

Ordering Information

Note: DC 2-Wire Models have been integrated into the E2E NEXT Series at the end of october 2022.
Refer to the catalog (Cat. No. D120) for details.

2-Wire Models

Shielded DC 2-wire Models with No Self-diagnostic Output [Refer to *Dimensions* on page 20.]



Appearance	Sensing distance			Connection method	Cable specifications	Polarity	Operation mode	Pin arrangement	Applicable connector code *2	Model
M8	2 mm			M12 Pre-wired Smart-click Connector Models (0.3m)	PVC (oil-resistant)	Yes	NO	1: +V, 4: 0 V	E	E2E-X2D1-M1TGJ 0.3M
				Pre-wired Models (2 m)	PVC (oil-resistant)		NO	---	---	E2E-X2D1-N 2M
							NC	---	---	E2E-X2D2-N 2M
				M12 Connector Models	---		NO	1: +V, 4: 0 V	A	E2E-X2D1-M1G
							NC	1: +V, 2: 0 V	D	E2E-X2D2-M1G
				M8 Connector Models	---		NO	1: +V, 4: 0 V	F	E2E-X2D1-M3G
							NC	1: +V, 2: 0 V		E2E-X2D2-M3G
M12	3 mm			M12 Pre-wired Smart-click Connector Models (0.3m)	PVC (oil-resistant)	Yes	NO	1: +V, 4: 0 V	E	E2E-X3D1-M1TGJ 0.3M
				Pre-wired Models (2 m)	PVC (oil-resistant)		NO	---	---	E2E-X3D1-N 2M *1
							NC	---	---	E2E-X3D2-N 2M
				M12 Connector Models	---		NO	1: +V, 4: 0 V	A	E2E-X3D1-M1G *1
							NC	1: +V, 2: 0 V	D	E2E-X3D2-M1G
				M12 Standard Pre-wired Connector Models (0.3 m)	PVC (oil-resistant)	Yes	NO	1: +V, 4: 0 V	A	E2E-X3D1-M1GJ 0.3M
							NC	1: +V, 2: 0 V	D	E2E-X3D2-M1GJ 0.3M
							NO	(3, 4): (+V, 0 V)	C	E2E-X3D1-M1J-T 0.3M
							NC	(1, 2): (+V, 0 V)	D	---
M18	7 mm			M12 Pre-wired Smart-click Connector Models (0.3m)	PVC (oil-resistant)	Yes	NO	1: +V, 4: 0 V	E	E2E-X7D1-M1TGJ 0.3M
				Pre-wired Models (2 m)	PVC (oil-resistant)		NO	---	---	E2E-X7D1-N 2M *1
							NC	---	---	E2E-X7D2-N 2M
				M12 Connector Models	---		NO	1: +V, 4: 0 V	A	E2E-X7D1-M1G *1
							NC	1: +V, 2: 0 V	D	E2E-X7D2-M1G
				M12 Standard Pre-wired Connector Models (0.3 m)	PVC (oil-resistant)	Yes	NO	1: +V, 4: 0 V	A	E2E-X7D1-M1GJ 0.3M
							NC	1: +V, 2: 0 V	D	E2E-X7D2-M1GJ 0.3M
							NO	(3, 4): (+V, 0 V)	C	E2E-X7D1-M1J-T 0.3M
							NC	(1, 2): (+V, 0 V)	D	E2E-X7D2-M1J-T 0.3M
M30	10 mm			M12 Pre-wired Smart-click Connector Models (0.3m)	PVC (oil-resistant)	Yes	NO	1: +V, 4: 0 V	E	E2E-X10D1-M1TGJ 0.3M
				Pre-wired Models (2 m)	PVC (oil-resistant)		NO	---	---	E2E-X10D1-N 2M *1
							NC	---	---	E2E-X10D2-N 2M
				M12 Connector Models	---		NO	1: +V, 4: 0 V	A	E2E-X10D1-M1G *1
							NC	1: +V, 2: 0 V	D	E2E-X10D2-M1G
				M12 Standard Pre-wired Connector Models (0.3 m)	PVC (oil-resistant)	Yes	NO	1: +V, 4: 0 V	A	E2E-X10D1-M1GJ 0.3M
							NC	1: +V, 2: 0 V	D	E2E-X10D2-M1GJ 0.3M
							NO	(3, 4): (+V, 0 V)	C	E2E-X10D1-M1J-T 0.3M
							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 15 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 19

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Refer to the catalog (Cat. No. D120) for details.

2-Wire Models

Shielded DC 2-Wire UL-recognized Models with No Self-diagnostic Output [Refer to *Dimensions* on page 20.]



Appearance	Sensing distance			Connection method	Cable specifications	Polarity	Operation mode	Pin arrangement	Applicable connector code *	Model
M8	2 mm			M12 Pre-wired Smart-click Connector Models (0.3 m)	PVC (oil-resistant)	Yes	NO	1: +V, 4: 0 V	E	E2E-X2D1-M1TGJ-US 0.3M
							NC	1: +V, 2: 0 V		E2E-X2D2-M1TGJ-US 0.3M
				Pre-wired Models (2 m)			NO	---	---	E2E-X2D1-US 2M
							NC	---		E2E-X2D2-US 2M
M12	3 mm			M12 Pre-wired Smart-click Connector Models (0.3 m)			NO	1: +V, 4: 0 V	E	E2E-X3D1-M1TGJ-US 0.3M
							NC	1: +V, 2: 0 V		E2E-X3D2-M1TGJ-US 0.3M
				Pre-wired Models (2 m)			NO	---	---	E2E-X3D1-US 2M
							NC	---		E2E-X3D2-US 2M
M18	7 mm			M12 Pre-wired Smart-click Connector Models (0.3 m)			NO	1: +V, 4: 0 V	E	E2E-X7D1-M1TGJ-US 0.3M
							NC	1: +V, 2: 0 V		E2E-X7D2-M1TGJ-US 0.3M
				Pre-wired Models (2 m)			NO	---	---	E2E-X7D1-US 2M
							NC	---		E2E-X7D2-US 2M
M30	10 mm			M12 Pre-wired Smart-click Connector Models (0.3 m)			NO	1: +V, 4: 0 V	E	E2E-X10D1-M1TGJ-US 0.3M
							NC	1: +V, 2: 0 V		E2E-X10D2-M1TGJ-US 0.3M
				Pre-wired Models (2 m)			NO	---	---	E2E-X10D1-US 2M
							NC	---		E2E-X10D2-US 2M

* Refer to page 15 for details.

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2-Wire Models

Unshielded DC 2-Wire Models with No Self-diagnosis Output [Refer to *Dimensions* on page 20.]



Appearance	Sensing distance			Connection method	Cable specifications	Polar-ity	Opera-tion mode	Pin arrangement	Applicable connector code *2	Model	
M8		4 mm		Pre-wired Models (2 m)	PVC (oil-resistant)	Yes	NO	---	---	E2E-X4MD1 2M	
				M12 Connector Models	---		NC			E2E-X4MD2 2M	
				M8 Connector Models	---		NO	1: +V, 4: 0 V	A	E2E-X4MD1-M1G	
							NC	1: +V, 2: 0 V	D	E2E-X4MD2-M1G	
							NO	1: +V, 4: 0 V	F	E2E-X4MD1-M3G	
							NC	1: +V, 2: 0 V		E2E-X4MD2-M3G	
M12		8 mm	M12 Pre-wired Smart-click Connector Models (0.3m)	PVC (oil-resistant)	NO		1: +V, 4: 0 V	E	E2E-X8MD1-M1TGJ 0.3M		
				Pre-wired Models (2 m)	PVC (oil-resistant)		NO	---	---	E2E-X8MD1 2M *1	
			M12 Connector Models	---	NC		E2E-X8MD2 2M				
			M12 Standard Pre-wired Connector Mod-els (0.3 m)	PVC (oil-resistant)			NO	1: +V, 4: 0 V	A	E2E-X8MD1-M1G *1	
							NC	1: +V, 2: 0 V	D	E2E-X8MD2-M1G	
							NO	1: +V, 4: 0 V	A	E2E-X8MD1-M1GJ 0.3M	
							NC	1: +V, 2: 0 V	D	---	
			M18		14 mm		M12 Pre-wired Smart-click Connector Models (0.3m)	PVC (oil-resistant)	NO	1: +V, 4: 0 V	E
Pre-wired Models (2 m)	PVC (oil-resistant)	NO						---	---	E2E-X14MD1 2M *1	
M12 Connector Models	---	NC					E2E-X14MD2 2M				
M12 Standard Pre-wired Connector Mod-els (0.3 m)	PVC (oil-resistant)						NO	1: +V, 4: 0 V	A	E2E-X14MD1-M1G *1	
							NC	1: +V, 2: 0 V	D	E2E-X14MD2-M1G	
							NO	1: +V, 4: 0 V	A	E2E-X14MD1-M1GJ 0.3M	
							NC	1: +V, 2: 0 V	D	E2E-X14MD2-M1GJ 0.3M	
M30		20 mm					M12 Pre-wired Smart-click Connector Models (0.3m)	PVC (oil-resistant)	NO	1: +V, 4: 0 V	E
			Pre-wired Models (2 m)	PVC (oil-resistant)	NO			---	---	E2E-X20MD1 2M *1	
			M12 Connector Models	---	NC		E2E-X20MD2 2M				
			M12 Standard Pre-wired Connector Mod-els (0.3 m)	PVC (oil-resistant)			NO	1: +V, 4: 0 V	A	E2E-X20MD1-M1G *1	
							NC	1: +V, 2: 0 V	D	E2E-X20MD2-M1G	
							NO	1: +V, 4: 0 V	A	E2E-X20MD1-M1GJ 0.3M	
							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 15 for details.

Note: DC 2-Wire Models have been integrated into the E2E NEXT Series at the end of October 2022.
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2-Wire Models

Unshielded DC 2-Wire UL-recognized Models with No Self-diagnostic Output [Refer to *Dimensions* on page 20.]



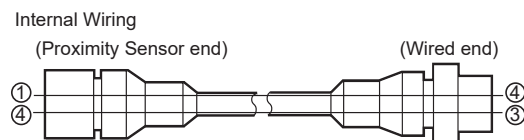
Appearance	Sensing distance			Connection method	Cable specifications	Polarity	Operation mode	Pin arrangement	Applicable connector code *	Model
M8	4 mm			M12 Pre-wired Smart-click Connector Models (0.3 m)	PVC (oil-resistant)	Yes	NO	1: +V, 4: 0 V	E	E2E-X4MD1-M1TGJ-US 0.3M
							NC	1: +V, 2: 0 V		E2E-X4MD2-M1TGJ-US 0.3M
				Pre-wired Models (2 m)			NO	---	---	E2E-X4MD1-US 2M
							NC			E2E-X4MD2-US 2M
M12	8 mm			M12 Pre-wired Smart-click Connector Models (0.3 m)			NO	1: +V, 4: 0 V	E	E2E-X8MD1-M1TGJ-US 0.3M
							NC	1: +V, 2: 0 V		E2E-X8MD2-M1TGJ-US 0.3M
				Pre-wired Models (2 m)			NO	---	---	E2E-X8MD1-US 2M
							NC			E2E-X8MD2-US 2M
M18	14 mm			M12 Pre-wired Smart-click Connector Models (0.3 m)			NO	1: +V, 4: 0 V	E	E2E-X14MD1-M1TGJ-US 0.3M
							NC	1: +V, 2: 0 V		E2E-X14MD2-M1TGJ-US 0.3M
				Pre-wired Models (2 m)			NO	---	---	E2E-X14MD1-US 2M
							NC			E2E-X14MD2-US 2M
M30	20 mm			M12 Pre-wired Smart-click Connector Models (0.3 m)			NO	1: +V, 4: 0 V	E	E2E-X20MD1-M1TGJ-US 0.3M
							NC	1: +V, 2: 0 V		E2E-X20MD2-M1TGJ-US 0.3M
				Pre-wired Models (2 m)			NO	---	---	E2E-X20MD1-US 2M
							NC			E2E-X20MD2-US 2M

* Refer to page 15 for details.

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.

Appearance		Model			
		NO	Applicable connector code *	NC	Applicable connector code *
Shielded	M8	E2E-X2D1-M1	C	E2E-X2D2-M1	D
	M12	E2E-X3D1-M1	C	E2E-X3D2-M1	D
	M18	E2E-X7D1-M1	C	E2E-X7D2-M1	D
	M30	E2E-X10D1-M1	C	E2E-X10D2-M1	D
Unshielded	M8	E2E-X4MD1-M1	C	E2E-X4MD2-M1	D
	M12	E2E-X8MD1-M1	C	E2E-X8MD2-M1	D
	M18	E2E-X14MD1-M1	C	E2E-X14MD2-M1	D
	M30	E2E-X20MD1-M1	C	E2E-X20MD2-M1	D

* Refer to page 15 for details.

Note: DC 3-Wire Models have been discontinued at the end of March 2022.
Refer to the catalog (Cat. No. D120) for details.

3-Wire Models

Shielded DC 3-Wire Models [Refer to Dimensions on page 20.]



Appearance	Sensing distance			Connection method	Cable specifications	Operation mode	Pin arrangement	Applicable connector code ^{*2}	Model	
									NPN output	PNP output
M8	1.5 mm			Pre-wired Models (2 m)	PVC (oil-resistant)	NO	---	---	E2E-X1R5E1 2M	E2E-X1R5F1 2M
					PVC (oil-resistant)	NC			E2E-X1R5E2 2M	E2E-X1R5F2 2M
				M12 Connector Models	---	NO	1: +V, 3: 0 V, 4: Control output	B	E2E-X1R5E1-M1	E2E-X1R5F1-M1
						NC	1: +V, 3: 0 V, 2: Control output	D	E2E-X1R5E2-M1	E2E-X1R5F2-M1
				M8 Connector Models	---	NO	1: +V, 3: 0 V, 4: Control output	F	E2E-X1R5E1-M3	E2E-X1R5F1-M3
						NC	1: +V, 3: 0 V, 2: Control output		E2E-X1R5E2-M3	E2E-X1R5F2-M3
M12	2 mm			Pre-wired Models (2 m)	PVC (oil-resistant)	NO	---	---	E2E-X2E1 2M ^{*1}	E2E-X2F1 2M ^{*1}
						NC			E2E-X2E2 2M	E2E-X2F2 2M
				M12 Connector Models	---	NO	1: +V, 3: 0 V, 4: Control output	B	E2E-X2E1-M1	E2E-X2F1-M1
						NC	1: +V, 3: 0 V, 2: Control output	D	E2E-X2E2-M1	E2E-X2F2-M1
M18	5 mm			Pre-wired Models (2 m)	PVC (oil-resistant)	NO	---	---	E2E-X5E1 2M ^{*1}	E2E-X5F1 2M ^{*1}
						NC			E2E-X5E2 2M	E2E-X5F2 2M
				M12 Connector Models	---	NO	1: +V, 3: 0 V, 4: Control output	B	E2E-X5E1-M1	E2E-X5F1-M1
						NC	1: +V, 3: 0 V, 2: Control output	D	E2E-X5E2-M1	E2E-X5F2-M1
M30	10 mm			Pre-wired Models (2 m)	PVC (oil-resistant)	NO	---	---	E2E-X10E1 2M ^{*1}	E2E-X10F1 2M
						NC			E2E-X10E2 2M	E2E-X10F2 2M
				M12 Connector Models	---	NO	1: +V, 3: 0 V, 4: Control output	B	E2E-X10E1-M1	E2E-X10F1-M1
						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 15 for details.

Note: DC 3-Wire Models have been discontinued at the end of March 2022.
Refer to the catalog (Cat. No. D120) for details.

3-Wire Models

Unshielded DC 3-Wire Models [Refer to *Dimensions* on page 20.]



Appearance	Sensing distance			Connection method	Cable specifications	Operation mode	Pin arrangement	Applicable connector code ^{*2}	Model	
									NPN output	PNP output
M8	2 mm			Pre-wired Models (2 m)	PVC (oil-resistant)	NO	---	---	E2E-X2ME1 2M	E2E-X2MF1 2M
						NC			E2E-X2ME2 2M	E2E-X2MF2 2M
				M12 Connector Models	---	NO	1: +V, 3: 0 V, 4: Control output	B	E2E-X2ME1-M1	E2E-X2MF1-M1
						NC		D	E2E-X2ME2-M1	E2E-X2MF2-M1
				M8 Connector Models	---	NO	1: +V, 3: 0 V, 4: Control output	F	E2E-X2ME1-M3	E2E-X2MF1-M3
						NC			E2E-X2ME2-M3	E2E-X2MF2-M3
M12	5 mm			Pre-wired Models (2 m)	PVC (oil-resistant)	NO	---	---	E2E-X5ME1 2M ^{*1}	E2E-X5MF1 2M
						NC			E2E-X5ME2 2M	E2E-X5MF2 2M
				M12 Connector Models	---	NO	1: +V, 3: 0 V, 4: Control output	B	E2E-X5ME1-M1	E2E-X5MF1-M1
						NC		D	E2E-X5ME2-M1	E2E-X5MF2-M1
M18	10 mm			Pre-wired Models (2 m)	PVC (oil-resistant)	NO	---	---	E2E-X10ME1 2M ^{*1}	E2E-X10MF1 2M
						NC			E2E-X10ME2 2M	E2E-X10MF2 2M
				M12 Connector Models	---	NO	1: +V, 3: 0 V, 4: Control output	B	E2E-X10ME1-M1	E2E-X10MF1-M1
						NC		D	E2E-X10ME2-M1	E2E-X10MF2-M1
M30	18 mm			Pre-wired Models (2 m)	PVC (oil-resistant)	NO	---	---	E2E-X18ME1 2M ^{*1}	E2E-X18MF1 2M
						NC			E2E-X18ME2 2M	E2E-X18MF2 2M
				M12 Connector Models	---	NO	1: +V, 3: 0 V, 4: Control output	B	E2E-X18ME1-M1	E2E-X18MF1-M1
						NC		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 15 for details.