

Cylindrical Proximity Sensor E2A3

High Quality for Extra Long Distance

- CENELEC triple-distance operation.
- Normally open (NO), and normally closed (NC) models are available.
- Stainless steel and brass housings.
- 360° angle indicators

<READ AND UNDERSTAND THIS CATALOG>

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.



Ordering Information

DC 3-wire Models

Size	Type	Sensing distance	Connection	Body material	Thread length	Output	Operation mode: NO	Operation mode: NC
M8	Shielded	3.0mm	Pre-wired	Stainless steel (See note.)	27 (40) mm	PNP	E2A3-S08KS03-WP-B1 2M	E2A3-S08KS03-WP-B2 2M
						NPN	E2A3-S08KS03-WP-C1 2M	E2A3-S08KS03-WP-C2 2M
			M12 connector		27 (44) mm	PNP	E2A3-S08KS03-M1-B1	E2A3-S08KS03-M1-B2
						NPN	E2A3-S08KS03-M1-C1	E2A3-S08KS03-M1-C2
			M8 connector (3-pin)		27 (40) mm	PNP	E2A3-S08KS03-M5-B1	E2A3-S08KS03-M5-B2
						NPN	E2A3-S08KS03-M5-C1	E2A3-S08KS03-M5-C2
M12	Shielded	6.0mm	Pre-wired	Brass	34 (50) mm	PNP	E2A3-M12KS06-WP-B1 2M	E2A3-M12KS06-WP-B2 2M
						NPN	E2A3-M12KS06-WP-C1 2M	E2A3-M12KS06-WP-C2 2M
			M12 connector		34 (49) mm	PNP	E2A3-M12KS06-M1-B1	E2A3-M12KS06-M1-B2
						NPN	E2A3-M12KS06-M1-C1	E2A3-M12KS06-M1-C2
			Pre-wired		39 (60) mm	PNP	E2A3-M18KS11-WP-B1 2M	E2A3-M18KS11-WP-B2 2M
						NPN	E2A3-M18KS11-WP-C1 2M	E2A3-M18KS11-WP-C2 2M
M12 connector	39 (54) mm	PNP	E2A3-M18KS11-M1-B1	E2A3-M18KS11-M1-B2				
		NPN	E2A3-M18KS11-M1-C1	E2A3-M18KS11-M1-C2				
M30	Shielded	20.0mm	Pre-wired	Brass	44 (65) mm	PNP	E2A3-M30KS20-WP-B1 2M	E2A3-M30KS20-WP-B2 2M
						NPN	E2A3-M30KS20-WP-C1 2M	E2A3-M30KS20-WP-C2 2M
			M12 connector		44 (59) mm	PNP	E2A3-M30KS20-M1-B1	E2A3-M30KS20-M1-B2
						NPN	E2A3-M30KS20-M1-C1	E2A3-M30KS20-M1-C2

Note: Material specifications for stainless steel housing case: 1.4305 (W.-No.), SUS303 (AISI), 2346 (SS).

Connectivity

E2A3 Sensors are available with the following connectors and cable materials:

Pre-wired Models



Standard cable lengths are 2 m and 5 m.
For other cable lengths, please contact your OMRON representative.

Standard cable material: PVC (4-mm dia.) -WP

Model Number Legend

E2A □ - □ □ □ □ □ - □ - □ □ □ - □ □

1 2 3 4 5 6 7 8 9 10 11 12

Example: E2A3-M12KS06-M1-B1 Triple distance, M12, standard barrel, shielded, Sn = 6 mm, M12 connector, PNP-NO
E2A3-S08KS03-WP-B1 2M Triple distance, M8 stainless steel, standard barrel, shielded, Sn = 3 mm, pre-wired PVC cable, PNP-NO, cable length = 2 m

1. Basic name

E2A

2. Sensing technology

Blank: Standard double distance

3: Triple distance

3. Housing shape and material

M: Cylindrical, metric threaded, brass

S: Cylindrical, metric threaded, stainless steel

4. Housing size

08: 8 mm

12: 12 mm

18: 18 mm

30: 30 mm

5. Barrel length

K: Standard length

L: Long body

6. Shield

S: Shielded

N: Non-shielded

7. Sensing distance

Numeral: Sensing distance: e.g., 03 = 3 mm, 11 = 11 mm

Connector Models



Standard connectors: M12, M8 (3-pin)

-M1, -M5

8. Kind of connection

WP: Pre-wired, PVC, 4-mm dia.

M1: M12 connector (4-pin) *

M5: M8 connector (3-pin)

9. Power source and output

B: DC, 3-wire, PNP open collector

C: DC, 3-wire, NPN open collector

10. Operation mode

1: Normally open (NO)

2: Normally closed (NC)

11. Specials (e.g., cable material, oscillating frequency)

12. Cable length

Blank: Connector Model

Numeral: Cable length