

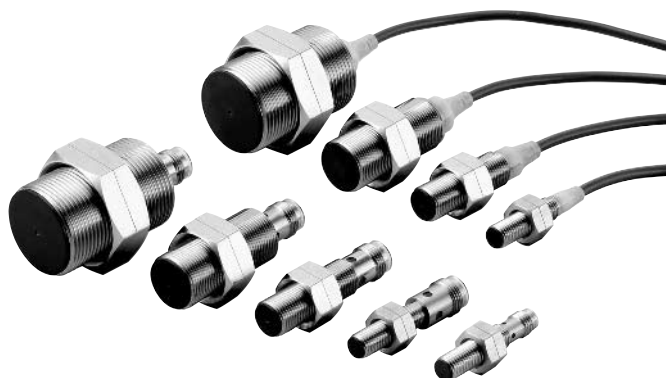
# Cylindrical Proximity Sensor E2A3

## 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<br>(See note.) | 27 (40) mm         | PNP                     | E2A3-S08KS03-WP-B1 2M | E2A3-S08KS03-WP-B2 2M |
|      |          |                  | M12 connector |                                | 27 (44) mm         | NPN                     | E2A3-S08KS03-WP-C1 2M | E2A3-S08KS03-WP-C2 2M |
|      |          |                  |               |                                |                    | M8 connector<br>(3-pin) | 27 (40) mm            | PNP                   |
|      |          |                  | NPN           |                                | E2A3-S08KS03-M1-C1 |                         |                       | E2A3-S08KS03-M1-C2    |
|      |          |                  | 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    |
| M18  | Shielded | 11.0mm           | Pre-wired     | Brass                          | 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