

Short Barrel Inductive Prox

E2E 2-WIRE DC

Reduce Wiring to Control Devices with Short-Barrel 2-Wire DC Prox Sensors









- Thick nickel-plated brass barrel has wrench flats for easy installation
- Solid potted internal circuitry withstands shocks and water washdown to IP67
- High visibility indicator
- Choose prewired or connector models



Ordering Information

WHEN ORDERING, PLEASE NOTE: Omron has added the suffix “-N” to E2E part numbers for ordering purposes only; the suffix “-N” will not appear on the product.





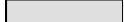



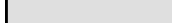

■ PREWIRED SENSORS

Self-diagnostic output function	Type	Size	Sensing distance	Part number	
				NO (Note.)	NC
Yes	Shielded 	M12	 3 mm	E2E-X3D1S-N	---
		M18	 7 mm	E2E-X7D1S-N	---
		M30	 10 mm	E2E-X10D1S-N	---
	Unshielded 	M12	 8 mm	E2E-X8MD1S-N	---
		M18	 14 mm	E2E-X14MD1S-N	---
		M30	 20 mm	E2E-X20MD1S-N	---

Note: A different oscillating frequency is available. Add a “5” to the part number (e.g., E2E-X3D15-N-N).














(This table continues on the next page.)

Ordering Information - continued from previous page

Self-diagnostic output function	Type	Size	Sensing distance	Part number	
				NO (Notes 1, 2.)	NC
No	Shielded 	M8	 2 mm	E2E-X2D1-N-N	E2E-X2D2-N-N
		M12	 3 mm	E2E-X3D1-N-N	E2E-X3D2-N-N
		M18	 7 mm	E2E-X7D1-N-N	E2E-X7D2-N-N
		M30	 10 mm	E2E-X10D1-N-N	E2E-X10D2-N-N
	Unshielded 	M8	 4 mm	E2E-X4MD1-N	E2E-X4MD2-N
		M12	 8 mm	E2E-X8MD1-N	E2E-X8MD2-N
		M18	 14 mm	E2E-X14MD1-N	E2E-X14MD2-N
		M30	 20 mm	E2E-X20MD1-N	E2E-X20MD2-N

- Note: 1. A different oscillating frequency is available. Add a "5" to the part number (e.g., E2E-X3D15-N-N).
 2. E2E sensors with robotic cable are available. Add a "R" in the part number (e.g., E2E-X3D1-R-N).





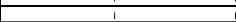




■ SENSORS WITH BUILT-IN CONNECTOR

Connector size	Self-diagnostic output function	Type	Size	Sensing distance	Part number	
					NO (Pins 1 and 4)	NC (Pins 1 and 2)
M12/Micro Change®	Yes	Shielded 	M12	 3 mm	E2E-X3D1S-M1-N	---
			M18	 7 mm	E2E-X7D1S-M1-N	---
			M30	 10 mm	E2E-X10D1S-M1-N	---
		Unshielded 	M12	 8 mm	E2E-X8MD1S-M1-N	---
			M18	 14 mm	E2E-X14MD1S-M1-N	---
			M30	 20 mm	E2E-X20MD1S-M1-N	---
No	Shielded 	M8	 2 mm	E2E-X2D1-M1G-N	E2E-X2D2-M1G-N	
		M12	 3 mm	E2E-X3D1-M1G-N (See Note 1.)	E2E-X3D2-M1G-N	
		M18	 7 mm	E2E-X7D1-M1G-N (See Note 1.)	E2E-X7D2-M1G-N	
		M30	 10 mm	E2E-X10D1-M1G-N (See Note 1.)	E2E-X10D2-M1G-N	

- Note: 1. A different oscillating frequency is available. Add a "5" to the part number (e.g., E2E-X3D15-N-N).
 2. E2E sensors with a "G" in the part number denotes alternate pin arrangement. Refer to the *Connections* section.
 3. Connector cordsets: For MicroChange® use OMRON Y96E-44□D□; for NanoChange® use Omron XS3F-M42□-40□-R.




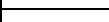


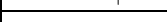

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Ordering Information - continued from previous page

Connector size	Self-diagnostic output function	Type	Size	Sensing distance	Part number	
					NO (Pins 1 and 4)	NC (Pins 1 and 2)
M12/Micro Change®	No	Unshielded 	M8	 4 mm	E2E-X4MD1-M1G-N	E2E-X4MD2-M1G-N
			M12	 8 mm	E2E-X8MD1-M1G-N (See Note 1.)	E2E-X8MD2-M1G-N
			M18	 14 mm	E2E-X14MD1-M1G-N (See Note 1.)	E2E-X14MD2-M1G-N
			M30	 20 mm	E2E-X20MD1-M1G-N (See Note 1.)	E2E-X20MD2-M1G-N
M8/Nano Change®	No	Shielded 	M8	 2 mm	E2E-X2D1-M3G	E2E-X2D2-M3G
		Unshielded 		 4 mm	E2E-X4MD1-M3G	E2E-X4MD2-M3G





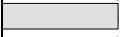




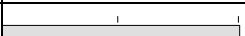
- Note: 1. A different oscillating frequency is available. Add a "5" to the part number (e.g., E2E-X3D15-N-N).
 2. E2E sensors with a "G" in the part number denotes alternate pin arrangement. Refer to the *Connections* section.
 3. Connector cordsets: For MicroChange® use OMRON Y96E-44□D□; for NanoChange® use Omron XS3F-M42□-40□-R.

■ SENSOR WITH PIGTAIL CONNECTOR

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

- 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 PLC's ON voltage, for example) when connecting the proximity sensor to a load.
 2. Connector cordsets: Use OMRON Y96E-44□D□.

■ SENSOR WITH FOUR-PIN CONNECTOR

Type	Size	Sensing distance	Part number	
			NO (Pins 3 and 4)	NC (Pins 2 and 3)
Shielded 	M8	 2 mm	E2E-X2D1-M1-N	E2E-X2D2-M1-N
	M12	 3 mm	E2E-X3D1-M1-N	E2E-X3D2-M1-N
	M18	 7 mm	E2E-X7D1-M1-N	E2E-X7D2-M1-N
	M30	 10 mm	E2E-X10D1-M1-N	E2E-X10D2-M1-N
Unshielded 	M8	 4 mm	E2E-X4MD1-M1-N	E2E-X4MD2-M1-N
	M12	 8 mm	E2E-X8MD1-M1-N	E2E-X8MD2-M1-N
	M18	 14 mm	E2E-X14MD1-M1-N	E2E-X14MD2-M1-N
	M30	 20 mm	E2E-X20MD1-M1-N	E2E-X20MD2-M1-N

■ ACCESSORIES

Description	Part number	
Mounting brackets	Fits M8 size sensors	Y92E-B8
	Fits M12 size sensors	Y92E-B12
	Fits M18 size sensors	Y92E-B18
	Fits M30 size sensors	Y92E-B30
Silicone rubber covers for shielded sensors	Fits M12 size sensors	Y92E-E12-2
	Fits M18 size sensors	Y92E-E18-2
	Fits M30 size sensors	Y92E-E30-2
Connector cordsets	See Y96E and XS Connector Cordsets data sheets for details	

Note: Use OMRON Y96E-44□□ cordsets with M12 connector; use XS3F cordsets with M8 connector.

■ REPLACEMENT PARTS

Description	Part number	
Mounting hardware including one pair of metal nuts and one washer	Fits M8 size sensors	M8-MHWS
	Fits M12 size sensors	M12-MHWS
	Fits M18 size sensors	M18-MHWS
	Fits M30 size sensors	M30-MHWS