

Welding Proximity Sensor E2EW Series

DC 2-wire/DC 3-wire



Stable detection in lines containing both aluminum and iron

- Equivalent sensing distances for both iron and aluminum ^{*1}
- Enables common design for lines with both iron and aluminum ^{*1}
- Approximately double the sensing distance of previous model ^{*2}, which means fewer false detections and thereby fewer unexpected stoppages.
- OMRON's unique fluororesin coating technologies enable long-lasting spatter resistance ^{*4}, eliminates the need to replace for 10 years ^{*3}.
- Durable full metal body to reduce unexpected stoppages
- 2-output (NO+NC) models and models with IO-Link ^{*1} are also available.
- Laser printed information (sensing distance on the sensor head, model on the cable, and model on the metal part of the connector model) can be reducing errors during sensor replacement. ^{*5}
- Equipped with a function, which effectively cancels pulse noise of current magnetic field. ^{*1}
- UL certification (UL60947-5-2) and
CSA certification (CSA C22.2 UL60947-5-2-14)



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



Be sure to read *Safety Precautions* on page 35.

^{*1}. PREMIUM Models only.

^{*2}. Comparison with our previous model E2EF.

^{*3}. This value assumes that the sensor operates 10 hours a day in an arc welding environment and is cleaned once a month (12 times a year). If our previous model (E2EF-Q) needs to be replaced once every 3 times it is cleaned, the E2EW-Q Proximity Sensor needs to be replaced once every 180 times it is cleaned. This means that there is no need to replace the E2EW-Q Proximity Sensor for 10 or more years.

^{*4}. Models with spatter-resistant coating only.

^{*5}. Models without spatter-resistant coating only.

E2EW Series Model Number Legend

E2EW - (1) X (2) (3) (4) (5) (6) - (7) - (8) (9)

No.	Type	Code	Meaning	Remarks
(1)	Case	Blank	Without spatter-resistant coating	
		Q	With spatter-resistant coating	
(2)	Sensing distance	Number	Sensing distance (Unit: mm) (R: Indication of decimal point)	
(3)	Output configuration	B	DC 3-wire PNP open collector	Whether the D model has polarity is defined by number (8).
		C	DC 3-wire NPN open collector	
		D	DC 2-wire polarity/no polarity	
(4)	Operation mode	1	Normally open (NO)	
		2	Normally closed (NC)	
		3	Normally open, Normally closed (NO+NC)	
(5)	IO-Link baud rate	Blank	Non IO-Link compliant	
		D	COM2 (38.4kbps)	
		T	COM3 (230.4kbps)	
(6)	Size	8	M8	
		12	M12	
		18	M18	
		30	M30	
(7)	Connection method	Blank	Pre-wired Models	
		M1	M12 Connector Models	
		M1TGJ	M12 Pre-wired Smartclick Connector Models DC 2-wire	
		M1TJ	M12 Pre-wired Smartclick Connector Models DC 3-wire	
(8)	DC 2-wire polarity	Blank	Polarity	
		T	No polarity	
(9)	Cable length	Number M	Cable length	

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.

E2EW Series

Ordering Information

PREMIUM Model

E2EW Series (Quadruple distance model)

DC 3-wire [Refer to *Ratings and Specifications* on page 24, *Dimensions* on page 38.]

Size (Sensing distance)	Connection method	Operation mode	Model	
			PNP	NPN
M12 (7 mm)	Pre-wired (2 m) *1	NO	E2EW-X7B1T12 2M	E2EW-X7C112 2M
		NC	E2EW-X7B212 2M	E2EW-X7C212 2M
		NO+NC	E2EW-X7B3T12 2M	E2EW-X7C312 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	NO	E2EW-X7B1T12-M1TJ 0.3M	E2EW-X7C112-M1TJ 0.3M
		NC	E2EW-X7B212-M1TJ 0.3M	E2EW-X7C212-M1TJ 0.3M
		NO+NC	E2EW-X7B3T12-M1TJ 0.3M	E2EW-X7C312-M1TJ 0.3M
	M12 Connector	NO	E2EW-X7B1T12-M1	E2EW-X7C112-M1
		NC	E2EW-X7B212-M1	E2EW-X7C212-M1
		NO+NC	E2EW-X7B3T12-M1	E2EW-X7C312-M1
M18 (12 mm)	Pre-wired (2 m) *1	NO	E2EW-X12B1T18 2M	E2EW-X12C118 2M
		NC	E2EW-X12B218 2M	E2EW-X12C218 2M
		NO+NC	E2EW-X12B3T18 2M	E2EW-X12C318 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	NO	E2EW-X12B1T18-M1TJ 0.3M	E2EW-X12C118-M1TJ 0.3M
		NC	E2EW-X12B218-M1TJ 0.3M	E2EW-X12C218-M1TJ 0.3M
		NO+NC	E2EW-X12B3T18-M1TJ 0.3M	E2EW-X12C318-M1TJ 0.3M
	M12 Connector	NO	E2EW-X12B1T18-M1	E2EW-X12C118-M1
		NC	E2EW-X12B218-M1	E2EW-X12C218-M1
		NO+NC	E2EW-X12B3T18-M1	E2EW-X12C318-M1
M30 (22 mm)	Pre-wired (2 m) *1	NO	E2EW-X22B1T30 2M	E2EW-X22C130 2M
		NC	E2EW-X22B230 2M	E2EW-X22C230 2M
		NO+NC	E2EW-X22B3T30 2M	E2EW-X22C330 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	NO	E2EW-X22B1T30-M1TJ 0.3M	E2EW-X22C130-M1TJ 0.3M
		NC	E2EW-X22B230-M1TJ 0.3M	E2EW-X22C230-M1TJ 0.3M
		NO+NC	E2EW-X22B3T30-M1TJ 0.3M	E2EW-X22C330-M1TJ 0.3M
	M12 Connector	NO	E2EW-X22B1T30-M1	E2EW-X22C130-M1
		NC	E2EW-X22B230-M1	E2EW-X22C230-M1
		NO+NC	E2EW-X22B3T30-M1	E2EW-X22C330-M1

*1. Models with 5-m cable length are also available with "5M" suffix. (Example: E2EW-X7B1T12 5M)

Note: 1. When embedding the Proximity Sensor in metal, refer to *Influence of Surrounding Metal* on page 36.

2. Models in are equipped with IO-Link (COM3). For IO-Link (COM2), select a model number with the format of "E2EW-X□□□D□" (Example: E2EW-X7B1D12 2M).

Operation mode NO can be changed to NC via IO-Link communications.

3. IO-Link is not supported for NC-type PNP outputs or all types of NPN outputs.

PREMIUM Model

E2EW Series (Triple distance model)

DC 3-wire [Refer to *Ratings and Specifications* on page 24, *Dimensions* on page 38.]

Size (Sensing distance)	Connection method	Operation mode	Model	
			PNP	NPN
M12 (6 mm)	Pre-wired (2 m) *1	NO	E2EW-X6B1T12 2M	E2EW-X6C112 2M
		NC	E2EW-X6B212 2M	E2EW-X6C212 2M
		NO+NC	E2EW-X6B3T12 2M	E2EW-X6C312 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	NO	E2EW-X6B1T12-M1TJ 0.3M	E2EW-X6C112-M1TJ 0.3M
		NC	E2EW-X6B212-M1TJ 0.3M	E2EW-X6C212-M1TJ 0.3M
		NO+NC	E2EW-X6B3T12-M1TJ 0.3M	E2EW-X6C312-M1TJ 0.3M
	M12 Connector	NO	E2EW-X6B1T12-M1	E2EW-X6C112-M1
		NC	E2EW-X6B212-M1	E2EW-X6C212-M1
		NO+NC	E2EW-X6B3T12-M1	E2EW-X6C312-M1
M18 (10 mm)	Pre-wired (2 m) *1	NO	E2EW-X10B1T18 2M	E2EW-X10C118 2M
		NC	E2EW-X10B218 2M	E2EW-X10C218 2M
		NO+NC	E2EW-X10B3T18 2M	E2EW-X10C318 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	NO	E2EW-X10B1T18-M1TJ 0.3M	E2EW-X10C118-M1TJ 0.3M
		NC	E2EW-X10B218-M1TJ 0.3M	E2EW-X10C218-M1TJ 0.3M
		NO+NC	E2EW-X10B3T18-M1TJ 0.3M	E2EW-X10C318-M1TJ 0.3M
	M12 Connector	NO	E2EW-X10B1T18-M1	E2EW-X10C118-M1
		NC	E2EW-X10B218-M1	E2EW-X10C218-M1
		NO+NC	E2EW-X10B3T18-M1	E2EW-X10C318-M1
M30 (20 mm)	Pre-wired (2 m) *1	NO	E2EW-X20B1T30 2M	E2EW-X20C130 2M
		NC	E2EW-X20B230 2M	E2EW-X20C230 2M
		NO+NC	E2EW-X20B3T30 2M	E2EW-X20C330 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	NO	E2EW-X20B1T30-M1TJ 0.3M	E2EW-X20C130-M1TJ 0.3M
		NC	E2EW-X20B230-M1TJ 0.3M	E2EW-X20C230-M1TJ 0.3M
		NO+NC	E2EW-X20B3T30-M1TJ 0.3M	E2EW-X20C330-M1TJ 0.3M
	M12 Connector	NO	E2EW-X20B1T30-M1	E2EW-X20C130-M1
		NC	E2EW-X20B230-M1	E2EW-X20C230-M1
		NO+NC	E2EW-X20B3T30-M1	E2EW-X20C330-M1

*1. Models with 5-m cable length are also available with "5M" suffix. (Example: E2EW-X6B1T12 5M)

Note: 1. When embedding the Proximity Sensor in metal, refer to *Influence of Surrounding Metal* on page 36.2. Models in are equipped with IO-Link (COM3). For IO-Link (COM2), select a model number with the format of "E2EW-X " (Example: E2EW-X6B1D12 2M).
Operation mode NO can be changed to NC via IO-Link communications.

3. IO-Link is not supported for NC-type PNP outputs or all types of NPN outputs.

PREMIUM Model

E2EW-Q Series (Spatter-resistant Quadruple distance model)

DC 3-wire [Refer to Ratings and Specifications on page 24, Dimensions on page 38.]

Size (Sensing distance)	Connection method	Operation mode	Model	
			PNP	NPN
M12 (7 mm)	Pre-wired (2 m) *1	NO	E2EW-QX7B1T12 2M	E2EW-QX7C112 2M
		NC	E2EW-QX7B212 2M	E2EW-QX7C212 2M
		NO+NC	E2EW-QX7B3T12 2M	E2EW-QX7C312 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	NO	E2EW-QX7B1T12-M1TJ 0.3M	E2EW-QX7C112-M1TJ 0.3M
		NC	E2EW-QX7B212-M1TJ 0.3M	E2EW-QX7C212-M1TJ 0.3M
		NO+NC	E2EW-QX7B3T12-M1TJ 0.3M	E2EW-QX7C312-M1TJ 0.3M
	M12 Connector	NO	E2EW-QX7B1T12-M1	E2EW-QX7C112-M1
		NC	E2EW-QX7B212-M1	E2EW-QX7C212-M1
		NO+NC	E2EW-QX7B3T12-M1	E2EW-QX7C312-M1
M18 (12 mm)	Pre-wired (2 m) *1	NO	E2EW-QX12B1T18 2M	E2EW-QX12C118 2M
		NC	E2EW-QX12B218 2M	E2EW-QX12C218 2M
		NO+NC	E2EW-QX12B3T18 2M	E2EW-QX12C318 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	NO	E2EW-QX12B1T18-M1TJ 0.3M	E2EW-QX12C118-M1TJ 0.3M
		NC	E2EW-QX12B218-M1TJ 0.3M	E2EW-QX12C218-M1TJ 0.3M
		NO+NC	E2EW-QX12B3T18-M1TJ 0.3M	E2EW-QX12C318-M1TJ 0.3M
	M12 Connector	NO	E2EW-QX12B1T18-M1	E2EW-QX12C118-M1
		NC	E2EW-QX12B218-M1	E2EW-QX12C218-M1
		NO+NC	E2EW-QX12B3T18-M1	E2EW-QX12C318-M1
M30 (22 mm)	Pre-wired (2 m) *1	NO	E2EW-QX22B1T30 2M	E2EW-QX22C130 2M
		NC	E2EW-QX22B230 2M	E2EW-QX22C230 2M
		NO+NC	E2EW-QX22B3T30 2M	E2EW-QX22C330 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	NO	E2EW-QX22B1T30-M1TJ 0.3M	E2EW-QX22C130-M1TJ 0.3M
		NC	E2EW-QX22B230-M1TJ 0.3M	E2EW-QX22C230-M1TJ 0.3M
		NO+NC	E2EW-QX22B3T30-M1TJ 0.3M	E2EW-QX22C330-M1TJ 0.3M
	M12 Connector	NO	E2EW-QX22B1T30-M1	E2EW-QX22C130-M1
		NC	E2EW-QX22B230-M1	E2EW-QX22C230-M1
		NO+NC	E2EW-QX22B3T30-M1	E2EW-QX22C330-M1

*1. Models with 5-m cable length are also available with "5M" suffix. (Example: E2EW-QX7B1T12 5M)

Note: 1. When embedding the Proximity Sensor in metal, refer to *Influence of Surrounding Metal* on page 36.

2. Models in are equipped with IO-Link (COM3). For IO-Link (COM2), select a model number with the format of "E2EW-QX " (Example: E2EW-QX7B1D12 2M).

Operation mode NO can be changed to NC via IO-Link communications.

3. IO-Link is not supported for NC-type PNP outputs or all types of NPN outputs.

PREMIUM Model

E2EW-Q Series (Spatter-resistant Triple distance model)DC 3-wire [Refer to *Ratings and Specifications* on page 24, *Dimensions* on page 38.]

Size (Sensing distance)	Connection method	Operation mode	Model	
			PNP	NPN
M12 (6 mm)	Pre-wired (2 m) *1	NO	E2EW-QX6B1T12 2M	E2EW-QX6C112 2M
		NC	E2EW-QX6B212 2M	E2EW-QX6C212 2M
		NO+NC	E2EW-QX6B3T12 2M	E2EW-QX6C312 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	NO	E2EW-QX6B1T12-M1TJ 0.3M	E2EW-QX6C112-M1TJ 0.3M
		NC	E2EW-QX6B212-M1TJ 0.3M	E2EW-QX6C212-M1TJ 0.3M
		NO+NC	E2EW-QX6B3T12-M1TJ 0.3M	E2EW-QX6C312-M1TJ 0.3M
	M12 Connector	NO	E2EW-QX6B1T12-M1	E2EW-QX6C112-M1
		NC	E2EW-QX6B212-M1	E2EW-QX6C212-M1
		NO+NC	E2EW-QX6B3T12-M1	E2EW-QX6C312-M1
M18 (10 mm)	Pre-wired (2 m) *1	NO	E2EW-QX10B1T18 2M	E2EW-QX10C118 2M
		NC	E2EW-QX10B218 2M	E2EW-QX10C218 2M
		NO+NC	E2EW-QX10B3T18 2M	E2EW-QX10C318 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	NO	E2EW-QX10B1T18-M1TJ 0.3M	E2EW-QX10C118-M1TJ 0.3M
		NC	E2EW-QX10B218-M1TJ 0.3M	E2EW-QX10C218-M1TJ 0.3M
		NO+NC	E2EW-QX10B3T18-M1TJ 0.3M	E2EW-QX10C318-M1TJ 0.3M
	M12 Connector	NO	E2EW-QX10B1T18-M1	E2EW-QX10C118-M1
		NC	E2EW-QX10B218-M1	E2EW-QX10C218-M1
		NO+NC	E2EW-QX10B3T18-M1	E2EW-QX10C318-M1
M30 (20 mm)	Pre-wired (2 m) *1	NO	E2EW-QX20B1T30 2M	E2EW-QX20C130 2M
		NC	E2EW-QX20B230 2M	E2EW-QX20C230 2M
		NO+NC	E2EW-QX20B3T30 2M	E2EW-QX20C330 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	NO	E2EW-QX20B1T30-M1TJ 0.3M	E2EW-QX20C130-M1TJ 0.3M
		NC	E2EW-QX20B230-M1TJ 0.3M	E2EW-QX20C230-M1TJ 0.3M
		NO+NC	E2EW-QX20B3T30-M1TJ 0.3M	E2EW-QX20C330-M1TJ 0.3M
	M12 Connector	NO	E2EW-QX20B1T30-M1	E2EW-QX20C130-M1
		NC	E2EW-QX20B230-M1	E2EW-QX20C230-M1
		NO+NC	E2EW-QX20B3T30-M1	E2EW-QX20C330-M1

*1. Models with 5-m cable length are also available with "5M" suffix. (Example: E2EW-QX6B1T12 5M)

Note: 1. When embedding the Proximity Sensor in metal, refer to *Influence of Surrounding Metal* on page 36.2. Models in are equipped with IO-Link (COM3). For IO-Link (COM2), select a model number with the format of "E2EW-QX " (Example: E2EW-QX6B1D12 2M).
Operation mode NO can be changed to NC via IO-Link communications.

3. IO-Link is not supported for NC-type PNP outputs or all types of NPN outputs.

E2EW Series

BASIC Model

E2EW Series (Double distance model)

DC 3-wire [Refer to *atings and Specifications* on page 25, *Dimensions* on page 39.]

Size (Sensing distance)	Connection method	Operation mode *2	Model	
			PNP	NPN
M12 (3 mm)	Pre-wired (2 m) *1	NO	E2EW-X3B112 2M	E2EW-X3C112 2M
		NO+NC	E2EW-X3B312 2M	E2EW-X3C312 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	NO	E2EW-X3B112-M1TJ 0.3M	E2EW-X3C112-M1TJ 0.3M
		NO+NC	E2EW-X3B312-M1TJ 0.3M	E2EW-X3C312-M1TJ 0.3M
M18 (7 mm)	Pre-wired (2 m) *1	NO	E2EW-X7B118 2M	E2EW-X7C118 2M
		NO+NC	E2EW-X7B318 2M	E2EW-X7C318 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	NO	E2EW-X7B118-M1TJ 0.3M	E2EW-X7C118-M1TJ 0.3M
		NO+NC	E2EW-X7B318-M1TJ 0.3M	E2EW-X7C318-M1TJ 0.3M
M30 (12 mm)	Pre-wired (2 m) *1	NO	E2EW-X12B130 2M	E2EW-X12C130 2M
		NO+NC	E2EW-X12B330 2M	E2EW-X12C330 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	NO	E2EW-X12B130-M1TJ 0.3M	E2EW-X12C130-M1TJ 0.3M
		NO+NC	E2EW-X12B330-M1TJ 0.3M	E2EW-X12C330-M1TJ 0.3M

BASIC Model

E2EW Series (Single distance model)

DC 3-wire [Refer to *atings and Specifications* on page 25, *Dimensions* on page 39, 40.]

Size (Sensing distance)	Connection method	Operation mode *2	Model	
			PNP	NPN
M8 (1.5 mm)	Pre-wired (2 m)	NO	E2EW-X1R5B18 2M	E2EW-X1R5C18 2M
	M12 Connector	NO	E2EW-X1R5B18-M1	E2EW-X1R5C18-M1
M12 (2 mm)	Pre-wired (2 m) *1	NO	E2EW-X2B112 2M	E2EW-X2C112 2M
		NO+NC	E2EW-X2B312 2M	E2EW-X2C312 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	NO	E2EW-X2B112-M1TJ 0.3M	E2EW-X2C112-M1TJ 0.3M
		NO+NC	E2EW-X2B312-M1TJ 0.3M	E2EW-X2C312-M1TJ 0.3M
	M12 Connector	NO	E2EW-X2B112-M1	E2EW-X2C112-M1
		NC	E2EW-X2B212-M1	E2EW-X2C212-M1
M18 (5 mm)	Pre-wired (2 m) *1	NO	E2EW-X5B118 2M	E2EW-X5C118 2M
		NO+NC	E2EW-X5B318 2M	E2EW-X5C318 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	NO	E2EW-X5B118-M1TJ 0.3M	E2EW-X5C118-M1TJ 0.3M
		NO+NC	E2EW-X5B318-M1TJ 0.3M	E2EW-X5C318-M1TJ 0.3M
	M12 Connector	NO	E2EW-X5B118-M1	E2EW-X5C118-M1
		NC	E2EW-X5B218-M1	E2EW-X5C218-M1
M30 (10 mm)	Pre-wired (2 m) *1	NO	E2EW-X10B130 2M	E2EW-X10C130 2M
		NO+NC	E2EW-X10B330 2M	E2EW-X10C330 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	NO	E2EW-X10B130-M1TJ 0.3M	E2EW-X10C130-M1TJ 0.3M
		NO+NC	E2EW-X10B330-M1TJ 0.3M	E2EW-X10C330-M1TJ 0.3M
	M12 Connector	NO	E2EW-X10B130-M1	E2EW-X10C130-M1
		NC	E2EW-X10B230-M1	E2EW-X10C230-M1

*1. Models with 5-m cable length are also available with "5M" suffix. (Example: E2EW-X3B112 5M)

*2. Operation model NC are also available with "E2EW-X□□2□□". (Example: E2EW-X3B212 2M)
The NC type is not available for M12 Connector model in M8 size sensors.

Note: 1. When embedding the Proximity Sensor in metal, refer to *Influence of Surrounding Metal* on page 36.

2. IO-Link is not supported for all types of BASIC Model.

BASIC Model

E2EW-Q Series (Spatter-resistant Double distance model)

DC 3-wire [Refer to *Ratings and Specifications* on page 25, *Dimensions* on page 39.]

Size (Sensing distance)	Connection method	Operation mode *2	Model	
			PNP	NPN
M12 (3 mm)	Pre-wired (2 m) *1	NO	E2EW-QX3B112 2M	E2EW-QX3C112 2M
		NO+NC	E2EW-QX3B312 2M	E2EW-QX3C312 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	NO	E2EW-QX3B112-M1TJ 0.3M	E2EW-QX3C112-M1TJ 0.3M
		NO+NC	E2EW-QX3B312-M1TJ 0.3M	E2EW-QX3C312-M1TJ 0.3M
M18 (7 mm)	Pre-wired (2 m) *1	NO	E2EW-QX7B118 2M	E2EW-QX7C118 2M
		NO+NC	E2EW-QX7B318 2M	E2EW-QX7C318 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	NO	E2EW-QX7B118-M1TJ 0.3M	E2EW-QX7C118-M1TJ 0.3M
		NO+NC	E2EW-QX7B318-M1TJ 0.3M	E2EW-QX7C318-M1TJ 0.3M
M30 (12 mm)	Pre-wired (2 m) *1	NO	E2EW-QX12B130 2M	E2EW-QX12C130 2M
		NO+NC	E2EW-QX12B330 2M	E2EW-QX12C330 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	NO	E2EW-QX12B130-M1TJ 0.3M	E2EW-QX12C130-M1TJ 0.3M
		NO+NC	E2EW-QX12B330-M1TJ 0.3M	E2EW-QX12C330-M1TJ 0.3M

BASIC Model

E2EW-Q Series (Spatter-resistant Single distance model)

DC 3-wire [Refer to *Ratings and Specifications* on page 25, *Dimensions* on page 39, 40.]

Size (Sensing distance)	Connection method	Operation mode *2	Model	
			PNP	NPN
M8 (1.5 mm)	M12 Connector	NO	E2EW-QX1R5B18-M1	---
M12 (2 mm)	Pre-wired (2 m) *1	NO	E2EW-QX2B112 2M	E2EW-QX2C112 2M
		NO+NC	E2EW-QX2B312 2M	E2EW-QX2C312 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	NO	E2EW-QX2B112-M1TJ 0.3M	E2EW-QX2C112-M1TJ 0.3M
		NO+NC	E2EW-QX2B312-M1TJ 0.3M	E2EW-QX2C312-M1TJ 0.3M
M18 (5 mm)	Pre-wired (2 m) *1	NO	E2EW-QX5B118 2M	E2EW-QX5C118 2M
		NO+NC	E2EW-QX5B318 2M	E2EW-QX5C318 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	NO	E2EW-QX5B118-M1TJ 0.3M	E2EW-QX5C118-M1TJ 0.3M
		NO+NC	E2EW-QX5B318-M1TJ 0.3M	E2EW-QX5C318-M1TJ 0.3M
M30 (10 mm)	Pre-wired (2 m) *1	NO	E2EW-QX10B130 2M	E2EW-QX10C130 2M
		NO+NC	E2EW-QX10B330 2M	E2EW-QX10C330 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	NO	E2EW-QX10B130-M1TJ 0.3M	E2EW-QX10C130-M1TJ 0.3M
		NO+NC	E2EW-QX10B330-M1TJ 0.3M	E2EW-QX10C330-M1TJ 0.3M

*1. Models with 5-m cable length are also available with "5M" suffix. (Example: E2EW-QX3B112 5M)

*2. Operation model NC are also available with "E2EW-QX□□2□□". (Example: E2EW-QX3B212 2M)
The NC type are not available for M8 size sensors.

Note: 1. When embedding the Proximity Sensor in metal, refer to *Influence of Surrounding Metal* on page 36.
2. IO-Link is not supported for all types of BASIC Model.

E2EW Series

BASIC Model

E2EW Series (Double distance model)

DC 2-wire [Refer to *Ratings and Specifications* on page 26, *Dimensions* on page 39.]

Size (Sensing distance)	Connection method	Polarity	Model	
			Operation mode: NO	Operation mode: NC
M8 (2 mm)	Pre-wired (2 m)	Yes	E2EW-X2D18 2M *1	---
		No	E2EW-X2D18-T 2M	---
	M12 Pre-wired Smartclick Connector (0.3 m)	Yes	E2EW-X2D18-M1TGJ 0.3M	---
		No	E2EW-X2D18-M1TGJ-T 0.3M	---
M12 (3 mm)	Pre-wired (2 m) *1	Yes	E2EW-X3D112 2M	E2EW-X3D212 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	Yes	E2EW-X3D112-M1TGJ 0.3M	---
		No	E2EW-X3D112-M1TGJ-T 0.3M	---
M18 (7 mm)	Pre-wired (2 m) *1	Yes	E2EW-X7D118 2M	E2EW-X7D218 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	Yes	E2EW-X7D118-M1TGJ 0.3M	---
		No	E2EW-X7D118-M1TGJ-T 0.3M	---
M30 (12 mm)	Pre-wired (2 m) *1	Yes	E2EW-X12D130 2M	E2EW-X12D230 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	Yes	E2EW-X12D130-M1TGJ 0.3M	---
		No	E2EW-X12D130-M1TGJ-T 0.3M	---

BASIC Model

E2EW Series (Single distance model)

DC 2-wire [Refer to *Ratings and Specifications* on page 26, *Dimensions* on page 39.]

Size (Sensing distance)	Connection method	Polarity	Model	
			Operation mode: NO	Operation mode: NC
M8 (1.5 mm)	Pre-wired (2 m)	Yes	E2EW-X1R5D18 2M *1	E2EW-X1R5D28 2M
		No	E2EW-X1R5D18-T 2M	---
	M12 Pre-wired Smartclick Connector (0.3 m)	Yes	E2EW-X1R5D18-M1TGJ 0.3M	---
		No	E2EW-X1R5D18-M1TGJ-T 0.3M	---
M12 (2 mm)	Pre-wired (2 m) *1	Yes	E2EW-X2D112 2M	E2EW-X2D212 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	Yes	E2EW-X2D112-M1TGJ 0.3M	---
		No	E2EW-X2D112-M1TGJ-T 0.3M	---
M18 (5 mm)	Pre-wired (2 m) *1	Yes	E2EW-X5D118 2M	E2EW-X5D218 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	Yes	E2EW-X5D118-M1TGJ 0.3M	---
		No	E2EW-X5D118-M1TGJ-T 0.3M	---
M30 (10 mm)	Pre-wired (2 m) *1	Yes	E2EW-X10D130 2M	E2EW-X10D230 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	Yes	E2EW-X10D130-M1TGJ 0.3M	---
		No	E2EW-X10D130-M1TGJ-T 0.3M	---

*1. Models with 5-m cable length are also available with "5M" suffix. (Example: E2EW-X3D112 5M)

Note: 1. When embedding the Proximity Sensor in metal, refer to *Influence of Surrounding Metal* on page 36.
2. IO-Link is not supported for BASIC Model.

BASIC Model

E2EW-Q Series (Spatter-resistant Double distance model)DC 2-wire [Refer to *Ratings and Specifications* on page 26, *Dimensions* on page 39.]

Size (Sensing distance)	Connection method	Polarity	Model	
			Operation mode: NO	Operation mode: NC
M8 (2 mm)	Pre-wired (2 m)	Yes	E2EW-QX2D18 2M *1	---
	M12 Pre-wired Smartclick Connector (0.3 m)	Yes	E2EW-QX2D18-M1TGJ 0.3M	---
M12 (3 mm)	Pre-wired (2 m)	Yes	E2EW-QX3D112 2M *1	E2EW-QX3D212 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	Yes	E2EW-QX3D112-M1TGJ 0.3M	---
		No	E2EW-QX3D112-M1TGJ-T 0.3M	---
M18 (7 mm)	Pre-wired (2 m)	Yes	E2EW-QX7D118 2M *1	E2EW-QX7D218 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	Yes	E2EW-QX7D118-M1TGJ 0.3M	---
		No	E2EW-QX7D118-M1TGJ-T 0.3M	---
M30 (12 mm)	Pre-wired (2 m)	Yes	E2EW-QX12D130 2M *1	E2EW-QX12D230 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	Yes	E2EW-QX12D130-M1TGJ 0.3M	---
		No	E2EW-QX12D130-M1TGJ-T 0.3M	---

BASIC Model

E2EW-Q Series (Spatter-resistant Single distance model)DC 2-wire [Refer to *Ratings and Specifications* on page 26, *Dimensions* on page 39.]

Size (Sensing distance)	Connection method	Polarity	Model	
			Operation mode: NO	Operation mode: NC
M8 (1.5 mm)	Pre-wired (2 m)	Yes	E2EW-QX1R5D18 2M *1	---
	M12 Pre-wired Smartclick Connector (0.3 m)	Yes	E2EW-QX1R5D18-M1TGJ 0.3M	---
		No	E2EW-QX1R5D18-M1TGJ-T 0.3M	---
M12 (2 mm)	Pre-wired (2 m)	Yes	E2EW-QX2D112 2M *1	E2EW-QX2D212 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	Yes	E2EW-QX2D112-M1TGJ 0.3M	---
		No	E2EW-QX2D112-M1TGJ-T 0.3M	---
M18 (5 mm)	Pre-wired (2 m)	Yes	E2EW-QX5D118 2M *1	E2EW-QX5D218 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	Yes	E2EW-QX5D118-M1TGJ 0.3M	---
		No	E2EW-QX5D118-M1TGJ-T 0.3M	---
M30 (10 mm)	Pre-wired (2 m)	Yes	E2EW-QX10D130 2M *1	E2EW-QX10D230 2M
	M12 Pre-wired Smartclick Connector (0.3 m)	Yes	E2EW-QX10D130-M1TGJ 0.3M	---
		No	E2EW-QX10D130-M1TGJ-T 0.3M	---

*1. Models with 5-m cable length are also available with "5M" suffix. (Example: E2EW-QX3D112 5M)

Note: 1. When embedding the Proximity Sensor in metal, refer to *Influence of Surrounding Metal* on page 36.

2. IO-Link is not supported for BASIC Model.