

Cylindrical Proximity Sensor

E2E/E2E2

A New Series of Easy-to-use and Tough E2E/E2E2 Models

Long-size E2E2 Proximity Sensor Conforms to CENELEC

- Ideal for a variety of applications.
- With a metal connector that can be tightened securely and a cord protector.
- With an easy-to-see indicator, deeper mounting holes, and tightening flats for wrenches.
- The new series of E2E models includes M8 plug-in connector models.

Note: Detailed information is available for the replacement of conventional E2E models with new E2E models. Ask your OMRON representative for a copy of OMRON's E2E/E2E2 Conversion Guide.



Ordering Information

E2E

DC 2-wire/Pre-wired Models

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

- Note:**
1. In addition to the above models, E2E-X□□15 models (e.g., E2E-X3D15-N), which are different in frequency from the above models, are available.
 2. E2E models with a robotics cable are available as well. The model number of a model with a robotics cable has the suffix "-R" (e.g., E2E-X3D1-R).

DC 2-wire/Plug-in Models

Connector	Self-diagnostic output function	Type	Size	Sensing distance	Part number	
					NO	NC
M12	Yes	Shielded	M12	3 mm	E2E-X3D1S-M1	---
			M18	7 mm	E2E-X7D1S-M1	---
			M30	10 mm	E2E-X10D1S-M1	---
		Unshielded	M12	8 mm	E2E-X8MD1S-M1	---
			M18	14 mm	E2E-X14MD1S-M1	---
			M30	20 mm	E2E-X20MD1S-M1	---
	No	Shielded	M8	2 mm	E2E-X2D1-M1G	E2E-X2D2-M1G
			M12	3 mm	E2E-X3D1-M1G (see note)	E2E-X3D2-M1G
			M18	7 mm	E2E-X7D1-M1G (see note)	E2E-X7D2-M1G
			M30	10 mm	E2E-X10D1-M1G (see note)	E2E-X10D2-M1G
		Unshielded	M8	4 mm	E2E-X4MD1-M1G	E2E-X4MD2-M1G
			M12	8 mm	E2E-X8MD1-M1G (see note)	E2E-X8MD2-M1G
			M18	14 mm	E2E-X14MD1-M1G (see note)	E2E-X14MD2-M1G
			M30	20 mm	E2E-X20MD1-M1G (see note)	E2E-X20MD2-M1G
M8	Shielded	M8	2 mm	E2E-X2D1-M3G	E2E-X2D2-M3G	
	Unshielded		4 mm	E2E-X3D1-M3G	E2E-X3D2-M3G	

Note: In addition to the above models, E2E-X□D15□□-M1G models (e.g., E2E-X3D15-M1G), which are different in frequency from the above models, are available

DC 2-wire/Connector Extension Models

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

- Note:**
1. A model with no polarity has a residual voltage of 5 V, which must be taken into consideration together with the interface condition (the PC's ON voltage, for example) when connecting the Proximity Sensor to a load.
 2. The standard cord length is 30 cm. 50-cm and 1-m models are also available.

Connector Pin Assignments of DC 2-wire Model

The connector pin assignments of each new E2E DC 2-wire conforms to IEC947-5-2 Table III.

The following E2E models with conventional connector pin assignments are available as well.

Type	Size	Output configuration	Part number	Sensing head		Output configuration	Part number
Shielded	M8	NO	E2E-X2D1-M1	Unshielded	M8	NO	E2E-X4MD1-M1
		NC	E2E-X2D2-M1			NC	E2E-X4MD2-M1
	M12	NO	E2E-X3D1-M1		M12	NO	E2E-X8MD1-M1
		NC	E2E-X3D2-M1			NC	E2E-X8MD2-M1
	M18	NO	E2E-X7D1-M1		M18	NO	E2E-X14MD1-M1
		NC	E2E-X7D2-M1			NC	E2E-X14MD2-M1
	M30	NO	E2E-X10D1-M1		M30	NO	E2E-X20MD1-M1
		NC	E2E-X10D2-M1			NC	E2E-X20MD2-M1