CSM_E2E_DS_E_9_2

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.

Features

page 25

2-Wire Models

Be sure to read Safety Precautions on

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

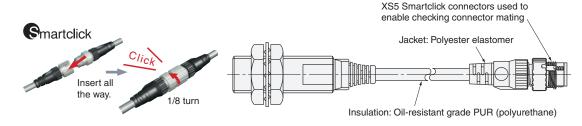


Cable Flexibility: approximately twice that of cinyl chloride cables



More Flexibility at -40°C

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



OMRON

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

Lineup includes models with small diameter (3 dia., 4 dia., 5.4 dia., M5)

- All small-diameter models use sealed construction. Operation is stable even when the Sensor is mounted in a small space or embedded in metal.
- Bright indicators enable easily checking the installation condition.



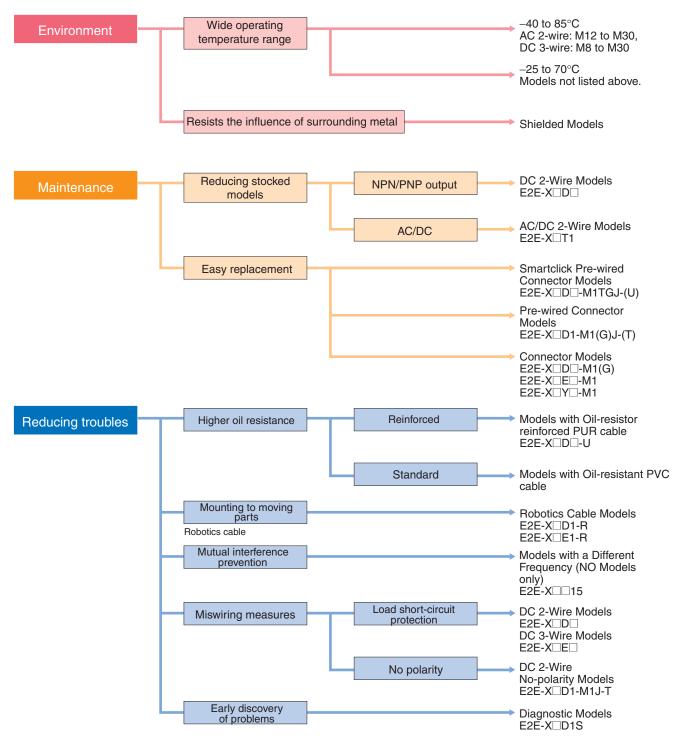
Wide range of ambient operating temperatures: -40°C to 85°C (M8 to M30 models)

- Wide range of ambient operating temperatures also for small-diameter models: -25°C to 70°C
- Suitable for low-temperature and high-temperature applications, which are troublesome for photoelectric sensors.

Lineup includes models with flexible cable (4-dia. 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
------	-----	-----	------------	-----	-------	--------	---------	----

No.	Classification	Code	Meaning	Remarks
(1)	Appearance	С	Cylindrical (not threaded)	
U	Appearance	Х	Cylindrical (threaded)	
		Number	Sensing distance (Unit: mm)	Example:
2	Sensing distance	R	Indication of decimal point	R6: 0.6 mm 1R5: 1.5 mm
3	Shielding	Blank	Shielded Models	
	Cincianig	М	Unshielded Models	
		В	DC 3-wire PNP open-collector output	
		С	DC 3-wire NPN open-collector output	
	Power supply and output	D	DC 2-wire polarity/no polarity	Whether D models have
4	specifications	E	DC 3-wire NPN collector load built-in output	polarity is defined by num-
	Specimeans.ie	F	DC 3-wire PNP collector load built-in output	ber ⑩.
		Т	AC/DC 2-wire	
		Y	AC 2-wire	
(2)	Form of output switching el-	1	Normally open (NO)	
⑤	ement	2	Normally closed (NC)	
	Ossillation francisco and to the	Blank	Standard frequency	Used to prevent mutual in-
6	Oscillation frequency type	5	Different frequency	terference.
	O a Maritia ava a a la	Blank	No	
7	Self-diagnosis	5	Yes	-
		Blank	Pre-wired	
8	Connection method	M1	M12-size metal connector	
		М3	M8-size metal connector	
		Blank	Connector Models DC 3-wire and AC 2-wire, DC 2-wire with self-diagnosis output, DC 2-wire with old pin arrangement	
		G	Connector Models DC 2-wire with IEC pin arrangement	
9	Connector specifications	J	Pre-wired Connector Models DC 3-wire and AC 2-wire, DC 2-wire with old pin arrangement	
		GJ	Pre-wired Connector Models DC 2-wire with IEC pin arrangement	
		TJ	Pre-wired Smartclick Connector Models DC 2-wire	
		TGJ	Pre-wired Smartclick Connector Models DC 2-wire with IEC pin arrangement	
-	DC 2 wire pelevity	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.
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	e 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 0.3N
		click Connector Mod-	oil-resistant)		NC	1: +V, 2: 0 V	П	E2E-X2D2-M1TGJ-U 0.3N
		els (0.3m)	PVC (oil-resistant)	1	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)	PVC (oil-resistant)	Yes	NO			E2E-X2D1-N 2M
			PVC (oii-resistant)		NC			E2E-X2D2-N 2M
		M12 Connector Mod-		Ī	NO	1: +V, 4: 0 V	Α	E2E-X2D1-M1G
		els			NC	1: +V, 2: 0 V	D	E2E-X2D2-M1G
		M8 Connector Models		Ī	NO	1: +V, 4: 0 V	_	E2E-X2D1-M3G
		Wio Connector Models			NC	1: +V, 2: 0 V	. I	E2E-X2D2-M3G
		M12 Pre-wired Smart-	PUR (increased		NO	1: +V, 4: 0 V	П	E2E-X3D1-M1TGJ-U 0.3I
		click Connector Mod-	oil-resistant)		NC	1: +V, 2: 0 V	Н	E2E-X3D2-M1TGJ-U 0.3
		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) (O (=il ====i=t===t)		NO			E2E-X3D1-N 2M *1
M12	3 mm		PVC (oil-resistant)		NC			E2E-X3D2-N 2M
		M12 Connector Mod-		Ī	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-	D) (O ('')	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	
		M10 Pro wired Smort	PUR (increased		NO	1: +V, 4: 0 V		E2E-X7D1-M1TGJ-U 0.3N
		M12 Pre-wired Smart- click Connector Mod-	oil-resistant)		NC	1: +V, 2: 0 V	Н	E2E-X7D2-M1TGJ-U 0.3M
		els (0.3m)	PVC (oil-resistant)	Yes	NO	1: +V, 4: 0 V	G	E2E-X7D1-M1TGJ 0.3M
			PUR (increased		NO			E2E-X7D1-U 2M
		Pre-wired Models	oil-resistant)		NC			E2E-X7D2-U 2M
		(2 m)			NO			E2E-X7D1-N 2M *1
M18	7 mm		PVC (oil-resistant)		NC			E2E-X7D2-N 2M
		M12 Connector Mod-		†	NO	1: +V, 4: 0 V	Α	E2E-X7D1-M1G *1
		els			NC	1: +V, 2: 0 V	D	E2E-X7D2-M1G
					NO	1: +V, 4: 0 V	Α	E2E-X7D1-M1GJ 0.3M
		M12 Standard Pre-		Yes	NC	1: +V, 2: 0 V	D	E2E-X7D2-M1GJ 0.3M
		wired Connector Mod- els (0.3 m)	PVC (oil-resistant)		NO	(3, 4): (+V, 0 V)	С	E2E-X7D1-M1J-T 0.3M
		olo (olo III)		No *3	NC	(1, 2): (+V, 0 V)	D	E2E-X7D2-M1J-T 0.3M
		M40 B : 10 1	PUR (increased		NO	1: +V, 4: 0 V		E2E-X10D1-M1TGJ-U 0.3
		M12 Pre-wired Smart- click Connector Mod-	oil-resistant)		NC	1: +V, 2: 0 V	Н	E2E-X10D2-M1TGJ-U 0.3
		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	†		E2E-X10D2-U 2M
M30		(2 m)	·	. 00	NO			E2E-X10D1-N 2M *1
	10 mm		PVC (oil-resistant)		NC	+		E2E-X10D2-N 2M
	10 111111	M12 Connector Mod-		1	NO	1: +V, 4: 0 V	Α	E2E-X10D1-M1G *1
		M12 Connector Mod- els			NC	1: +V, 4: 0 V	D	E2E-X10D1-M1G
					NO	1: +V, 4: 0 V	A	E2E-X10D1-M1GJ 0.3M
		M12 Standard Pre-		Yes	NC	1: +V, 4: 0 V	D	E2E-X10D1-M1GJ 0.3M
		wired Connector Mod-	PVC (oil-resistant)		NO	(3, 4): (+V, 0 V)	С	E2E-X10D2-M1GJ 0.3M
	i I I	els (0.3 m)	lod- PVC (oil-resistant)		INO	(∪, ¬). (+ v , ∪ v)	U	L_LVIODI-MIID-I 0.9M

OMRON

^{*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

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



Appear- ance	Sensing d	istance	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
			Pre-wired Models (2 III)	PVC (oii-resistant)		NC			E2E-X4MD2 2M
M8	4 2222		M12 Connector Models			NO	1: +V, 4: 0 V	Α	E2E-X4MD1-M1G
IVIO	4 mm		W12 Connector Models			NC	1: +V, 2: 0 V	D	E2E-X4MD2-M1G
			M8 Connector Models			NO	1: +V, 4: 0 V	1	E2E-X4MD1-M3G
			Wo Connector Wodels			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	0 200		Fie-wired Models (2 III)	FVC (oii-resistant)		NC			E2E-X8MD2 2M
IVI I Z	8 mm		M12 Connector Models			NO	1: +V, 4: 0 V	Α	E2E-X8MD1-M1G *1
			W12 Connector Models			NC	1: +V, 2: 0 V	D	E2E-X8MD2-M1G
			M12 Standard Pre-	DVO (sil masistant)		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
			Dre wired Madela (0 m)	PVC (oil-resistant)		NO			E2E-X14MD1 2M *1
M18	4.4		Pre-wired Models (2 m)	PVC (oii-resistant)		NC			E2E-X14MD2 2M
IVI I 8	14	mm	M12 Connector Models			NO	1: +V, 4: 0 V	Α	E2E-X14MD1-M1G *1
			W12 Connector Models			NC	1: +V, 2: 0 V	D	E2E-X14MD2-M1G
			M12 Standard Pre-	DVC (-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
			Dre wired Medale (0 :)	DVC (sil regist==+\		NO			E2E-X20MD1 2M *1
M30		20 mm	Pre-wired Models (2 m)	PVC (oil-resistant)		NC			E2E-X20MD2 2M
IVIOU		20 111111	M12 Connector Models			NO	1: +V, 4: 0 V	Α	E2E-X20MD1-M1G *1
			WITZ CONTIECTOR WIOGEIS			NC	1: +V, 2: 0 V	D	E2E-X20MD2-M1G
			M12 Standard Pre-	DVC (sil regist==+\		NO	1: +V, 4: 0 V	Α	E2E-X20MD1-M1GJ 0.3M
			wired Connector Mod- els (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 □D15 (example: E2E-X8MD15 2M). *2. Refer to page 22 for details.

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



Appear- ance	Sei	nsing 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 mn	n 	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)					E2E-X7D1S 2M *1
M18	7	mm	M12 Connector Models		Yes	NO	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 \(\subseteq D15S\) (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-X8MD1S-M1
		Pre-wired Mod- els (2 m)	PVC (oil-resistant)					E2E-X14MD1S 2M *1
M18	14 mm	M12 Connector Models		Yes	NO	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)					E2E-X20MD1S 2M *1
M30	20 mr	M12 Connector Models				2: +V and diagnostic output 3: 0 V 4: +V and control output	D	E2E-X20MD1S-M1

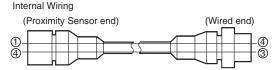
^{*1.} Models with different frequencies are also available. The model number is E2E-X

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 XW3A-P□45-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.

A mmaay		Model									
Appeara	ance	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	Sensing distance		tance	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 mm			(2 m)	F VC (OII-Tesistant)	NC			E2E-X1R5Y2 2M				
				Pre-wired Models	PVC (oil-resistant)	NO			E2E-X2Y1 2M *1				
M12		m		(2 m)	PVC (oii-resistant)	NC			E2E-X2Y2 2M				
IVI I Z	2 mm			M12 Connector		NO	(3, 4): (AC, AC)	Е	E2E-X2Y1-M1				
				Models		NC	(1, 2): (AC, AC)	F	E2E-X2Y2-M1				
				Pre-wired Models	PVC (oil-resistant)	NO			E2E-X5Y1 2M *1				
M18			n	ı	_	m		(2 m)	1 VO (on resistant)	NC			E2E-X5Y2 2M
IVI I O	5 m	irm			M12 Connector		NO	(3, 4): (AC, AC)	Е	E2E-X5Y1-M1			
				Models		NC	(1, 2): (AC, AC)	F	E2E-X5Y2-M1				
				Pre-wired Models	PVC (oil-resistant)	NO			E2E-X10Y1 2M *1				
Man	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 □Y□5 (example: E2E-X5Y15 2M). *2. Refer to page 22 for details.

Unshielded Models



Appear- ance	Sensing distance		stance	Connection method	Cable specifications	Operation mode	Pin arrangement	Applicable con- nector code *2	Model												
M8				Pre-wired Models	PVC (oil-resistant)	NO			E2E-X2MY1 2M												
IVIO	2 mm	1 ∣		(2 m)	F VC (OII-Tesistatit)	NC			E2E-X2MY2 2M												
				Pre-wired Models	PVC (oil-resistant)	NO			E2E-X5MY1 2M *1												
M12				(2 m)	FVC (OII-Tesistatit)	NC			E2E-X5MY2 2M												
IVI I Z	5 m			M12 Connector		NO	(3, 4): (AC, AC)	Е	E2E-X5MY1 2M												
				Models		NC	(1, 2): (AC, AC)	F	E2E-X5MY2-M1												
				Pre-wired Models	PVC (oil-resistant)	NO			E2E-X10MY1 2M *1												
M18		10 mm	(2 m)	FVC (OII-Tesistatit)	NC			E2E-X10MY2 2M													
IVI I O			10 mm	10 mm	10 mm	10 mm	10 mm	10 mm	10 mm	10 mm	10 mm	10 mm	10 mm	10 mm	10 mm		M12 Connector		NO	(3, 4): (AC, AC)	Е
				Models		NC	(1, 2): (AC, AC)	F	E2E-X10MY2-M1												
				Pre-wired Models	DVC (ail registent)	NO			E2E-X18MY1 2M *1												
Maa			10	(2 m)	PVC (oil-resistant)	NC			E2E-X18MY2 2M												
M30	30		18 mm	M12 Connector		NO	(3, 4): (AC, AC)	Е	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 \(\text{DMY}\)\(\text{D}\)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

Note: Not compliant with CE.



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



			Oakla	0		Appli-	ı	Model
Appear- ance	Sensing distance	Connection method	Cable specifica- tions	Opera- tion mode	Pin arrangement	cable connec- tor code *2	NPN output	PNP output
3 dia.	0.0	Pre-wired Models	PVC (oil-re-	NO			E2E-CR6C1 2M	E2E-CR6B1 2M
o ula.	0.6 mm	(2 m)	sistant)	NC			E2E-CR6C2 2M	E2E-CR6B2 2M
4 dia.	0.8 mm	Pre-wired Models	PVC (oil-re-	NO			E2E-CR8C1 2M	E2E-CR8B1 2M
4 ula.	0.6 11111	(2 m)	sistant)	NC			E2E-CR8C2 2M	E2E-CR8B2 2M
M5	1 mm	Pre-wired Models	PVC (oil-re-	NO			E2E-X1C1 2M	E2E-X1B1 2M
IVIO	1 111111	(2 m)	sistant)	NC			E2E-X1C2 2M	E2E-X1B2 2M
5.4 dia.	1 mm	Pre-wired Models	PVC (oil-re-	NO			E2E-C1C1 2M	E2E-C1B1 2M
7.4 ula.	1 111111	(2 m)	sistant)	NC			E2E-C1C2 2M	E2E-C1B2 2M
		Pre-wired Models	PVC (oil-re- sistant)	NO			E2E-X1R5E1 2M	E2E-X1R5F1 2M
		(2 m)	PVC (oil-re- sistant)	NC			E2E-X1R5E2 2M	E2E-X1R5F2 2M
M8	4.5	M12 Connector		NO	1: +V, 3: 0 V, 4: Control output	В	E2E-X1R5E1-M1	E2E-X1R5F1-M1
IVIO	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	M12 Connector		NO	1: +V, 3: 0 V, 4: Control output	В	E2E-X2E1-M1	E2E-X2F1-M1
		Models		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	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.]



					_		Appli-	Мо	del
Appear- ance	Sensing dis	tance	Connection method	Cable specifications	Opera- tion mode	Pin arrangement	cable connec- tor code *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	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	ı	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		NO			E2E-X5ME1 2M *1	E2E-X5MF1 2M
			(2 m)	tant)	NC			E2E-X5ME2 2M	E2E-X5MF2 2M
M12	5 mm	M12	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-X D DC 2-Wire Models

Size		N	Л8	M12			M18		M30		
	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	ance *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		
Differen	tial travel	15% max. of sensing distance 10% max. of sensing distance									
Detectal	ble object	Ferrous metal (The sensing distance decreases with non-ferrous metal. Refer to Engineering Data on pages 16 and 17.									
Standar object	d sensing	Iron, 8 × 8 × 1 mm	Iron, $20 \times 20 \times 1 \text{ mm}$	Iron, 12 × 12 × 1 mm	Iron, $30 \times 30 \times 1 \text{ mm}$	Iron, 18 × 18 × 1 mm	Iron, 30 × 30 ×	1 mm	Iron, 54 × 54 × 1 mr		
Respons	se frequency	1.5 kHz	1 kHz		0.8 kHz	0.5 kHz	0.4 kHz		0.1 kHz		
	upply voltage ng voltage	12 to 24 VDC (1	0 to 30 VDC), rip	ple (p-p): 10% ma	ax.						
Leakage	current	0.8 mA max.									
0	Load current	3 to 100 mA, Di	agnostic output: 5	60 mA for -D1(5)S	Models						
Control output	Residual voltage *3	3 V max. (Load	current: 100 mA,	Cable length: 2 m	n, M1J-T Models o	nly: 5 V max.)					
Indicato	rs		eration indicator (r eration indicator (r		dicator (green)						
	on mode nsing object hing)	D1 Models: NO D2 Models: NC	Refer to the ti	iming charts unde	er I/O Circuit Diagr	ams on page 19	for details.				
Diagnostic output delay 0.3 to 1 s											
Protecti	Protection circuits Surge suppressor, Load short-circuit protection (for control and diagnostic output)										
Ambient tempera	t Iture range	Operating: -25	to 70°C, Storage:	-40 to 85°C (with	no icing or conde	ensation)					
Ambient humidity		Operating/stora	ge: 35% to 95% (with no condensa	tion)						
Tempera influenc			ensing distance mperature range	±10% max. of se	ensing distance a	t 23°C in the temp	perature range of	–25 to 70°C			
Voltage	influence	±1% max. of se	1% max. of sensing distance at rated voltage in the rated voltage ±15% range								
Insulatio	on resistance	50 MΩ min. (at 500 VDC) between current-carrying parts and case									
Dielectri	ic strength	1000 VAC, 50/60 Hz for 1 minute between current carry parts and case									
Vibratio	n resistance	Destruction: 10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions									
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 (of protection		els: IEC 60529 IP6 els: IEC 60529 IP		lards: oil-resistant						
Connect	tion method	Pre-wired Mode	ls (Standard cable	e length: 2 m), Co	nnector Models, o	or Pre-wired Conr	nector Models (St	andard cable leng	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 br	ass						
Materi-	Sensing sur- face	РВТ									
als	Clamping nuts	Nickel-plated br	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).

*2. 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.

*3. 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

E2E-X Y AC 2-Wire Models

		M8			VI12	M18		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%	1	5 mm ±10%	10 mm ±10%			18 mm ±10%	
Set distance	е	0 to 1.2 mm	0 to 1.6 mm		0 to 4 mm		0 to 8 mm		0 to 14 mm	
Differential	travel	10% max. of ser	nsing distance		+		+		+	
Detectable	object	Ferrous metal (The sensing dista	nce decreases w	vith non-ferrous me	tal. Refer to <i>Engi</i>	<i>ineering Data</i> on p	page 17.)		
Standard se	ensing	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 frequency 25 Hz							1			
Power supp (operating v range)*1		24 to 240 VAC ((20 to 264 VAC),	50/60 Hz						
Leakage cu	rrent	1.7 mA max.	I.7 mA max.							
	oad current *2	5 to 100 mA		5 to 200 mA		5 to 300 mA				
	Residual oltage	Refer to Engineering Data on page 18.								
Indicators		Operation indica	ator (red)							
Operation n (with sensir approachin	ng object	Y1 Models: NO Y2 Models: NC	Refer to the ti	ming charts unde	er I/O Circuit Diagn	ams on page 21 f	or details.			
Protection of	circuits	Surge suppress	or							
Ambient ter range *1*2	mperature	erature Operating/Storage: -25 to 70°C (with no icing or condensation) Operating/Storage: -40 to 85°C (with no icing or condensation)								
Ambient humidity ra	nge	Operating/storage	ge: 35% to 95% (with no condensa	ation)					
Temperatur influence	'e	$\pm 10\%$ max. of so at 23°C in the te of –25 to 70°C	ensing distance mperature range		sensing distance a sensing distance a					
Voltage infl	uence	±1% max. of sensing distance at rated voltage in the rated voltage ±15% range								
Insulation r	esistance	50 M Ω min. (at	500 VDC) betwee	n current-carryin	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 10 times each in Z directions		Destruction: 1,	000 m/s ² 10 times	each in X, Y, and	Z directions			
Degree of p	rotection	Pre-wired Models: IEC 60529 IP67, in-house standards: oil-resistant Connector Models: IEC 60529 IP67								
Connection	method	Pre-wired Mode	ls (Standard cabl	e length: 2 m) an	d Connector Mode	els				
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 b	rass			<u>-1</u>		
	Sensing surface	PBT		1						
Materials	Clamp- ing nuts	Nickel-plated br	ass							
	Toothed washer	Zinc-plated iron								
Accessorie	s	Instruction manu	ual							

^{*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-X T1 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	avel	10% max. of sensing distance						
Detectable ob	ject	Ferrous metal (The sensing distance	decreases with non-ferrous metal. R	efer to Engineering Data on page 16.				
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	1					
Power supply (operating vol	voltage Itage 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	licator (green)					
Operation mode (with sensing object approaching)		NO (Refer to the timing charts under	' I/O Circuit Diagrams on page 21 for deta	ails.)				
Protection cir	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 hum	idity range	Operating/Storage: 35% to 95% (with no condensation)						
Temperature i	influence	±10% max. of sensing distance at 23°C in the temperature range of –25 to 70°C						
Voltage influe	ence	$\pm 1\%$ max. of sensing distance at rated voltage in the rated voltage $\pm 15\%$ range						
Insulation res	istance	50 MΩ min. (at 500 VDC) between current-carrying parts and case						
Dielectric stre	ength	4,000 VAC, 50/60 Hz for 1 minute be	etween current-carrying parts and cas	se				
Vibration resi	stance	Destruction: 10 to 55 Hz, 1.5-mm do	uble amplitude for 2 hours each in X,	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	nethod	Pre-wired Models (Standard cable le	ength: 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		M8		I	M12	IVI	18	M30			
	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 dis	tance	1.5 mm ±10%	9% 2 mm ±10%		5 mm ±10%	5 mm ±10%			18 mm ±10%		
Set distance	е	0 to 1.2 mm									
Differential	travel	10% max. of ser	nsing distance		<u>.</u>						
Detectable (object	Ferrous metal (The sensing distance decreases with non-ferrous metal. Refer to Engineering Data on pages 16 and 17.)									
Standard se object	ensing	Iron, $8 \times 8 \times 1 \text{ mm}$	Iron, 12 × 12 ×	l mm	Iron, 15 ×15 × 1 mm	Iron, 18 × 18 × 1 mm	Iron, 30 × 30 ×	1 mm	Iron, 54 × 54 × 1 mr		
Response f	requency	2 kHz	0.8 kHz	1.5 kHz	0.4 kHz	0.6 kHz	0.2 kHz	0.4 kHz	0.1 kHz		
Power supp (operating v range)*2		12 to 24 VDC (1	0 to 40 VDC), rip	ple (p-p): 10% m	ax.						
Current con	sumption	13 mA max.									
Control C	oad urrent *2	200 mA max.	00 mA max.								
	lesidual oltage	2 V max. (Load	current: 200 mA,	Cable length: 2 r	m)						
Indicators		Operation indica	ator (red)								
	ration mode sensing object oaching) E1/F1 Models: NO E2/F2 Models: NC Refer to the timing charts under /O Circuit Diagrams on page 20 for details.										
Protection of	circuits Load short-circuit protection, Surge suppressor, Reverse polarity protection										
Ambient temperature	e range *2	ange *2 Operating/Storage: –40 to 85°C (with no icing or condensation)									
Ambient hu range	midity	Operating/Stora	ge: 35% to 95% (with no condens	ation)						
Temperatur influence	e	±15% max. of se ±10% max. of se	ensing distance a ensing distance a	t 23°C in the tem t 23°C in the tem	nperature range of nperature range of	–40 to 85°C –25 to 70°C					
Voltage infl	uence	±1% max. of ser	nsing distance at	rated voltage in t	the rated voltage ±	15% range					
Insulation re	esistance	50 M Ω min. (at 500 VDC) between current-carrying parts and case									
Dielectric st	trength	1,000 VAC, 50/60 Hz for 1 minute between current carry parts and case									
Vibration re	sistance	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 10 times each in Z directions		Destruction: 1,0	000 m/s ² 10 times	each in X, Y, and	Z directions				
Degree of p	rotection		ls : IEC 60529 IF els : IEC 60529 IF		ndards: oil-resistar	nt					
Connection	method	Pre-wired Mode	ls (Standard cabl	e length: 2 m) an	nd Connector Mode	ls					
Weight	Pre- wired Models	Approx. 65 g		Approx. 75 g		Approx. 150 g		Approx. 195 g			
(packed state)	Connector Models	Approx. 15 g		Approx. 25 g		Approx. 40 g		Approx. 90 g			
	Case	Stainless steel (SUS303)	Nickel-plated b	rass	1		1			
	Sensing surface	PBT	•	<u> </u>							
Materials	Clamp- ing nuts	Nickel-plated br	ass								
Toothed washer Zinc-plated iron											
	Washer	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. 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.

E2E-C□C/B□ and E2E-X1C/B□ DC 3-Wire Models

	Size	3 dia.	4 dia.	M5	5.4 dia.				
	Shielded		5	hielded	 				
Item	Model	E2E-CR6C/B□	E2E-CR8C/B□	E2E-X1C/B□	E2E-C1C/B□				
Sensing d	listance	0.6 mm ±15%	0.8 mm ±15%	1 mm ±15%					
Set distan	ice	0 to 0.4 mm	0 to 0.5 mm 0 to 0.7 mm						
Differentia	al travel	15% max. of sensing distance							
Detectable	e object	Ferrous metal (The sensing dista	nce decreases with non-ferrous	metal. Refer to Engineering Data on p	ages 17 and 18.)				
Standard ject	sensing ob-	Iron, $3 \times 3 \times 1$ mm Iron, $5 \times 5 \times 1$ mm							
Response	frequency *	2 kHz	3 kHz						
Power sup (operating range)	pply voltage g voltage	12 to 24 VDC (10 to 30 VDC), rip	ole (p-p): 10% max.						
Current co	onsumption	10 mA max.	17 mA max.						
Control output Residual voltage		Open-collector output, 80 mA max. (30 VDC max.)	Open-collector output, 100 mA	max. (30 VDC max.)					
		1 V max. (Load current: 80 mA, Cable length: 2 m) 2 V max. (Load current: 100 mA, Cable length: 2 m)							
Indicators	3	Operation indicator (red)							
Operation (with sens	sing object	C1/B1 Models: NO C2 Models: NC							
Protection	n circuits	Reverse polarity protection, Surge	e suppressor						
Ambient temperatu	ire range	Operating/Storage: -25 to 70°C (with no icing or condensation)						
Ambient h	numidity	Operating/Storage: 35% to 95% (with no condensation)							
Temperati ence	ure influ-	$\pm 15\%$ max. of sensing distance at 23°C in the temperature range of –25 to 70°C							
Voltage in	fluence	±5% max. of sensing distance at rated voltage in the rated voltage in the rated voltage in the rated voltage ±2.5% max. of sensing distance at rated voltage in the rated voltage ±15% range							
Insulation	resistance	50 M Ω min. (at 500 VDC) betwee	n current-carrying parts and cas	e					
Dielectric	strength	500 VAC, 50/60 Hz for 1 min betw	veen current-carrying parts and	case					
Vibration	resistance	Destruction: 10 to 55 Hz, 1.5-mm	double amplitude for 2 hours ea	ach in X, Y, and Z directions					
Shock res	sistance	Destruction: 500 m/s ² 10 times ea	ach in X, Y, and Z directions						
Degree of	protection	IEC 60529 IP66	IEC 60529 IP67, in-house star	ndards: oil-resistant					
Connection	on method	Pre-wired Models (Standard cable	e length: 2 m)						
Weight (pa	acked state)	Approx. 60 g							
	Case	Stainless steel (SUS303)		Nickel-plated brass					
	Sensing surface	Heat-resistant ABS							
Materials	Clamping nuts	Nickel-plated brass (E2E-X1C/B	only)						
	Toothed washer	Zinc-plated iron (E2E-X1C/B□ on	ly)						
Accessori	ies	Instruction manual							

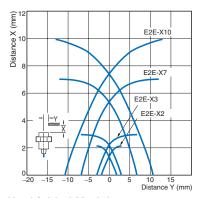
^{*} The response frequency is an average value. Measurement conditions are as follows: standard sensing object, a distance of twice the standard sensing object, and a set distance of half the sensing distance.

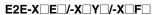
Engineering Data (Reference Value)

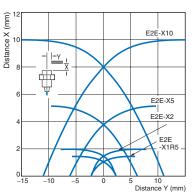
Sensing Area

Shielded Models

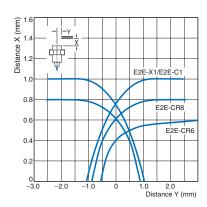
E2E-X D /-X T1





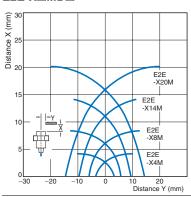


E2E-C C -X C E2E-C B1/-X B

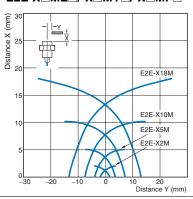


Unshielded Models

E2E-X MD

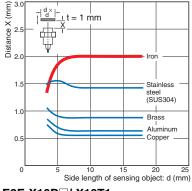


E2E-X ME -X MY -X MF

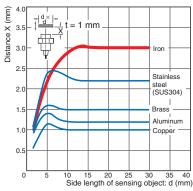


Influence of Sensing Object Size and Material

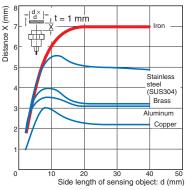
E2E-X2D



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

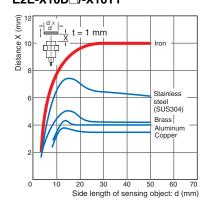


E2E-X7D /-X7T1

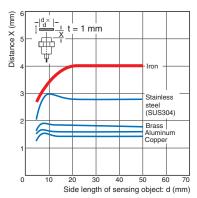


E2E-X10D /-X10T1

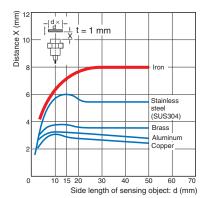
OMRON

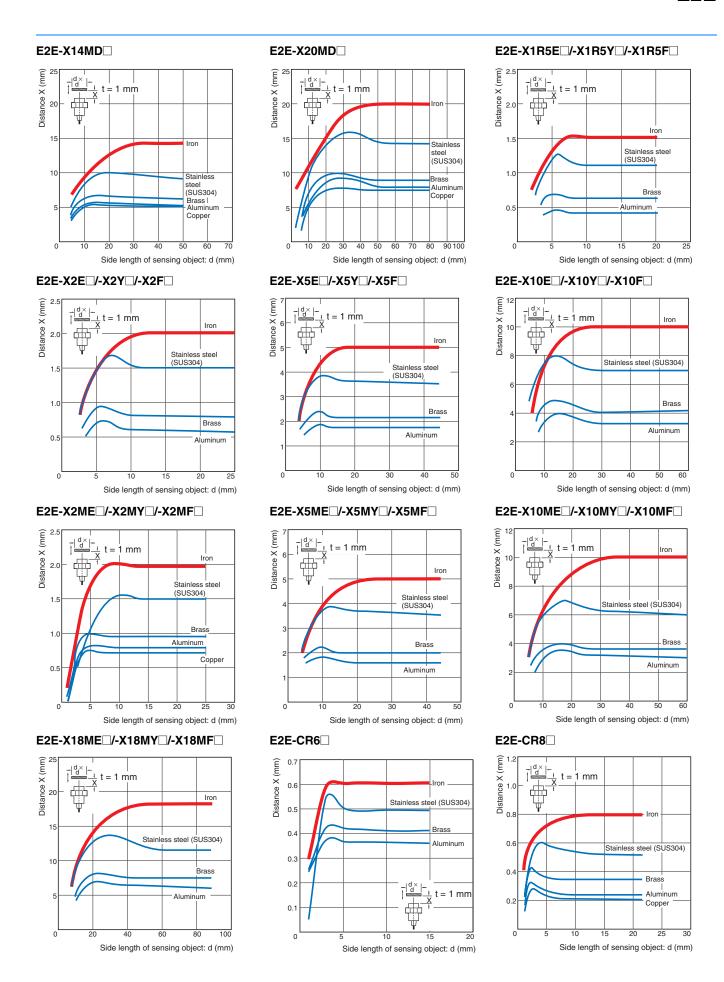


E2E-X4MD

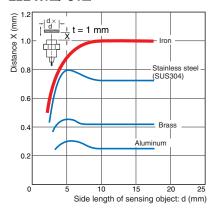


E2E-X8MD



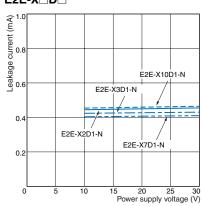


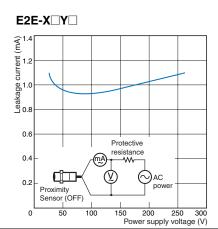
E2E-X1□/-C1□

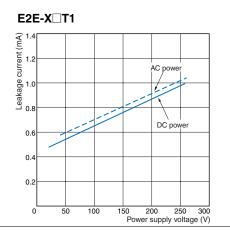


Leakage Current



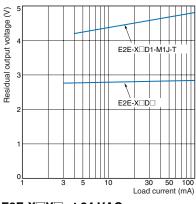




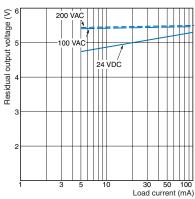


Residual Output Voltage

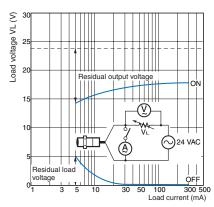
E2E-X□D□



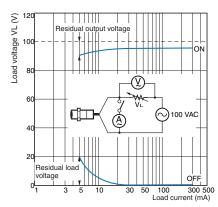




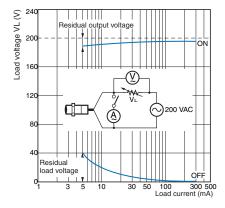
E2E-X□Y□ at 24 VAC



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-	E2E-X□D1-N E2E-X□D1-M1G(J) E2E-X□D1-(M1TGJ)-U E2E-X□D1-M3G	Non-sensing area area Sensing object Set position sensing area Sensing object (%) 100 80 0	Polarity: Yes The load can be connected to either the +V or 0 V side.
diagnostic output: NO	E2E-X□D1-M1J-T	Rated sensing distance ON OFF (green) ON Operation indicator (red) ON OFF Control output	Polarity: None 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	Non-sensing area Sensing object (%) 100 0 Rated sensing distance ON Operation indicator (red) ON OFF Control output	Proximity Brown +V Sensor main circuit 2 Blue 0 V 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	Vinitable Sensing Sensing Sensing area Stable sensing area Sensing Object Sensing Object Sensing Object Sensing ON Rated Sensing ON OFF Setting indicator (green) OFF Operation indicator (red) 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 Load +V Conage (2) +V Conage (2) +V

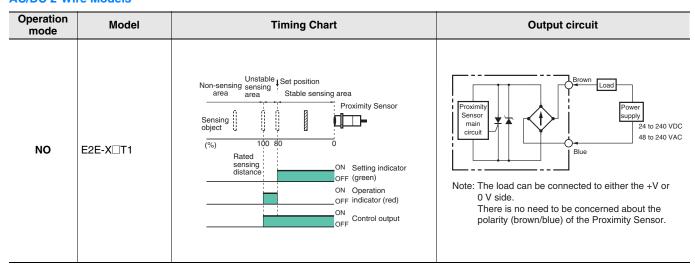
DC 3-Wire Models

Operation mode	Output specifica-tions	Model	Timing Chart	Output circuit
NO	- NPN output	E2E-X□E□ E2E-X□E□-M1	Sensing Present object Not present Operation ON indicator (red) OFF Control output (between brown and black leads) OFF Output voltage (between black and blue leads)	Proximity Sensor main circuit Black Tr
NC	N N output	E2E-X□E□-M3	Sensing object Present Not present Operation indicator (red) Control output (between brown and black leads) Output voltage (between black and blue leads) Present ON OFF 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	Sensing object Present Not present Operation indicator ON (red) OF Control output OFF (Between blue and ON black leads) OFF Output voltage (between brown and black leads) Low	Brown Proximity Sensor main circuit Black Load
NC	·	E2E-X□F□-M3	Sensing object Present Operation indicator (red) ON Control output (Between blue and ON 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.
NO	NPN open-	E2E-C/X□C□	Sensing Present object Not present Operation ON indicator (red) OFF Control output OFF OFF	Proximity Sensor Main Black Black
NC	collector output	E2E-0/XU0U	Sensing Present object Not present Operation ON indicator (red) OFF Control ON output OFF	*The E2E-CR6□ does not have 100-Ω resistance.
NO	PNP open- collector output		Sensing Present object Not present Operation ON indicator (red) OFF Control output OFF OFF	Brown +V Proximity Sensor Black
NC		E2E-C/X□B□	Sensing Present object Not present Operation ON indicator (red) OFF Control output OFF	*The E2E-CR6□ does not have 100-Ω resistance.

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 Operate Reset	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



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	F0F V□D4 M4C(I)	1
A		L-shape	XS2F-D422-DA0-F	XS2F-D422-GA0-F	E2E-X□D1-M1G(J)	Į.
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
		Straight	XS2F-D421-DD0	XS2F-D421-GD0	E2E-X□D1-M1J-T	3
С		Straight	X32F-D421-DD0	A32F-D421-GD0	E2E-X□D1-M1	2
C		Labana	XS2F-D422-DD0	XS2F-D422-GD0	E2E-X□D1-M1J-T	3
		L-shape	X52F-D422-DD0	X52F-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
			X321 -D421-D00-1	X321 -D421-G00-1	E2E-X□D1S-M1	5
					11	
D	M12				E2E-X□D2-M1G(J)	6
					E2E-X□D2-M1J-T	8
		L-shape	XS2F-D422-D80-F	XS2F-D422-G80-F	E2E-X□D2-M1	7
		L-Silape	X321 -D422-D00-1	X321 -D422-G00-1	E2E-X□D1S-M1	5
					E2E-X□E2-M1 E2E-X□F2-M1	11
Е		Straight	XS2F-A421-DB0-F	XS2F-A421-GB0-F	E2E-X□Y1-M1	14
E		L-shape	XS2F-A422-DB0-F	XS2F-A422-GB0-F		14
F		Straight	XS2F-A421-D90-F	XS2F-A421-G90-F	E2E-X□Y2-M1	15
G		Smartclick Connector, Straight	XS5F-D421-D80-F	XS5F-D421-G80-F	E2E-X□D1-M1TGJ	16
Н		Smartclick Connector, Straight	XS5F-D421-D80-P	XS5F-D421-G80-P	E2E-X□D1-M1TGJ-U	17
		Oil-resistant Reinforced Cables			E2E-X□D2-M1TGJ-U	18
					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 Se	ensor	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
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 O O O O Blue (-) O Brown (+)
3	DC 2-wire (no polarity)	NO	E2E-X□D1-M1J-T	T1: Straight 2: L-shape XS2F-D42 - D0 D: 2-m cable G: 5-m cable	E2E XS2F
4	DC 2-wire (M8 connector)		E2E-X□D1-M3G	1: 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	1: Straight 2: L-shape XS2F-D42 80-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	E2E XS2F* O Brown (+) O White (-) O Blue (not connected) O Black (not connected)
7	DC 2-wire (previous pin wiring)	NC	E2E-X□D2-M1	1: Straight 2: L-shape XS2F-D42 80-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	T1: 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 Sensor		Sensor I/O Connector	
diagram No.	Туре	Operation mode	Model	model number	Connections
10	DC 3-wire	NO	E2E-X□E/F1-M1	T1: Straight 2: L-shape XS2F-D42□-□C0-F □: 2-m cable G: 5-m cable	E2E XS2F Brown (+V) Blue (0 V) Black (output)
11	- DC 3-wile	NC	E2E-X□E2/F2-M1	XS2F-D42 - B0-F D: 2-m cable G: 5-m cable	E2E XS3F O Brown (+V) O White (not connected) O Blue (0 V) O Black (output)
12	DC 3-wire (M8 connector)	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 OBrown (+V) White (not connected) OBlue (0 V) OBlack (output)
13		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	7.6 Z 0	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	DC 2-wire (Smartclick connector)	NO	E2E-X□D1-M1TGJ	XS5F-D421-□80-F D: 2-m cable G: 5-m cable	E2E XS5F Shown (+) White (not connected) Black (-)
17		NO	E2E-X□D1- M1TGJ-U	XS5F-D421-□80-P D: 2-m cable G: 5-m cable	E2E XS5F O Brown (+) O White (not connected) O Black (-) O Black (-)
18		NC	E2E-X□D2- M1TGJ-U	XS5F-D421-□80-P D: 2-m cable G: 5-m cable	E2E XS5F 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.

♠ WARNING

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
- Do not supply power to the Sensor with no load, otherwise Sensor may be damaged.

Applicable Models

E2E-CR6□ E2E-CR8 E2E-X1 E2E-C1



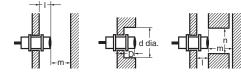
Precautions for Correct Use

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

Design

Influence of Surrounding Metal

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



Influence of Surrounding Metal

(Unit: mm)

Model		Item	M8	M12	M18	M30
		I		()	•
		d	8	12	18	30
	Shielded	D		()	
DC 2-Wire Models		m	4.5	8	20	40
E2E-X□D□		n	12	18	27	45
AC/DC 2-Wire Models			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
			0			
	Shielded	d	8	12	18	30
		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		I	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
Model		Item	3 dia.	4 dia.	M5	5.4 dia.
		ı		()	
DC 3-Wire Models		d	3	4	5	5.4
E2E-X\(\text{\text{C}}\)(B\(\text{\text{B}}\)	Shielded	D	0			
E2E-C□C/B□		m	2	2.4	3	3
		n	6	6	8	3

Relationship between Sizes and Models

	Model	Model
3 dia.		E2E-CR6C/B
4 dia.		E2E-CR8C□
4 ula.		E2E-CR8B□
M5	Shielded	E2E-X1C
IVIO		E2E-X1B□
5.4		E2E-C1C□
dia.		E2E-C1B□
		E2E-X2D□
	Shielded	E2E-X1R5E□
	Officiaca	E2E-X1R5F□
M8		E2E-X1R5Y□
IVIO		E2E-X4MD□
	Unshielded	E2E-X2ME□
	Orisilielded	E2E-X2MF□
		E2E-X2MY□
		E2E-X3D□
	Shielded	E2E-X2E□
		E2E-X2F□
		E2E-X2Y□
M12		E2E-X3T1
		E2E-X8MD□
	Unshielded	E2E-X5ME□
		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□
	Shielded	E2E-X10F□
		E2E-X10Y
M30		E2E-X10T1
		E2E-X20MD□
	Unshielded	E2E-X18ME
		E2E-X18MF
		E2E-X18MY□

OMRON

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	M8	M12	M18	M30
DC 2-Wire Models	Shielded	Α	20	30 (20)	50 (30)	100 (50)
E2E-X□D□	Sillelded	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	Orisilielded	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□		В	15	20 (12) *	35 (18) *	70 (35)
AC 2-Wire Models	Unshielded	Α	80	120 (60)	200 (100)	300 (100)
E2E-X□Y□		В	60	100 (50)	110 (60)	200 (100)

Model		Item	3 dia.	4 dia.	M5	5.4 dia.
DC 3-Wire Models E2E-X□C/B□	Shielded	Α	20			
E2E-C□C/B□	Silleided	В			15	

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.

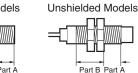
Mounting

Tightening Force

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





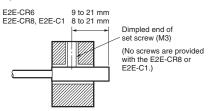


Note: 1. The allowable tightening strength depends on the distance from the edge of the head, as shown in the following table. (A is the distance from the edge of the head. B includes the nut on the head side. If the edge of the nut is in part A, the tightening torque for part A applies instead.)

2. The following strengths assume washers are being used

Model		Part	Part A		
		Dimension	Dimension Torque		
M5			1 N·m		
M8	Shielded	9	9 N⋅m	12 N·m	
IVIO	Unshielded	3	9 IV-III	12 IN-III	
M12			30 N⋅m		
M18		70 N⋅m			
M30		180 N·m			

Refer to the following to mount the E2E-CR6, E2E-CR8 and E2E-C1 Unthreaded Cylindrical Models.



When using a set screw, tighten it to a torque of 0.2 N·m max. (E2E-C1: 0.4 N·m max.)

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. $V_{ON} \leq V_{CC} - V_{R}$
- The OFF current of the PLC and the leakage current of the Proximity Sensor must satisfy the following. IOFF ≥ Ileak

(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.

 $\mathsf{lout}\;(\mathsf{min.}) \leq \mathsf{lon} \leq \mathsf{lout}\;(\mathsf{max.})$ 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 - Vr - Vpc)/Rin

Example

In this example, the above conditions are checked when the PLC Unit is the C200H-ID212, the Proximity Sensor is the E2E-X7D1-N, and the power supply voltage is 24 V.

- 1. Von (14.4 V) \leq Vcc (20.4 V) VR (3 V) = 17.4 V:OK 2. IOFF (1.3 mA) \geq Ileak (0.8 mA): OK 3. Ion = [Vcc (20.4 V) VR (3 V) VPLC (4 V)]/RIN (3 k Ω) = Approx. 4.5 mA Therefore, lout (min.) (3 mA) \leq lon (4.5 mA): OK Connection is thus possible.

Von: ON voltage of PLC (14.4 V) Ion: ON current of PLC (typically 7 mA) IOFF: OFF current of PLC (1.3 mA) R_{IN}: Input impedance of PLC (3 $k\Omega$) VPc: Internal residual voltage of PLC (4 V) VR: Output residual voltage of Proximity Sensor (3 V) Ileak: Leakage current of Proximity Sensor (0.8 mA) Control output of Proximity Sensor (3 to 100 mA)

Vcc: Power supply voltage (PLC: 20.4 to 26.4 V) Values in parentheses apply to the following PLC model and Proximity Sensor model.

C200H-ID212 Sensor: E2E-X7D1-N

^{*} 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 Model	s	AC 2-Wire Mode	ls	AC/DC 2-Wire Mo	odels
Model	Shield	ed	Model	No.	Model	No.	Model	No.	Model	No.
		3 dia.			E2E-CR6□	1				
		4 dia.			E2E-CR8□	2				
		M5			E2E-X1□	4				
	Shielded	5.4 dia.			E2E-C1□	3				
	Sillelded	M8	E2E-X2D□	5	E2E-X1R5E□/F□	5	E2E-X1R5Y□	7		
Pre-wired Models		M12	E2E-X3D□	9	E2E-X2E□/F□	9	E2E-X2Y□	11	E2E-X3T1	13
rie-wired Models		M18	E2E-X7D□	14	E2E-X5E□/F□	14	E2E-X5Y□	14	E2E-X7T1	14
		M30	E2E-X10D□	16	E2E-X10E□/F□	16	E2E-X10Y□	16	E2E-X10T1	16
		M8	E2E-X4MD□	6	E2E-X2ME□/F□	6	E2E-X2MY□	8		
	l Inchielded	M12	E2E-X8MD□	10	E2E-X5ME□/F□	10	E2E-X5MY□	12		
	Unshielded	M18	E2E-X14MD□	15	E2E-X10ME□/F□	15	E2E-X10MY□	15		
		M30	E2E-X20MD□	17	E2E-X18ME□/F□	17	E2E-X18MY□	17		
		M8	E2E-X2D□-M1(G)	18	E2E-X1R5E/F□-M1	18				
	01:11	M12	E2E-X3D□-M1(G)	20	E2E-X2E/F□-M1	20	E2E-X2Y□-M1	22		
	Shielded	M18	E2E-X7D□-M1(G)	24	E2E-X5E/F□-M1	24	E2E-X5Y□-M1	24		
Connector		M30	E2E-X10D□-M1(G)	26	E2E-X10E/F□-M1	26	E2E-X10Y□-M1	26		
Models (M12)		M8	E2E-X4MD□-M1(G)	19	E2E-X2ME/F□-M1	19				
` ,		M12	E2E-X8MD□-M1(G)	21	E2E-X5ME/F□-M1	21	E2E-X5MY□-M1	23		
	Unshielded	M18	E2E-X14MD□-M1(G)	25	E2E-X10ME/F□-M1	25	E2E-X10MY□-M1	25		
		M30	E2E-X20MD□-M1(G)	27	E2E-X18ME/F□-M1	27	E2E-X18MY□-M1	27		
Connector	Shielded		E2E-X2D□-M3G	28	E2E-X1R5E/F□-M3	28				
Models (M8)	Unshielded	M8	E2E-X4MD□-M3G	29	E2E-X2ME/F□-M3	29				
,		M8	E2E-X2D□-M1(T)GJ(-U)	30		-				
	01:11	M12	E2E-X3D□-M1(T)GJ(-U)	31						
Pre-wired	Shielded	M18	E2E-X7D□-M1(T)GJ(-U)	33						
Connector			E2E-X10D□-M1(T)GJ(-U)	35						
Models		M12	E2E-X8MD1-M1(T)GJ	32						
Unshielded	M18	E2E-X14MD1-M1(T)GJ	34							
	M30	E2E-X20MD1-M1(T)GJ	36							
Pre-wired		M12	E2E-X3D1-M1J-T	31						
Connector Models	Shielded	M18	E2E-X7D□-M1J-T	33						
(no polarity)		M30	E2E-X10D□-M1J-T	35						

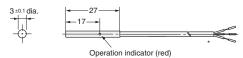
Note 1. Two clamping nuts and one toothed washer are provided with M8 to M30 Models.

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)

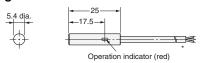


Diagram 1 E2E-CR6B / CR6C



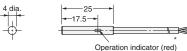
*2.4-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.08 mm², Insulator diameter: 0.7 mm)

E2E-C1B /C1C Diagram 3



*2.9-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.14 mm², Insulator diameter: 0.9 mm), Standard length: 2 m Robotics Cable Models: 2.9-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.15 mm², Insulator diameter: 1.05 mm), Standard length: 2 m The cable can be extended up to 100 m (separate metal conduit).

Diagram 2 E2E-CR8B / CR8C



*2.9-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.14 mm², Insulator diameter: 0.9 mm), Standard length: 2 m Robotics Cable Models: 2.9-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.15 mm², Insulator diameter: 1.05 mm), Standard length: 2 m The cable can be extended up to 100 m (separate metal conduit).

Mounting Hole Dimensions



Dimension	3 dia.	4 dia.	5.4 dia.	
F (mm)	3.3 ^{+0.3} dia.	4.2 ^{+0.5} ₀ dia.	5.7 ^{+0.5} dia.	

OMRON

Pre-wired Models (Shielded)

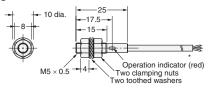


Mounting Hole Dimensions



Dimension	M5	М8	M12	
F (mm)	5.5 ^{+0.5} dia.	$8.5^{+0.5}_{0}$ dia.	12.5 ^{+0.5} dia.	

Diagram 4 E2E-X1B□/X1C□



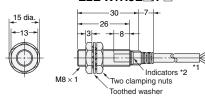
*2.9-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.14 mm2, Insulator diameter: 0.9 mm), Standard length: 2 m Robotics Cable Models

2.9-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.15 mm², Insulator diameter: 1.05 mm), Standard length: 2 m The cable can be extended up to 100 m (separate metal conduit).

Pre-wired Models (Unshielded)



Diagram 5 E2E-X2D E2E-X1R5E /F



- Toothed washer

 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: 1.2 mm), Standard length: 2 m

 4-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.2 mm), Standard length: 2 m

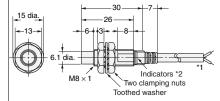
 Models with Highly Oil-resistant Cables:

 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 up to 200 m (separate metal conduit).

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

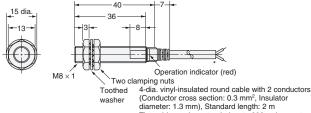
Diagram 6 E2E-X4MD E2E-X2ME /F



- *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
 5 mm), Standard length: 2 m
 6 mm), Standard length: 2 m
 7 mm), Standard length: 2 m
 7 mm), Standard length: 2 m
 7 mm), Standard length: 2 m
 8 mm, Standard length: 2 m
 8 mm, Standard length: 2 m
 9 mm, Standard length: 2 mm, Standard length:
- 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)

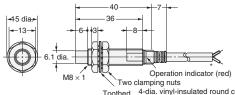
E2E-X1R5Y Diagram 7



(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 8 E2E-X2MY



Two clamping nuts
thed
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).

E2E-X3D Diagram 9



- *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. 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 Oil-resistant Cables:

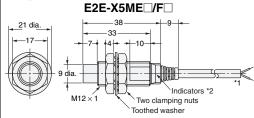
 4-dia. polyurethane-insulated round cable with 2 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.3 mm), Standard length: 2 m

 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.

- diagnostic output.

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

Diagram 10 E2E-X8MD



- *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. 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)

Diagram 11 E2E-X2Y□

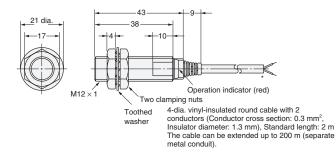
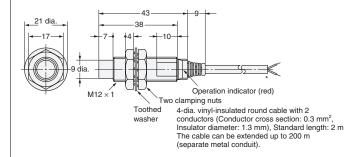


Diagram 12 E2E-X5MY□



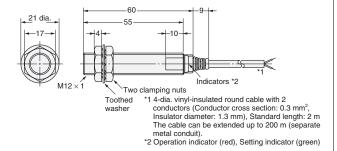
Pre-wired Models (Shielded)

Mounting Hole Dimensions



Dimension	М8	M12	M18	M30
F (mm)	$8.5^{+0.5}_{0}$ dia.	12.5 ^{+0.5} dia.	18.5 ^{+0.5} dia.	$30.5^{+0.5}_{0}$ dia.

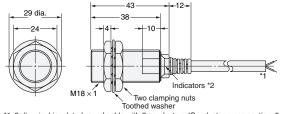
Diagram 13 E2E-X3T1



Pre-wired Models (Unshielded)



Diagram 14 E2E-X7D□/E2E-X5E□/F□ E2E-X5Y\\(\)/E2E-X7T1

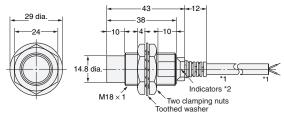


- *1. 6-dia. vinyl-insulated round cable with 2 conductors (Conductor cross section: 0.5 mm²,
- Insulator diameter: 1.9 mm), Standard length: 2 m
 6-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.9 mm), Standard length: 2 m
 Robotics Cable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

- Insulator diameter: 1.74 mm), Standard length: 2 m Models with lighly Oil-resistant Cables: 6-dia, polyurethane-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 15 E2E-X14MD□/E2E-X10ME□/F□ E2E-X10MY



- Toothed washer

 *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:
- 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/E/Y Models: Operation indicator (red)

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

Diagram 16 E2E-X10D□/E2E-X10E□/F□ E2E-X10Y\(\subseteq\)/E2E-X10T1

42 dia -36 +10 Indicators *2 M30 × 1.5 Two clamping nuts Toothed washer

*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,

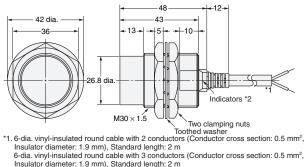
Insulator diameter: 1.74 mm), Standard length: 2 m 6-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.5 mm², Insulator diameter: 1.74 mm), Standard length: 2 m

Insulator diameter: 1.74 mm), Standard length: 2 m
Models with Highly Oil-resistant:
6-dia. polyurethane-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)

M8 Connector Models (Shielded)



Diagram 17 E2E-X20MD□/E2E-X18ME□/F□ E2E-X18MY



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,

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 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)

M8 Connector Models (Unshielded)



Diagram 28 E2E-X2D□-M3G/E2E-X1R5E□-M3/X1RF□-M3



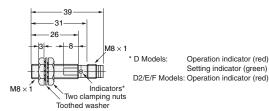
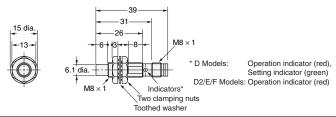


Diagram 29 E2E-X4MD□-M3G/E2E-X2ME□-M3/X2MF□-M3



M12 Connector Models (Shielded)

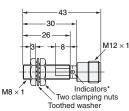


M12 Connector Models (Unshielded)



Diagram 18 E2E-X2D□-M1(G) E2E-X1R5E -M1/E2E-X1R5F -M1

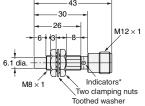




Operation indicator (red) * D1 Models: Setting indicator (green) D2/E/F Models: Operation indicator (red)

Diagram 19 E2E-X4MD□-M1(G) E2E-X2ME -M1/E2E-X2MF -M1

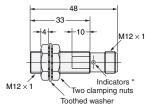




* D1 Models: Operation indicator (red), Setting indicator (green) D2/E/F Models: Operation indicator (red)

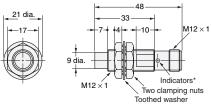
Diagram 20 E2E-X3D□-M1(G) E2E-X2E□-M1/E2E-X2F□-M1





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

Diagram 21 E2E-X8MD□-M1(G) E2E-X5ME□-M1/E2E-X5MF□-M1



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

Diagram 22 E2E-X2Y□-M1



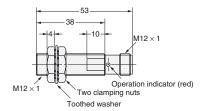


Diagram 23 E2E-X5MY□-M1

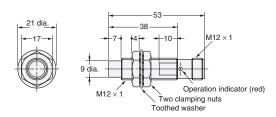


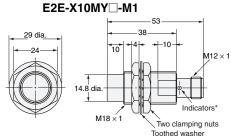
Diagram 24 E2E-X7D□-M1(G)/E2E-X5E□-M1/X5F□-M1 E2E-X5Y□-M1



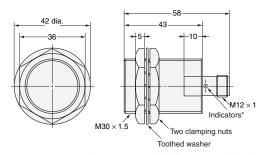


* D1 Models: Operation indicator (red), Setting indicator (green) D2/E/Y Models: Operation indicator (red)

Diagram 25 E2E-X14MD□-M1(G)/E2E-X10ME□-M1 X10MF□-M1

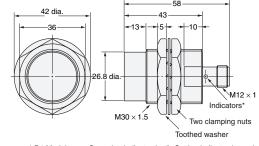


* D1 Models: Operation indicator (red), Setting indicator (green) D2/E/Y Models: Operation indicator (red)



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

Diagram 27 E2E-X20MD□-M1(G)/E2E-X18ME□-M1/ X18MF□-M1 E2E-X18MY□-M1



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

Mounting Hole Dimensions



Dimensions	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.

Pre-wired Connector Models (Shielded)



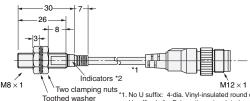
Mounting Hole Dimensions



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

Diagram 30 E2E-X2D□-M1TGJ-U *3 E2E-X2D1-M1TGJ

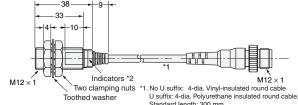




- 3. No U suffix: 4-dia. Vinyl-insulated round cable
 U suffix: 4-dia. Polyurethane insulated round cable,
 Standard length: 300 mm
 22. D1 Models: Operation indicator (red), Setting indicator (green)
 D2 Models: Operation indicator (red)
 3. The connectors for M1TGJ models are XS5 Smartclick connectors.

Diagram 31 E2E-X3D□-M1GJ E2E-X3D1-M1J-T E2E-X3D□-M1TGJ-U *3 E2E-X3D1-M1TGJ





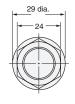
- Standard length: 300 mm

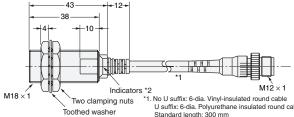
 2. D1 Models: Operation indicator (red), Setting indicator (green)
 D2 Models: Operation indicator (red)

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

Diagram 33 E2E-X7D□-M1GJ E2E-X7D□-M1J-T

E2E-X7D□-M1TGJ-U *3 E2E-X7D1-M1TGJ

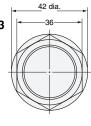


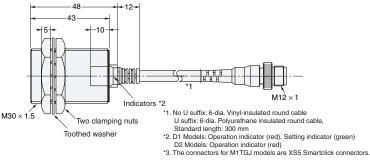


- U suffix: 6-dia. Polyurethane insulated round cable, Standard length: 300 mm
- 2. D1 Models: Operation indicator (red), Setting indicator (green)
 D2 Models: Operation indicator (red)
 3. The connectors for M1TGJ models are XS5 Smartclick connectors.

Diagram 35 E2E-X10D□-M1GJ E2E-X10D□-M1J-T

E2E-X10D -M1TGJ-U *3 E2E-X10D1-M1TGJ





Pre-wired Connector Models (Unshielded)

Diagram 32 E2E-X8MD1-M1GJ E2E-X8MD1-M1TGJ



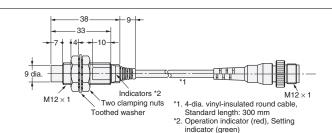


Diagram 34 E2E-X14MD□-M1GJ E2E-X14MD1-M1TGJ



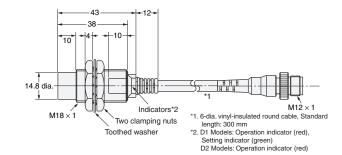
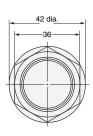
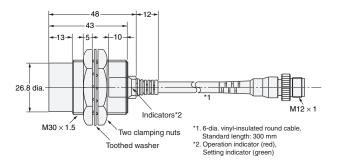


Diagram 36 E2E-X20MD1-M1GJ E2E-X20MD1-M1TGJ





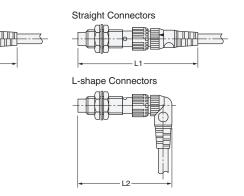
Dimensions for Proximity Sensors with Sensor I/O Connectors

Shielded Models

Straight Connectors

L-shape Connectors

Unshielded Models



Dimensions with the XS2F Connected (Unit: mm)

Dimension Sensor diameter		L1	L2
M8		Approx. 75	Approx. 62
M12*	DC	Approx. 80	Approx. 67
IVI I Z	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 warranty.

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.

<u>Errors and Omissions.</u> <u>Information presented by Omron Companies has been checked and is believed to be accurate; however, no responsibility is accurate.</u> assumed for clerical, typographical or proofreading errors or omissions.

2014.5

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-X10ME1 E2E-X2D2-M1 E2E-X5ME1-M1 E2E-X1R5E1 E2E-C1C1 E2E-CR8C1 E2E-CR8B1 E2E-X1B1 E2E-X1B2 E2EX10D1M1GN E2EX10D1M1GT1N E2EX10D1M1N E2EX10D1NN E2E-C1C1 10M E2E-C1C1-5M E2E-C1C1-R E2E-X10D15-M1J-T 0.3M 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-N3 E2E-X10D2-M1G-T1 E2E-X10D2-M1G-T3 E2E-X10D2-M1J-T4N 0.3M 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-X10ME1-M1 E2E-X10ME2 E2E-X10MF1 E2E-X10MF1-M1 E2E-X10MY1-M1 E2E-X10MY1-M4 E2E-X10MY2-M1 E2E-X10MY2-M4 E2E-X10Y1-5 E2E-X10Y15 10M E2E-X10Y1-M4 E2E-X10Y2-M4 E2E-X14MD1-M1GJ E2E-X14MD1-M1J 0.3M E2E-X14MD2 E2E-X14MD2-M1G E2E-X18ME1 E2E-X18ME1 5M E2E-X18ME1-M1J 0.3M E2E-X18ME2 E2E-X18ME2-M1 E2E-X18MF1 E2E-X18MF1-M1J 0.3M E2E-X18MF2 E2E-X18MY1-M1 E2E-X18MY1-M4 E2E-X18MY2-M4 E2E-X1B1 5M E2E-X1B1-R E2E-X1C1-3 E2E-X1C1 5M E2E-X1C1-R E2E-X1C2 E2E-X1C2 5M E2E-X1R5E1 5M E2E-X1R5E1-M1 E2E-X1R5E2-M1 E2E-X1R5E2-M3 E2E-X1R5F1 5M E2E-X1R5F1-M1 E2E-X1R5F1-R E2E-X1R5F2-M1 E2E-X1R5F2-M3 E2E-X1R5Y1 E2E-X1R5Y1 5M E2E-X1R5Y1-G7 10M E2E-X1R5Y2 E2E-X20MD15 E2E-X20MD1 5M E2E-X20MD1-M1 E2E-X20MD1-M1G E2E-X20MD1-M1GJ E2E-X20MD1-M1J 0.3M E2E-X20MD2 E2E-X20MD2-M1 E2E-X20MD2-M1G E2E-X2D1-M1GJ 0.3M E2E-X2D1-M1J 0.3M E2E-X2D1-R 5M