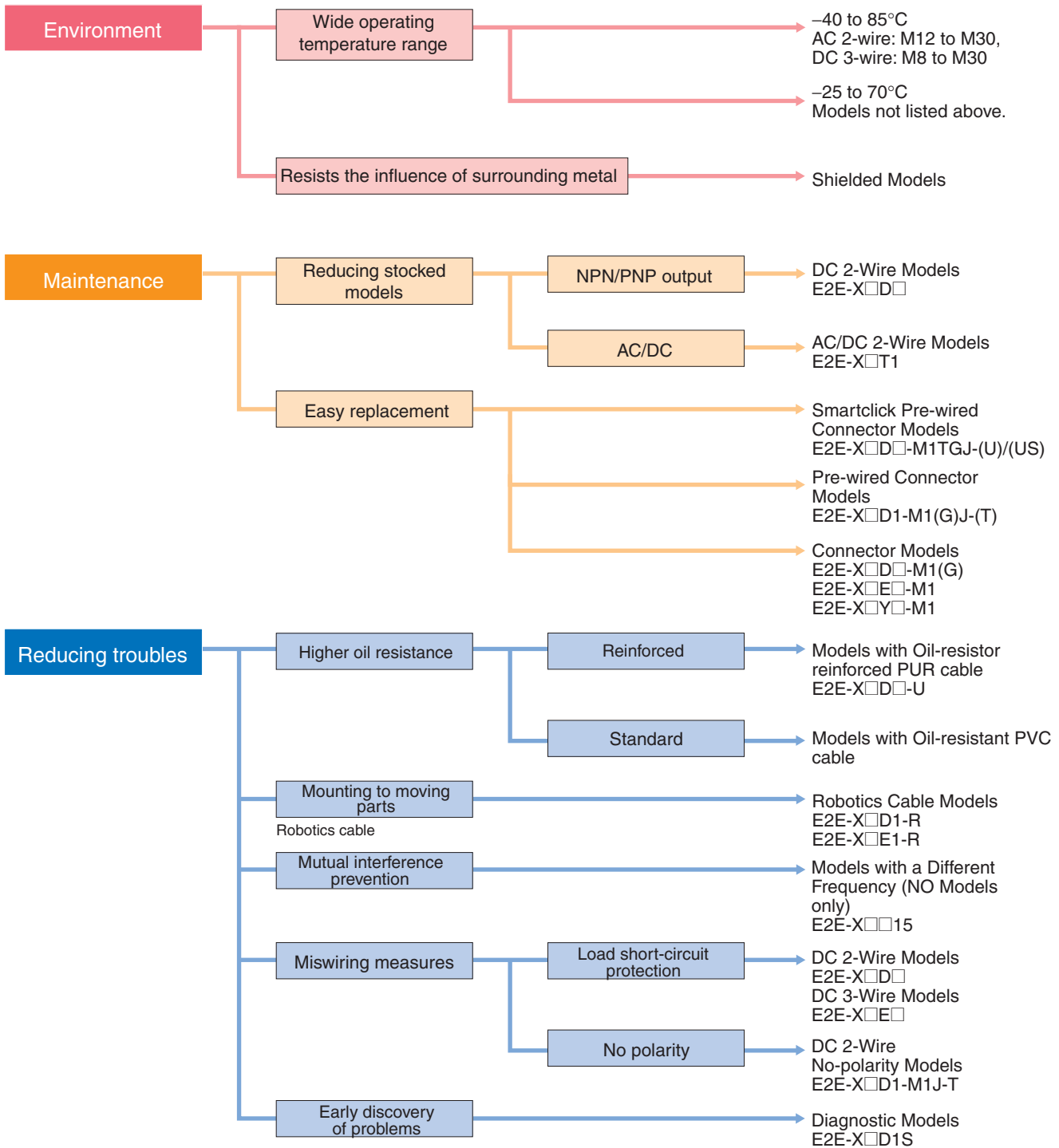


E2E Guide to Selection by Purpose



Note: Refer to *Models Not Listed in this Catalog* for Long Body Models, Transmission Couplers, and Power Couplers.

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 (Applies to DC 2-wire pre-wired models and pre-wired connector models.)	
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.

Ordering Information

2-Wire Models

Shielded DC 2-wire Models with No Self-diagnostic Output [Refer to *Dimensions* on page 27.]

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)	PUR (increased oil-resistant)	Yes	NO	1: +V, 4: 0 V	H	E2E-X2D1-M1TGJ-U 0.3M					
						NC	1: +V, 2: 0 V		E2E-X2D2-M1TGJ-U 0.3M					
				PVC (oil-resistant)		NO	1: +V, 4: 0 V	G	E2E-X2D1-M1TGJ 0.3M					
						NO			E2E-X2D1-U 2M					
				Pre-wired Models (2 m)		PUR (increased oil-resistant)	NC		---	E2E-X2D2-U 2M				
						PVC (oil-resistant)	NO			E2E-X2D1-N 2M				
			M12 Connector Models							A	E2E-X2D1-M1G			
										D	E2E-X2D2-M1G			
			M8 Connector Models							I	E2E-X2D1-M3G			
											E2E-X2D2-M3G			
			M12	3 mm			M12 Pre-wired Smart-click Connector Models (0.3m)	PUR (increased oil-resistant)	Yes	NO	1: +V, 4: 0 V	H	E2E-X3D1-M1TGJ-U 0.3M	
										NC	1: +V, 2: 0 V		E2E-X3D2-M1TGJ-U 0.3M	
PVC (oil-resistant)	NO	1: +V, 4: 0 V			G			E2E-X3D1-M1TGJ 0.3M						
	NO							E2E-X3D1-U 2M						
Pre-wired Models (2 m)	PUR (increased oil-resistant)	NC						---		E2E-X3D2-U 2M				
	PVC (oil-resistant)	NO								E2E-X3D1-N 2M *1				
M12 Connector Models										A	E2E-X3D1-M1G *1			
										D	E2E-X3D2-M1G			
M12 Standard Pre-wired Connector Models (0.3 m)										A	E2E-X3D1-M1GJ 0.3M			
										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)		PUR (increased oil-resistant)	Yes		NO	1: +V, 4: 0 V	H	E2E-X7D1-M1TGJ-U 0.3M	
										NC	1: +V, 2: 0 V		E2E-X7D2-M1TGJ-U 0.3M	
							PVC (oil-resistant)			NO	1: +V, 4: 0 V	G	E2E-X7D1-M1TGJ 0.3M	
										NO			E2E-X7D1-U 2M	
							Pre-wired Models (2 m)			PUR (increased oil-resistant)	NC		---	E2E-X7D2-U 2M
										PVC (oil-resistant)	NO			E2E-X7D1-N 2M *1
			M12 Connector Models							A	E2E-X7D1-M1G *1			
										D	E2E-X7D2-M1G			
			M12 Standard Pre-wired Connector Models (0.3 m)							A	E2E-X7D1-M1GJ 0.3M			
										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)	PUR (increased oil-resistant)		Yes	NO	1: +V, 4: 0 V	H	E2E-X10D1-M1TGJ-U 0.3M	
										NC	1: +V, 2: 0 V		E2E-X10D2-M1TGJ-U 0.3M	
							PVC (oil-resistant)			NO	1: +V, 4: 0 V	G	E2E-X10D1-M1TGJ 0.3M	
										NO			E2E-X10D1-U 2M	
							Pre-wired Models (2 m)			PUR (increased oil-resistant)	NC		---	E2E-X10D2-U 2M
										PVC (oil-resistant)	NO			E2E-X10D1-N 2M *1
M12 Connector Models										A	E2E-X10D1-M1G *1			
										D	E2E-X10D2-M1G			
M12 Standard Pre-wired Connector Models (0.3 m)										A	E2E-X10D1-M1GJ 0.3M			
										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 22 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 26