

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	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	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	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

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 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						
			NO			---	---	E2E-X2D1-US 2M					
			NC			---	---	E2E-X2D2-US 2M					
M12	3 mm		M12 Pre-wired Smart-click Connector Models (0.3 m)			PVC (oil-resistant)	Yes	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				
			NO					---	---	E2E-X3D1-US 2M			
			NC					---	---	E2E-X3D2-US 2M			
M18	7 mm		M12 Pre-wired Smart-click Connector Models (0.3 m)					PVC (oil-resistant)	Yes	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		
			NO							---	---	E2E-X7D1-US 2M	
			NC							---	---	E2E-X7D2-US 2M	
M30	10 mm		M12 Pre-wired Smart-click Connector Models (0.3 m)	PVC (oil-resistant)	Yes					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		
			NO							---	---	E2E-X10D1-US 2M	
			NC							---	---	E2E-X10D2-US 2M	

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

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	Polarity	Operation mode	Pin arrangement	Applicable connector code *2	Model		
M8	4 mm		Pre-wired Models (2 m)	PVC (oil-resistant)	Yes	NO	---	---	E2E-X4MD1 2M		
						NC			E2E-X4MD2 2M		
			M12 Connector Models	---		NO			1: +V, 4: 0 V	A	E2E-X4MD1-M1G
						NC			1: +V, 2: 0 V	D	E2E-X4MD2-M1G
			M8 Connector Models	---		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			
					NC			E2E-X8MD2 2M			
			M12 Connector Models	---	NO	1: +V, 4: 0 V	A	E2E-X8MD1-M1G *1			
					NC	1: +V, 2: 0 V	D	E2E-X8MD2-M1G			
			M12 Standard Pre-wired Connector Models (0.3 m)	PVC (oil-resistant)	NO	1: +V, 4: 0 V	A	E2E-X8MD1-M1GJ 0.3M			
M18	14 mm		M12 Pre-wired Smart-click Connector Models (0.3m)	PVC (oil-resistant)	NO	1: +V, 4: 0 V	E	E2E-X14MD1-M1TGJ 0.3M			
			Pre-wired Models (2 m)	PVC (oil-resistant)	NO	---	---	E2E-X14MD1 2M *1			
					NC			E2E-X14MD2 2M			
			M12 Connector Models	---	NO	1: +V, 4: 0 V	A	E2E-X14MD1-M1G *1			
					NC	1: +V, 2: 0 V	D	E2E-X14MD2-M1G			
			M12 Standard Pre-wired Connector Models (0.3 m)	PVC (oil-resistant)	NO	1: +V, 4: 0 V	A	E2E-X14MD1-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	E2E-X20MD1-M1TGJ 0.3M			
			Pre-wired Models (2 m)	PVC (oil-resistant)	NO	---	---	E2E-X20MD1 2M *1			
					NC			E2E-X20MD2 2M			
			M12 Connector Models	---	NO	1: +V, 4: 0 V	A	E2E-X20MD1-M1G *1			
					NC	1: +V, 2: 0 V	D	E2E-X20MD2-M1G			
			M12 Standard Pre-wired Connector Models (0.3 m)	PVC (oil-resistant)	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. Refer to the catalog (Cat. No. D120) for details.

2-Wire Models

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



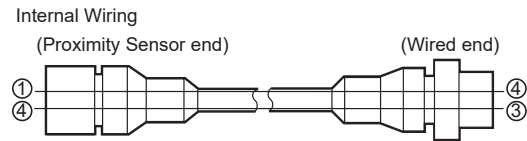
Appearance	Sensing distance		Connection method	Cable specifications	Polarity	Operation mode	Pin arrangement	Applicable connector code *	Model
M8	4 mm		M12 Pre-wired Smart-click Connector Models (0.3 m) Pre-wired Models (2 m)	PVC (oil-resistant)	Yes	NO	1: +V, 4: 0 V	E	E2E-X4MD1-M1TGJ-US 0.3M
						NC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