm²,

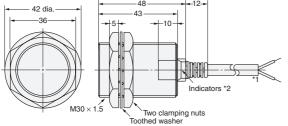
Insulator diameter: 1.9 mm), Standard length: 2 m Robotics Cable Models: 6-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.5 mm²,

Insulator diameter: 1.74 mm), Standard length: 2 m 6-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.74 mm), Standard length: 2 m The cable can be extended (separate metal conduit) up to 200 m for the control output

and up to 100 m for the diagnostic output.

*2. D1/T Models: Operation indicator (red), Setting indicator (green)
D2/E/F/Y Models: Operation indicator (red)

Diagram 12 E2E-X10D□/E2E-X10E□/F□ E2E-X10Y / E2E-X10T1



*1. 6-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 2 m 6-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 2 m

section: 0.5 mm*, insulator diameter: 1.9 mm), Standard lengtn: 2 m

Robotics Cable Models:
6-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.5 mm*, insulator diameter: 1.74 mm), Standard length: 2 m

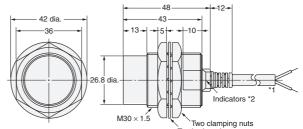
6-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.5 mm*, Insulator diameter: 1.74 mm), Standard length: 2 m

Models with Highly Oil-resistant:
6-dia-polyurathapa insulated round cable with 2 conductors (Conductor Conductors)

Models With Highly Oll-resistant:
6-dia, polyuerthane-insulated round cable with 2 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 2 m
The cable can be extended (separate metal conduit) up to 200 m for the control output and up to 100 m for the diagnostic output.

*2. D1/T Models: Operation indicator (red), Setting indicator (green)
D2/E/F/Y Models: Operation indicator (red)

Diagram 13 E2E-X20MD /E2E-X18ME /F E2E-X18MY



*1.6-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 2 m
6-dia. vinyl-insulated round cable with 3 conductors (Conductor cross

6-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 2 m Robotics Cable Models:
6-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.74 mm), Standard length: 2 m
6-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.74 mm), Standard length: 2 m
The cable can be extended (separate metal conduit) up to 200 m for the control output and up to 100 m for the diagnostic output.

*2. D1/T Models: Operation indicator (red), Setting indicator (green)
D2/E/F/Y Models: Operation indicator (red)

Mounting Hole Dimensions



Dimension	M12	M18	M30
F (mm)	12.5 ^{+0.5} dia	18.5 ^{+0.5} dia.	30.5 ^{+0.5} dia

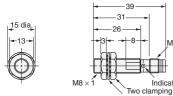
M8 Connector Models

(Shielded)

M8 Connector Models (Unshielded)



Diagram 24 E2E-X2D□-M3G/E2E-X1R5E□-M3/X1RF□-M3



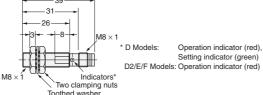
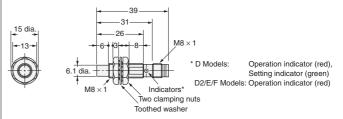


Diagram 25 E2E-X4MD□-M3G/E2E-X2ME□-M3/X2MF□-M3



M12 Connector Models (Shielded)

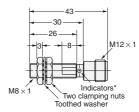


M12 Connector Models (Unshielded)



Diagram 14 E2E-X2D□-M1(G) E2E-X1R5E -M1/E2E-X1R5F -M1

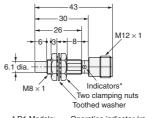




* D1 Models: Operation indicator (red). Setting indicator (green) D2/E/F Models: Operation indicator (red)

Diagram 15 E2E-X4MD□-M1(G) E2E-X2ME -M1/E2E-X2MF -M1

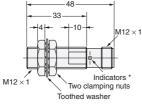




* D1 Models: Operation indicator (red), Setting indicator (green)
D2/E/F Models: Operation indicator (red)

Diagram 16 E2E-X3D□-M1(G) E2E-X2E□-M1/E2E-X2F□-M1

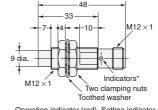




* D1 Models: Operation indicator (red) Setting indicator (green) D2/E/F Models: Operation indicator (red)

Diagram 17 E2E-X8MD□-M1(G) E2E-X5ME -M1/E2E-X5MF -M1





Operation indicator (red), Setting indicator (green) D2/E/F Models: Operation indicator (red)

Diagram 18 E2E-X2Y□-M1



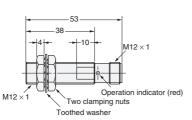


Diagram 19 E2E-X5MY□-M1

* D1 Models:

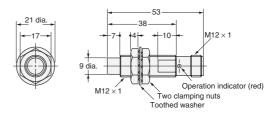


Diagram 20 E2E-X7D□-M1(G)/E2E-X5E□-M1/X5F□-M1 E2E-X5Y□-M1

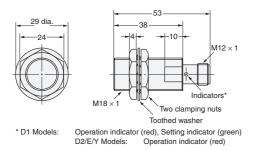
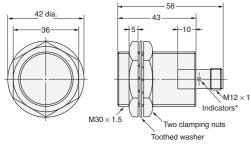


Diagram 22 E2E-X10D□-M1(G)/E2E-X10E□-M1/X10F□-M1 E2E-X10Y□-M1



* D1 Models: Operation indicator (red), Setting indicator (green) D2/E/Y Models: Operation indicator (red)

Diagram 21 E2E-X14MD□-M1(G)/E2E-X10ME□-M1 X10MF□-M1 E2E-X10MY -M1

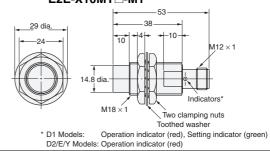
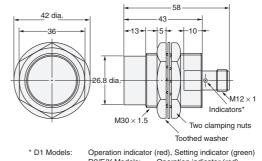


Diagram 23 **E2E-X20MD** -**M1(G)**/**E2E-X18ME** -**M1/** X18MF□-M1 E2E-X18MY□-M1



Operation indicator (red), Setting indicator (green) D2/E/Y Models: Operation indicator (red)

Mounting Hole Dimensions



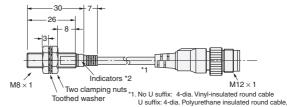
Dimensions	М8	M12	M18	M30
F (mm)	8.5 ^{+0.5} dia.	12.5 ^{+0.5} dia.	18.5 ^{+0.5} dia.	30.5 ^{+0.5} dia.

Pre-wired Connector Models (Shielded)



Diagram 26 E2E-X2D□-M1TGJ-U *3 E2E-X2D1-M1TGJ E2E-X2D -M1TGJ-US





- Standard length: 300 mm

 2. D1 Models: Operation indicator (red), Setting indicator (green)
 D2 Models: Operation indicator (red)

 *3. The connectors for M1TGJ models are XS5 Smartclick connectors.

Diagram 27 E2E-X3D□-M1GJ

E2E-X3D1-M1J-T

E2E-X3D -M1TGJ-U *3

E2E-X3D1-M1TGJ E2E-X3D□-M1TGJ-US



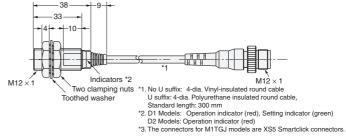


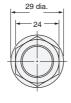
Diagram 28 E2E-X7D□-M1GJ

E2E-X7D -M1J-T

E2E-X7D -M1TGJ-U *3

E2E-X7D1-M1TGJ

E2E-X7D□-M1TGJ-US



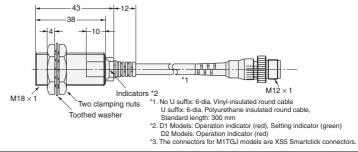


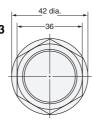
Diagram 29 E2E-X10D□-M1GJ

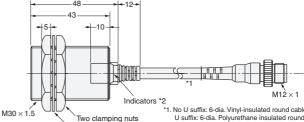
E2E-X10D□-M1J-T

E2E-X10D -M1TGJ-U *3

E2E-X10D1-M1TGJ

E2E-X10D□-M1TGJ-US





Toothed washer

- 2

 1. No U suffix: 6-dia. Vinyl-insulated round cable
 U suffix: 6-dia. Polyurethane insulated round cable,
 Standard length: 300 mm

 2. D1 Models: Operation indicator (red), Setting indicator (green)
 D2 Models: Operation indicator (red)

 3. The connectors for M1TGJ models are XSS Smartclick connectors.

Pre-wired Connector Models (Unshielded)

Diagram 30 E2E-X4MD□-M1TGJ-US



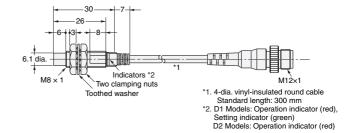


Diagram 31 E2E-X8MD1-M1GJ E2E-X8MD1-M1TGJ E2E-X8MD□-M1TGJ-US



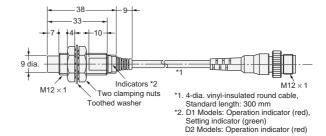
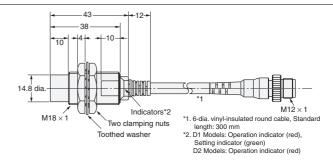
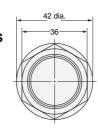
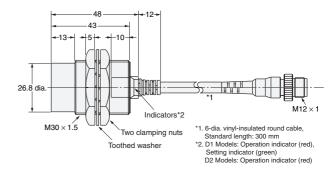


Diagram 32 E2E-X14MD□-M1GJ E2E-X14MD1-M1TGJ E2E-X14MD□-M1TGJ-US









Mounting Hole Dimensions



Dimension	M8	M12	M18	M30	
F (mm)	8.5 ^{+0.5} dia.	12.5 ^{+0.5} dia.	18.5 ^{+0.5} dia.	30.5 ^{+0.5} dia.	

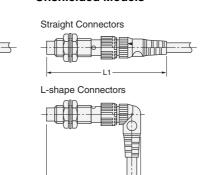
Dimensions for Proximity Sensors with Sensor I/O Connectors

Shielded Models

Straight Connectors

L-shape Connectors

Unshielded Models



Dimensions with the XS2F/XS5F Connected (Unit: mm

Dimension Sensor diameter		L1	L2
M8		Approx. 75	Approx. 62
M12*	DC	Approx. 80	Approx. 67
	AC	Approx. 85	Approx. 72
M18		Approx. 85	Approx. 72
M30		Approx. 90	Approx. 77

^{*}The overall length of the Sensor is different between AC and DC Models for Sensors with diameters of M12. This will change the dimension when the I/O Connector is connected.

Dimensions with the XS3F Connected (Unit: mm)

Dimension Sensor diameter	L1	L2
M8	Approx. 65	Approx. 54

Accessories (Order Separately)

Sensor I/O Connectors

Refer to Introduction to Sensor I/O Connectors/Sensor Controllers for details.

Mounting Brackets

Protective Covers

Sputter Protective Covers

Refer to Y92 ☐ for details.

Terms and Conditions Agreement

Read and understand this catalog.

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

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 warrantv.

See http://www.omron.com/global/ or contact your Omron representative for published 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.

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.

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 PRODUCT(S) IS PROPERLY 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.

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.

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.

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.

2020.4

In the interest of product improvement, specifications are subject to change without notice.



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Omron:

E2E-X1R5Y1-N E2E-X2D2-M1 E2EM-X15X1-2M E2EM-X16MX2-2M E2E-X1R5E1 E2EM-X4X1-2M E2E-X2Y1-US-N E2E-X1R5E1-N E2EM-X16MX1-2M E2E-X2F1-N E2E-X10MY1-US-N E2E-CR8C1 E2E-CR8B1 E2E-X1B1 E2E-X1C1 E2E-X2D1-N-N E2E-X7D1-N-N E2E-X3D1-N-N E2E-X2E1-N E2E-X4MD1 E2E-X1B2 E2E-X3D1-N E2E-X2F1-M1 E2E-X18MF1-M1 E2E2-X10C1 5M E2E2-X10MC2-M1 E2E2-X5B2-M1 E2E-CR8B1 5M E2E-CR8B2 E2E-CR8C1-2 E2E-CR8C1 5M E2E-CR8C1-R E2E-CR8C1-R 5M E2E-CR8C2 E2EM-X4C2 2M E2E-X10D15-M1J 0.3M E2E-X10D15-M1J-T 0.3M E2E-X10D1-M1 E2E-X10D1-M1G E2E-X10D1-M1GJ E2E-X10D1-M1GJ-T 0.3M E2E-X10D1-M1GJ-T1 0.5M E2E-X10D1-M1GJ-T 1M E2E-X10D1-M1G-T1 E2E-X10D1-M1J 0.3M E2E-X10D1-M1J-T 0.3M E2E-X10D1-M1J-T1 0.3M E2E-X10D1-M1J-T 1M E2E-X10D1-M1J-T1N 0.3M E2E-X10D1-N E2E-X10D1-N1 E2EX10D1-N-10M E2E-X10D1-N3 E2E-X10D1-R 5M E2E-X10D1S E2E-X10D1S-M1 E2E-X10D2-M1 E2E-X10D2-M1G E2E-X10D2-M1G-T1 E2E-X10D2-M1G-T3 E2E-X10D2-M1J-T4N 0.3M E2E-X10D2-N E2E-X10E1 E2E-X10E1 5M E2E-X10E1-9 2M E2E-X10E1-M1 E2E-X10E2 E2E-X10E2-M1 E2E-X10E2-N 5M E2E-X10F1 E2E-X10F1 10M E2E-X10F1-M1 E2E-X10F2 E2E-X10F2-M1 E2E-X10ME15 2M E2E-X10ME1-M1 E2E-X10ME2 E2E-X10ME2-M1 E2E-X10MF1 E2E-X10MF1-M1 E2E-X10MF2 E2E-X10MF2-M1 E2E-X10MY1 E2E-X10MY1-53-US E2E-X10MY1-M1 E2E-X10MY1-M4 E2E-X10MY1-US E2E-X10MY2-53-US E2E-X10MY2-M1 E2E-X10MY2-M4 E2E-X10MY2-US E2E-X10T1 E2E-X10Y1-5 E2E-X10Y15 10M E2E-X10Y1-53-US E2E-X10Y1-53US 5M E2E-X10Y1-5-5M-N E2E-X10Y1-M1 E2E-X10Y1-M4 E2E-X10Y1-US