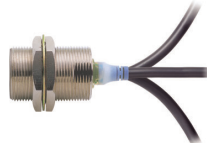


Your Search for Proximity Sensors Starts with the World-leading Performance and Quality of the E2E

- 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 oil-resistant PVC and sensing surface made of material that resists cutting oil.
- Useful to help prevent disconnection. Cable protector provided as a standard feature.



(Standards do not apply to all models.)



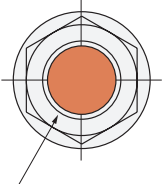
For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Be sure to read *Safety Precautions* on page 25.

Features

2-Wire Models

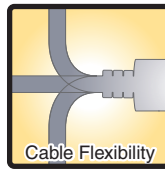
Pre-wired Models with Oil-resistant Reinforced PUR Cables Added to the Lineup and Easy Differentiation with Orange Head



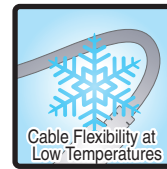
Differentiation from standard models: Orange Head



Oil Resistance (Insulation service life): twice or three times that of oil-resistant vinyl chloride

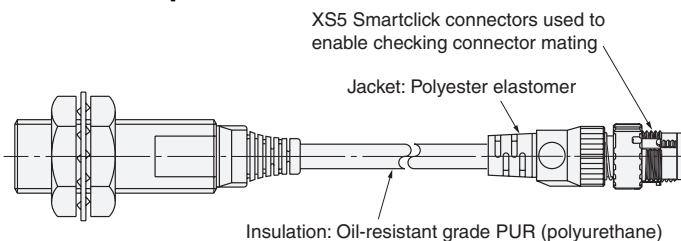
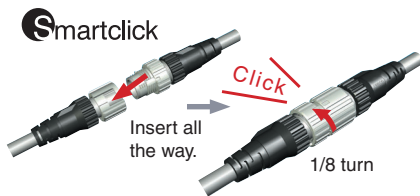


Cable Flexibility: approximately twice that of vinyl chloride cables



More Flexibility at -40°C

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



UL-recognized Models Available



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	X	Cylindrical (threaded)	
②	Sensing distance	Number	Sensing distance (Unit: mm)	Example: 1R5: 1.5 mm
		R	Indication of decimal point	
③	Shielding	Blank	Shielded Model	
		M	Unshielded Model	
④	Power supply and output specifications	B	DC 3-wire PNP open-collector output	Whether D models have polarity is defined by number ⑩.
		C	DC 3-wire NPN open-collector output	
		D	DC 2-wire polarity/no polarity	
		E	DC 3-wire NPN collector load built-in output	
		F	DC 3-wire PNP collector load built-in output	
		T	AC/DC 2-wire	
		Y	AC 2-wire	
⑤	Form of output switching element	1	Normally open (NO)	
		2	Normally closed (NC)	
⑥	Oscillation frequency type	Blank	Standard frequency	Used to prevent mutual interference.
		5	Different frequency	
⑦	Self-diagnosis	Blank	No	
		5	Yes	
⑧	Connection method	Blank	Pre-wired	
		M1	M12-size metal connector	
		M3	M8-size metal connector	
⑨	Connector specifications	Blank	Connector Model DC 3-wire and AC 2-wire, DC 2-wire with self-diagnosis output, DC 2-wire with old pin arrangement	
		G	Connector Model DC 2-wire with IEC pin arrangement	
		J	Pre-wired Connector Model DC 3-wire and AC 2-wire, DC 2-wire with old pin arrangement	
		GJ	Pre-wired Connector Model DC 2-wire with IEC pin arrangement	
		TJ	Pre-wired Smartclick Connector Model DC 2-wire	
		TGJ	Pre-wired Smartclick Connector Model DC 2-wire with IEC pin arrangement	
⑩	DC 2-wire polarity	Blank	Polarity	
		T	No polarity	
⑪	Cable specifications	Blank	Standard PVC cable (oil resistant)	
		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 ⑪ is R or U.
	Standard-certified model	US	UL-recognized model	
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.

2-Wire Models

AC 2-Wire Models Shielded Models [Refer to Dimensions on page 27.]



Appearance	Sensing distance		Connection method	Cable specifications	Operation mode	Pin arrangement	Applicable connector code *2	Model
M8	1.5 mm		Pre-wired Models (2 m)	PVC (oil-resistant)	NO	---	---	E2E-X1R5Y1 2M
					NC			E2E-X1R5Y2 2M
M12	2 mm		Pre-wired Models (2 m)	PVC (oil-resistant)	NO	---	---	E2E-X2Y1 2M *1
					NC			E2E-X2Y2 2M
			M12 Connector Models	---	NO	(3, 4): (AC, AC)	E	E2E-X2Y1-M1
					NC	(1, 2): (AC, AC)	F	E2E-X2Y2-M1
M18	5 mm		Pre-wired Models (2 m)	PVC (oil-resistant)	NO	---	---	E2E-X5Y1 2M *1
					NC			E2E-X5Y2 2M
			M12 Connector Models	---	NO	(3, 4): (AC, AC)	E	E2E-X5Y1-M1
					NC	(1, 2): (AC, AC)	F	E2E-X5Y2-M1
M30	10 mm		Pre-wired Models (2 m)	PVC (oil-resistant)	NO	---	---	E2E-X10Y1 2M *1
					NC			E2E-X10Y2 2M
			M12 Connector Models	---	NO	(3, 4): (AC, AC)	E	E2E-X10Y1-M1
					NC	(1, 2): (AC, AC)	F	E2E-X10Y2-M1

*1. Models with different frequencies are also available. The model number is E2E-X □□□5 (example: E2E-X5Y15 2M).

*2. Refer to page 22 for details.

Unshielded Models



Appearance	Sensing distance		Connection method	Cable specifications	Operation mode	Pin arrangement	Applicable connector code *2	Model
M8	2 mm		Pre-wired Models (2 m)	PVC (oil-resistant)	NO	---	---	E2E-X2MY1 2M
					NC			E2E-X2MY2 2M
M12	5 mm		Pre-wired Models (2 m)	PVC (oil-resistant)	NO	---	---	E2E-X5MY1 2M *1
					NC			E2E-X5MY2 2M
			M12 Connector Models	---	NO	(3, 4): (AC, AC)	E	E2E-X5MY1 2M
					NC	(1, 2): (AC, AC)	F	E2E-X5MY2-M1
M18	10 mm		Pre-wired Models (2 m)	PVC (oil-resistant)	NO	---	---	E2E-X10MY1 2M *1
					NC			E2E-X10MY2 2M
			M12 Connector Models	---	NO	(3, 4): (AC, AC)	E	E2E-X10MY1-M1
					NC	(1, 2): (AC, AC)	F	E2E-X10MY2-M1
M30	18 mm		Pre-wired Models (2 m)	PVC (oil-resistant)	NO	---	---	E2E-X18MY1 2M *1
					NC			E2E-X18MY2 2M
			M12 Connector Models	---	NO	(3, 4): (AC, AC)	E	E2E-X18MY1-M1
					NC	(1, 2): (AC, AC)	F	E2E-X18MY2-M1

*1. Models with different frequencies are also available. The model number is E2E-X □□MY□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.)



Appearance	Sensing distance		Connection method	Cable specifications	Operation mode	Pin arrangement	Applicable connector code	Model
M12	3 mm		Pre-wired Models (2 m)	PVC (oil-resistant)	NO	---	---	E2E-X3T1 2M
M18	7 mm		Pre-wired Models (2 m)	PVC (oil-resistant)		---	---	E2E-X7T1 2M
M30	10 mm		Pre-wired Models (2 m)	PVC (oil-resistant)		---	---	E2E-X10T1 2M

Note: Not compliant with CE.