

## Perfect fit for standard environments

- Embody two seemingly contradictory characteristics: value-for-money and high reliability
- All 372 Models
- Four different sizes: M8, M12, M18 and M30
- Single and double sensing distances, Shielded and unshielded
- A choice of short and long bodies, two connecting methods and four output types
- Operating temperature:  $-25^{\circ}\text{C}$  to  $70^{\circ}\text{C}$
- Water resistance: IP67
- With an all-round 360° visible indicator



Refer to *Safety Precautions* on page 20.

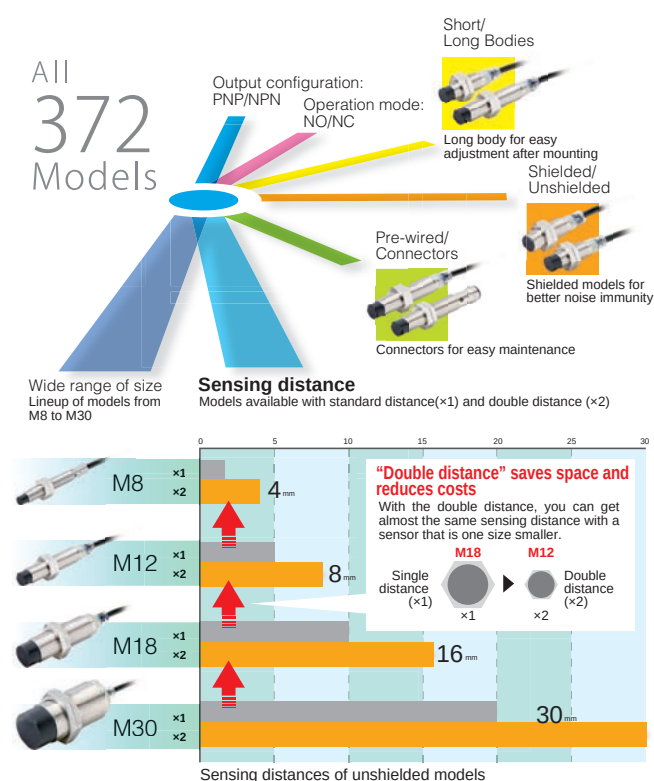
## Features

### Wide Variation

**"Double Distance" Close at Hand**

**Perfect Fit to Your Application Needs**

With no less than 372 models in the family.  
You can choose the one that exactly meets your needs.  
E2B series can save cost & your time via single source.



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

### Reliable Performance

#### 360-degree indication

Easy visibility for 360° even in dark locations so you can mount the sensor in any direction.

\* The 360-degree indication is only for Pre-wired Models of M12, M18, and M30.

\* The other models (Pre-wired Models of M8 and all the Connector Models) have 4 LEDs at 90-degree intervals, which realize clear visibility from a 360-degree angle.

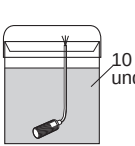
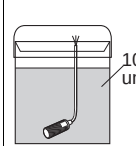


#### Oil-mist environment resistant!



#### IP67

We have performed not only a specified test for rating the degree of protection (IP67) for catalogs, but also tests with oil mist which appears onsite. Simulation tests has been performed with attachment of high concentration of oil mist.

| Degree of Protection | E2B                                                                                                                                                                                  | E2E (M8/M12/M18/M30 size)                                                                                                                                              | Small Dia E2E (3 dia./4 dia./6.5 dia./M4/M5)                                                                                                        |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Water resistance     | IP67                                                                                                                                                                                 | IP67<br>IP69K *1                                                                                                                                                       | IP67                                                                                                                                                |
| Oil resistance       | In oil-mist of soluble cutting oil diluted, 250 hours, the temperature of atmosphere is 23°C<br> | Soaked in oil (soluble type and insoluble) 500 hours, temperature of oil 50°C<br> | Soaked in insoluble oil 250 hours, temperature of oil 50°C<br> |

\*1. There are so many kinds of E2E, not all IP69K rated. In detailed part#, please contact your OMRON representative.

# E2B

## Ordering Information

| Size                                     |        |            | Sensing distance | Connecting method (See note 1.) | Body length | Output configuration | Operation mode NO    | Operation mode NC    |
|------------------------------------------|--------|------------|------------------|---------------------------------|-------------|----------------------|----------------------|----------------------|
| M8<br>(Stainless steel)<br>(See note 2.) | Single | Shielded   | 1.5 mm           | Pre-wired                       | Short       | PNP                  | E2B-S08KS01-WP-B1 2M | E2B-S08KS01-WP-B2 2M |
|                                          |        |            |                  |                                 |             | NPN                  | E2B-S08KS01-WP-C1 2M | E2B-S08KS01-WP-C2 2M |
|                                          |        |            |                  | M8 Connector (3-pin)            | Short       | PNP                  | E2B-S08LS01-WP-B1 2M | E2B-S08LS01-WP-B2 2M |
|                                          |        |            |                  |                                 | Long        | NPN                  | E2B-S08LS01-WP-C1 2M | E2B-S08LS01-WP-C2 2M |
|                                          |        | Unshielded | 2 mm             | M8 Connector (3-pin)            | Short       | PNP                  | E2B-S08KS01-MC-B1    | E2B-S08KS01-MC-B2    |
|                                          |        |            |                  |                                 | Long        | NPN                  | E2B-S08KS01-MC-C1    | E2B-S08KS01-MC-C2    |
|                                          |        |            |                  | M8 Connector (3-pin)            | Short       | PNP                  | E2B-S08LS01-MC-B1    | E2B-S08LS01-MC-B2    |
|                                          |        |            |                  |                                 | Long        | NPN                  | E2B-S08LS01-MC-C1    | E2B-S08LS01-MC-C2    |
|                                          | Double | Shielded   | 2 mm             | Pre-wired                       | Short       | PNP                  | E2B-S08KN02-WP-B1 2M | E2B-S08KN02-WP-B2 2M |
|                                          |        |            |                  |                                 | Long        | NPN                  | E2B-S08KN02-WP-C1 2M | E2B-S08KN02-WP-C2 2M |
|                                          |        |            |                  | M8 Connector (3-pin)            | Short       | PNP                  | E2B-S08LN02-WP-B1 2M | E2B-S08LN02-WP-B2 2M |
|                                          |        |            |                  |                                 | Long        | NPN                  | E2B-S08LN02-WP-C1 2M | E2B-S08LN02-WP-C2 2M |
|                                          |        | Unshielded | 4 mm             | M8 Connector (3-pin)            | Short       | PNP                  | E2B-S08KN02-MC-B1    | E2B-S08KN02-MC-B2    |
|                                          |        |            |                  |                                 | Long        | NPN                  | E2B-S08KN02-MC-C1    | E2B-S08KN02-MC-C2    |
|                                          |        |            |                  | M8 Connector (3-pin)            | Short       | PNP                  | E2B-S08LN02-MC-B1    | E2B-S08LN02-MC-B2    |
|                                          |        |            |                  |                                 | Long        | NPN                  | E2B-S08LN02-MC-C1    | E2B-S08LN02-MC-C2    |
|                                          |        | Shielded   | 2 mm             | Pre-wired                       | Short       | PNP                  | E2B-S08KS02-WP-B1 2M | E2B-S08KS02-WP-B2 2M |
|                                          |        |            |                  |                                 | Long        | NPN                  | E2B-S08KS02-WP-C1 2M | E2B-S08KS02-WP-C2 2M |
|                                          |        |            |                  | M8 Connector (3-pin)            | Short       | PNP                  | E2B-S08LS02-WP-B1 2M | E2B-S08LS02-WP-B2 2M |
|                                          |        |            |                  |                                 | Long        | NPN                  | E2B-S08LS02-WP-C1 2M | E2B-S08LS02-WP-C2 2M |
|                                          |        | Unshielded | 4 mm             | M8 Connector (3-pin)            | Short       | PNP                  | E2B-S08KS02-MC-B1    | E2B-S08KS02-MC-B2    |
|                                          |        |            |                  |                                 | Long        | NPN                  | E2B-S08KS02-MC-C1    | E2B-S08KS02-MC-C2    |
|                                          |        |            |                  | M8 Connector (3-pin)            | Short       | PNP                  | E2B-S08LS02-MC-B1    | E2B-S08LS02-MC-B2    |
|                                          |        |            |                  |                                 | Long        | NPN                  | E2B-S08LS02-MC-C1    | E2B-S08LS02-MC-C2    |
|                                          |        | Unshielded | 4 mm             | Pre-wired                       | Short       | PNP                  | E2B-S08KN04-WP-B1 2M | E2B-S08KN04-WP-B2 2M |
|                                          |        |            |                  |                                 | Long        | NPN                  | E2B-S08KN04-WP-C1 2M | E2B-S08KN04-WP-C2 2M |
|                                          |        |            |                  | M8 Connector (3-pin)            | Short       | PNP                  | E2B-S08LN04-WP-B1 2M | E2B-S08LN04-WP-B2 2M |
|                                          |        |            |                  |                                 | Long        | NPN                  | E2B-S08LN04-WP-C1 2M | E2B-S08LN04-WP-C2 2M |
|                                          |        | Unshielded | 4 mm             | M8 Connector (3-pin)            | Short       | PNP                  | E2B-S08KN04-MC-B1    | E2B-S08KN04-MC-B2    |
|                                          |        |            |                  |                                 | Long        | NPN                  | E2B-S08KN04-MC-C1    | E2B-S08KN04-MC-C2    |
|                                          |        |            |                  | M8 Connector (3-pin)            | Short       | PNP                  | E2B-S08LN04-MC-B1    | E2B-S08LN04-MC-B2    |
|                                          |        |            |                  |                                 | Long        | NPN                  | E2B-S08LN04-MC-C1    | E2B-S08LN04-MC-C2    |

Note: 1. Pre-wired Models are available in the cable lengths of 2 m and 5 m.  
2. Material specifications for stainless steel housing case: 1.4305 (W.-No.), SUS 303 (AISI), 2346 (SS).

| Size        |        |                        | Sensing distance | Connecting method (See note 1.) | Body length | Output configuration | Operation mode NO    | Operation mode NC    |
|-------------|--------|------------------------|------------------|---------------------------------|-------------|----------------------|----------------------|----------------------|
| M12 (Brass) | Single | Shielded               | 2 mm             | Pre-wired                       | Short       | PNP                  | E2B-M12KS02-WP-B1 2M | E2B-M12KS02-WP-B2 2M |
|             |        |                        |                  |                                 |             | NPN                  | E2B-M12KS02-WP-C1 2M | E2B-M12KS02-WP-C2 2M |
|             |        |                        |                  | M12 Connector                   | Short       | PNP                  | E2B-M12LS02-WP-B1 2M | E2B-M12LS02-WP-B2 2M |
|             |        |                        |                  |                                 | Long        | NPN                  | E2B-M12LS02-WP-C1 2M | E2B-M12LS02-WP-C2 2M |
|             |        | Unshielded             | 5 mm             | M12 Connector                   | Short       | PNP                  | E2B-M12KS02-M1-B1    | E2B-M12KS02-M1-B2    |
|             |        |                        |                  |                                 | Long        | NPN                  | E2B-M12KS02-M1-C1    | E2B-M12KS02-M1-C2    |
|             |        |                        |                  | M12 Connector                   | Short       | PNP                  | E2B-M12LS02-M1-B1    | E2B-M12LS02-M1-B2    |
|             |        |                        |                  |                                 | Long        | NPN                  | E2B-M12LS02-M1-C1    | E2B-M12LS02-M1-C2    |
|             | Double | Shielded (See note 2.) | 4 mm             | Pre-wired                       | Short       | PNP                  | E2B-M12KN05-WP-B1 2M | E2B-M12KN05-WP-B2 2M |
|             |        |                        |                  |                                 | Long        | NPN                  | E2B-M12KN05-WP-C1 2M | E2B-M12KN05-WP-C2 2M |
|             |        |                        |                  | M12 Connector                   | Short       | PNP                  | E2B-M12LN05-WP-B1 2M | E2B-M12LN05-WP-B2 2M |
|             |        |                        |                  |                                 | Long        | NPN                  | E2B-M12LN05-WP-C1 2M | E2B-M12LN05-WP-C2 2M |
|             |        | Unshielded             | 8 mm             | M12 Connector                   | Short       | PNP                  | E2B-M12KN05-M1-B1    | E2B-M12KN05-M1-B2    |
|             |        |                        |                  |                                 | Long        | NPN                  | E2B-M12KN05-M1-C1    | E2B-M12KN05-M1-C2    |
|             |        |                        |                  | M12 Connector                   | Short       | PNP                  | E2B-M12LN05-M1-B1    | E2B-M12LN05-M1-B2    |
|             |        |                        |                  |                                 | Long        | NPN                  | E2B-M12LN05-M1-C1    | E2B-M12LN05-M1-C2    |
|             |        | Shielded               | 4 mm             | Pre-wired                       | Short       | PNP                  | E2B-M12KS04-WP-B1 2M | E2B-M12KS04-WP-B2 2M |
|             |        |                        |                  |                                 | Long        | NPN                  | E2B-M12KS04-WP-C1 2M | E2B-M12KS04-WP-C2 2M |
|             |        |                        |                  | M12 Connector                   | Short       | PNP                  | E2B-M12LS04-WP-B1 2M | E2B-M12LS04-WP-B2 2M |
|             |        |                        |                  |                                 | Long        | NPN                  | E2B-M12LS04-WP-C1 2M | E2B-M12LS04-WP-C2 2M |
|             |        | Unshielded             | 8 mm             | M12 Connector                   | Short       | PNP                  | E2B-M12KS04-M1-B1    | E2B-M12KS04-M1-B2    |
|             |        |                        |                  |                                 | Long        | NPN                  | E2B-M12KS04-M1-C1    | E2B-M12KS04-M1-C2    |
|             |        |                        |                  | M12 Connector                   | Short       | PNP                  | E2B-M12LS04-M1-B1    | E2B-M12LS04-M1-B2    |
|             |        |                        |                  |                                 | Long        | NPN                  | E2B-M12LS04-M1-C1    | E2B-M12LS04-M1-C2    |
|             |        | Unshielded             | 8 mm             | Pre-wired                       | Short       | PNP                  | E2B-M12KN08-WP-B1 2M | E2B-M12KN08-WP-B2 2M |
|             |        |                        |                  |                                 | Long        | NPN                  | E2B-M12KN08-WP-C1 2M | E2B-M12KN08-WP-C2 2M |
|             |        |                        |                  | M12 Connector                   | Short       | PNP                  | E2B-M12LN08-WP-B1 2M | E2B-M12LN08-WP-B2 2M |
|             |        |                        |                  |                                 | Long        | NPN                  | E2B-M12LN08-WP-C1 2M | E2B-M12LN08-WP-C2 2M |
|             |        | Unshielded             | 8 mm             | M12 Connector                   | Short       | PNP                  | E2B-M12KN08-M1-B1    | E2B-M12KN08-M1-B2    |
|             |        |                        |                  |                                 | Long        | NPN                  | E2B-M12KN08-M1-C1    | E2B-M12KN08-M1-C2    |
|             |        |                        |                  | M12 Connector                   | Short       | PNP                  | E2B-M12LN08-M1-B1    | E2B-M12LN08-M1-B2    |
|             |        |                        |                  |                                 | Long        | NPN                  | E2B-M12LN08-M1-C1    | E2B-M12LN08-M1-C2    |

Note: 1. Pre-wired Models are available in the cable lengths of 2 m and 5 m.  
2. There are restrictions that apply to Shielded sensors.  
Please refer to "Effects of Surrounding Metal" on page 20.

| Size        |        |            | Sensing distance       | Connecting method (See note 1.) | Body length | Output configuration | Operation mode NO    | Operation mode NC    |
|-------------|--------|------------|------------------------|---------------------------------|-------------|----------------------|----------------------|----------------------|
| M18 (Brass) | Single | Shielded   | 5 mm                   | Pre-wired                       | Short       | PNP                  | E2B-M18KS05-WP-B1 2M | E2B-M18KS05-WP-B2 2M |
|             |        |            |                        |                                 | Long        | NPN                  | E2B-M18KS05-WP-C1 2M | E2B-M18KS05-WP-C2 2M |
|             |        |            |                        | M12 Connector                   | Short       | PNP                  | E2B-M18LS05-WP-B1 2M | E2B-M18LS05-WP-B2 2M |
|             |        |            |                        |                                 | Long        | NPN                  | E2B-M18LS05-WP-C1 2M | E2B-M18LS05-WP-C2 2M |
|             |        | Unshielded | 10 mm                  | Pre-wired                       | Short       | PNP                  | E2B-M18KS05-M1-B1    | E2B-M18KS05-M1-B2    |
|             |        |            |                        |                                 | Long        | NPN                  | E2B-M18KS05-M1-C1    | E2B-M18KS05-M1-C2    |
|             |        |            |                        | M12 Connector                   | Short       | PNP                  | E2B-M18LS05-M1-B1    | E2B-M18LS05-M1-B2    |
|             |        |            |                        |                                 | Long        | NPN                  | E2B-M18LS05-M1-C1    | E2B-M18LS05-M1-C2    |
|             |        | Double     | Shielded (See note 2.) | Pre-wired                       | Short       | PNP                  | E2B-M18KN10-WP-B1 2M | E2B-M18KN10-WP-B2 2M |
|             |        |            |                        |                                 | Long        | NPN                  | E2B-M18KN10-WP-C1 2M | E2B-M18KN10-WP-C2 2M |
|             |        |            |                        | M12 Connector                   | Short       | PNP                  | E2B-M18LN10-WP-B1 2M | E2B-M18LN10-WP-B2 2M |
|             |        |            |                        |                                 | Long        | NPN                  | E2B-M18LN10-WP-C1 2M | E2B-M18LN10-WP-C2 2M |
|             |        |            | Unshielded             | Pre-wired                       | Short       | PNP                  | E2B-M18KN10-M1-B1    | E2B-M18KN10-M1-B2    |
|             |        |            |                        |                                 | Long        | NPN                  | E2B-M18KN10-M1-C1    | E2B-M18KN10-M1-C2    |
|             |        |            |                        | M12 Connector                   | Short       | PNP                  | E2B-M18LN10-M1-B1    | E2B-M18LN10-M1-B2    |
|             |        |            |                        |                                 | Long        | NPN                  | E2B-M18LN10-M1-C1    | E2B-M18LN10-M1-C2    |
|             |        |            | 8 mm                   | Pre-wired                       | Short       | PNP                  | E2B-M18KS08-WP-B1 2M | E2B-M18KS08-WP-B2 2M |
|             |        |            |                        |                                 | Long        | NPN                  | E2B-M18KS08-WP-C1 2M | E2B-M18KS08-WP-C2 2M |
|             |        |            |                        | M12 Connector                   | Short       | PNP                  | E2B-M18LS08-WP-B1 2M | E2B-M18LS08-WP-B2 2M |
|             |        |            |                        |                                 | Long        | NPN                  | E2B-M18LS08-WP-C1 2M | E2B-M18LS08-WP-C2 2M |
|             |        |            | 16 mm                  | Pre-wired                       | Short       | PNP                  | E2B-M18KS08-M1-B1    | E2B-M18KS08-M1-B2    |
|             |        |            |                        |                                 | Long        | NPN                  | E2B-M18KS08-M1-C1    | E2B-M18KS08-M1-C2    |
|             |        |            |                        | M12 Connector                   | Short       | PNP                  | E2B-M18LS08-M1-B1    | E2B-M18LS08-M1-B2    |
|             |        |            |                        |                                 | Long        | NPN                  | E2B-M18LS08-M1-C1    | E2B-M18LS08-M1-C2    |
|             |        |            |                        | Pre-wired                       | Short       | PNP                  | E2B-M18KN16-WP-B1 2M | E2B-M18KN16-WP-B2 2M |
|             |        |            |                        |                                 | Long        | NPN                  | E2B-M18KN16-WP-C1 2M | E2B-M18KN16-WP-C2 2M |
|             |        |            |                        | M12 Connector                   | Short       | PNP                  | E2B-M18LN16-WP-B1 2M | E2B-M18LN16-WP-B2 2M |
|             |        |            |                        |                                 | Long        | NPN                  | E2B-M18LN16-WP-C1 2M | E2B-M18LN16-WP-C2 2M |
|             |        |            |                        | Pre-wired                       | Short       | PNP                  | E2B-M18KN16-M1-B1    | E2B-M18KN16-M1-B2    |
|             |        |            |                        |                                 | Long        | NPN                  | E2B-M18KN16-M1-C1    | E2B-M18KN16-M1-C2    |
|             |        |            |                        | M12 Connector                   | Short       | PNP                  | E2B-M18LN16-M1-B1    | E2B-M18LN16-M1-B2    |
|             |        |            |                        |                                 | Long        | NPN                  | E2B-M18LN16-M1-C1    | E2B-M18LN16-M1-C2    |

Note: 1. Pre-wired Models are available in the cable lengths of 2 m and 5 m.

2. There are restrictions that apply to Shielded sensors.

Please refer to "Effects of Surrounding Metal" on page 20.

| Size        |        |            | Sensing distance       | Connecting method (See note 1.) | Body length | Output configuration | Operation mode NO    | Operation mode NC    |
|-------------|--------|------------|------------------------|---------------------------------|-------------|----------------------|----------------------|----------------------|
| M30 (Brass) | Single | Shielded   | 10 mm                  | Pre-wired                       | Short       | PNP                  | E2B-M30KS10-WP-B1 2M | E2B-M30KS10-WP-B2 2M |
|             |        |            |                        |                                 | Long        | NPN                  | E2B-M30KS10-WP-C1 2M | E2B-M30KS10-WP-C2 2M |
|             |        |            |                        | M12 Connector                   | Short       | PNP                  | E2B-M30LS10-WP-B1 2M | E2B-M30LS10-WP-B2 2M |
|             |        |            |                        |                                 | Long        | NPN                  | E2B-M30LS10-WP-C1 2M | E2B-M30LS10-WP-C2 2M |
|             |        | Unshielded | 20 mm                  | Pre-wired                       | Short       | PNP                  | E2B-M30KS10-M1-B1    | E2B-M30KS10-M1-B2    |
|             |        |            |                        |                                 | Long        | NPN                  | E2B-M30KS10-M1-C1    | E2B-M30KS10-M1-C2    |
|             |        |            |                        | M12 Connector                   | Short       | PNP                  | E2B-M30LS10-M1-B1    | E2B-M30LS10-M1-B2    |
|             |        |            |                        |                                 | Long        | NPN                  | E2B-M30LS10-M1-C1    | E2B-M30LS10-M1-C2    |
|             |        | Double     | Shielded (See note 2.) | Pre-wired                       | Short       | PNP                  | E2B-M30KN20-WP-B1 2M | E2B-M30KN20-WP-B2 2M |
|             |        |            |                        |                                 | Long        | NPN                  | E2B-M30KN20-WP-C1 2M | E2B-M30KN20-WP-C2 2M |
|             |        |            |                        | M12 Connector                   | Short       | PNP                  | E2B-M30LN20-WP-B1 2M | E2B-M30LN20-WP-B2 2M |
|             |        |            |                        |                                 | Long        | NPN                  | E2B-M30LN20-WP-C1 2M | E2B-M30LN20-WP-C2 2M |
|             |        |            | Unshielded             | Pre-wired                       | Short       | PNP                  | E2B-M30KN20-M1-B1    | E2B-M30KN20-M1-B2    |
|             |        |            |                        |                                 | Long        | NPN                  | E2B-M30KN20-M1-C1    | E2B-M30KN20-M1-C2    |
|             |        |            |                        | M12 Connector                   | Short       | PNP                  | E2B-M30LN20-M1-B1    | E2B-M30LN20-M1-B2    |
|             |        |            |                        |                                 | Long        | NPN                  | E2B-M30LN20-M1-C1    | E2B-M30LN20-M1-C2    |
|             |        |            | 15 mm                  | Pre-wired                       | Short       | PNP                  | E2B-M30KS15-WP-B1 2M | E2B-M30KS15-WP-B2 2M |
|             |        |            |                        |                                 | Long        | NPN                  | E2B-M30KS15-WP-C1 2M | E2B-M30KS15-WP-C2 2M |
|             |        |            |                        | M12 Connector                   | Short       | PNP                  | E2B-M30LS15-WP-B1 2M | E2B-M30LS15-WP-B2 2M |
|             |        |            |                        |                                 | Long        | NPN                  | E2B-M30LS15-WP-C1 2M | E2B-M30LS15-WP-C2 2M |
|             |        |            | 30 mm                  | Pre-wired                       | Short       | PNP                  | E2B-M30KS15-M1-B1    | E2B-M30KS15-M1-B2    |
|             |        |            |                        |                                 | Long        | NPN                  | E2B-M30KS15-M1-C1    | E2B-M30KS15-M1-C2    |
|             |        |            |                        | M12 Connector                   | Short       | PNP                  | E2B-M30LN15-M1-B1    | E2B-M30LN15-M1-B2    |
|             |        |            |                        |                                 | Long        | NPN                  | E2B-M30LN15-M1-C1    | E2B-M30LN15-M1-C2    |
|             |        |            |                        | Pre-wired                       | Short       | PNP                  | E2B-M30LN30-WP-B1 2M | E2B-M30LN30-WP-B2 2M |
|             |        |            |                        |                                 | Long        | NPN                  | E2B-M30LN30-WP-C1 2M | E2B-M30LN30-WP-C2 2M |
|             |        |            |                        | M12 Connector                   | Short       | PNP                  | E2B-M30LN30-M1-B1    | E2B-M30LN30-M1-B2    |
|             |        |            |                        |                                 | Long        | NPN                  | E2B-M30LN30-M1-C1    | E2B-M30LN30-M1-C2    |

Note: 1. Pre-wired Models are available in the cable lengths of 2 m and 5 m.

2. There are restrictions that apply to Shielded sensors.

Please refer to "Effects of Surrounding Metal" on page 20.

## Accessories (Order Separately)

## Sensor I/O Connectors

| Size        | Cable     | Shape       | Cores | Cable length (m) | Model           |
|-------------|-----------|-------------|-------|------------------|-----------------|
| M8 (3-pin)  | PVC       | Straight    | 3     | 2                | XS3F-M8PVC3S2M  |
|             |           |             |       | 5                | XS3F-M8PVC3S5M  |
|             |           | Right-angle |       | 2                | XS3F-M8PVC3A2M  |
|             |           |             |       | 5                | XS3F-M8PVC3A5M  |
|             | PVC Robot | Straight    |       | 2                | XS3F-M321-302-R |
|             |           |             |       | 5                | XS3F-M321-305-R |
|             |           | Right-angle |       | 2                | XS3F-M322-302-R |
|             |           |             |       | 5                | XS3F-M322-305-R |
| M12 (4-pin) | PVC       | Straight    | 4     | 2                | XS2F-M12PVC4S2M |
|             |           |             |       | 5                | XS2F-M12PVC4S5M |
|             |           | Right-angle |       | 2                | XS2F-M12PVC4A2M |
|             |           |             |       | 5                | XS2F-M12PVC4A5M |
|             | PVC Robot | Straight    |       | 2                | XS2F-D421-D80-F |
|             |           |             |       | 5                | XS2F-D421-G80-F |
|             |           | Right-angle |       | 2                | XS2F-D422-D80-F |
|             |           |             |       | 5                | XS2F-D422-G80-F |

## Model Number Legend

E2B-□□□□□□-□□□□  
 1 2 3 4 5 6 7 8 9 10

Example: E2B-M12LS04-M1-B1

E2B-S08KN02-WP-C2 5M

M12, Brass, Long body, Shielded, Sn = 4 mm, M12 connector, PNP, NO

M8, stainless steel, Short body, Unshielded, Sn = 2 mm, Pre-wired PVC cable, NPN, NC,  
 Cable length = 5 m

### 1. Basic name

E2B

### 2. Housing shape and material

M: Cylindrical, metric threaded, brass

S: Cylindrical, metric threaded, stainless steel

### 3. Housing size

08: 8 mm

12: 12 mm

18: 18 mm

30: 30 mm

### 4. Barrel length

K: Short body

L: Long body

### 5. Shield

S: Shielded

N: Unshielded

### 6. Sensing distance

Numeral: Sensing distance:

01 = 1.5 mm, 02 = 2 mm, 04 = 4 mm, 05 = 5 mm,  
 08 = 8 mm, 10 = 10 mm, 15 = 15 mm, 16 = 16 mm,  
 20 = 20 mm, 30 = 30 mm

### 7. Kind of connection

WZ: Pre-wired, PVC, dia 4 mm

Conductor cross section : 0.3 mm<sup>2</sup>

Insulator diameter : 1.3 mm

(See note 1.)

WP: Pre-wired, PVC, dia 4 mm

Conductor cross section : 0.141 mm<sup>2</sup>

Insulator diameter : 0.85 mm

M1: M12 connector

MC: M8 connector (3 pin)

(See note 2.)

### 8. Power source and output

B: PNP

C: NPN

### 9. Operation mode

1: NO (Normally open)

2: NC (Normally closed)

### 10. Cable length

Blank: Connector type

Numeral: Cable length (2M and 5M are available.)

Note: 1. Only M12, M18, M30 type.

2. "WP", "M1" and "MC" are listed products of UL.

# E2B

## Ratings and Specifications

| Item                                             | Size                       | M8                                                                                                                                                             |              |              |                |
|--------------------------------------------------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|----------------|
|                                                  | Sensing distance           | Single                                                                                                                                                         |              | Double       |                |
|                                                  | Type                       | Shielded                                                                                                                                                       | Unshielded   | Shielded     | Unshielded     |
|                                                  | Model                      | E2B-S08□S01                                                                                                                                                    | E2B-S08□N02  | E2B-S08□S02  | E2B-S08□N04    |
| Sensing distance                                 |                            | 1.5 mm ± 10%                                                                                                                                                   | 2 mm ± 10%   | 2 mm ± 10%   | 4 mm ± 10%     |
| Setting distance                                 |                            | 0 to 1.2 mm                                                                                                                                                    | 0 to 1.6 mm  | 0 to 1.6 mm  | 0 to 3.2 mm    |
| Differential travel                              |                            | 10% max. of sensing distance                                                                                                                                   |              |              |                |
| Detectable object                                |                            | Ferrous metal (The sensing distance decreases with non-ferrous metal.)                                                                                         |              |              |                |
| Standard sensing object (mild steel ST37)        |                            | 8 × 8 × 1 mm                                                                                                                                                   | 8 × 8 × 1 mm | 8 × 8 × 1 mm | 12 × 12 × 1 mm |
| Response frequency (See note 1.)                 |                            | 2,000 Hz                                                                                                                                                       | 1,000 Hz     | 1,500 Hz     | 1,000 Hz       |
| Power supply voltage                             |                            | 10 to 30 VDC. (including 10% ripple (p-p))                                                                                                                     |              |              |                |
| Current consumption                              |                            | 10 mA max.                                                                                                                                                     |              |              |                |
| Output type                                      |                            | -B models: PNP open collector<br>-C models: NPN open collector                                                                                                 |              |              |                |
| Control output                                   | Load current (See note 2.) | 200 mA max. (30 VDC max.)                                                                                                                                      |              |              |                |
|                                                  | Residual voltage           | 2 V max. (under load current of 200 mA with cable length of 2 m)                                                                                               |              |              |                |
| Indicator                                        |                            | Operation indicator (Yellow LED)                                                                                                                               |              |              |                |
| Operation mode (with sensing object approaching) |                            | -B1/-C1 models: NO<br>-B2/-C2 models: NC                                                                                                                       |              |              |                |
| Protection circuit                               |                            | Output reverse polarity protection, Power source circuit reverse polarity protection, Surge suppressor, Short-circuit protection                               |              |              |                |
| Ambient air temperature                          |                            | Operation and storage : -25 to 70°C (with no icing or condensation)                                                                                            |              |              |                |
| Temperature influence (See note 2.)              |                            | ±10% max. of sensing distance at 23°C within temperature range of -10 to 55°C<br>±15% max. of sensing distance at 23°C within temperature range of -25 to 70°C |              |              |                |
| Ambient humidity                                 |                            | Operation and Storage: 35 to 95%                                                                                                                               |              |              |                |
| Voltage influence                                |                            | ±1% max. of sensing distance in 24 VDC ±15%                                                                                                                    |              |              |                |
| Insulation resistance                            |                            | 50 MΩ min. (at 500 VDC) between current-carrying parts and case                                                                                                |              |              |                |
| Dielectric strength                              |                            | 1,000 VAC at 50/60 Hz for 1 min between current-carrying parts and case                                                                                        |              |              |                |
| Vibration resistance                             |                            | 10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y and Z directions                                                                                 |              |              |                |
| Shock resistance                                 |                            | 500 m/s <sup>2</sup> , 10 times each in X, Y and Z directions                                                                                                  |              |              |                |
| Standard and listings                            |                            | (1) IP67 (IEC60529) (2) EMC (EN60947-5-2)                                                                                                                      |              |              |                |
| Connecting method                                |                            | Pre-wired models (standard is 4 mm dia. PVC cable with length = 2 m, 5 m).<br>Connector models (M8-3pin)                                                       |              |              |                |
| Weight (packaged)                                | Pre-wired model            | Short body: Approx. 65 g, Long body: Approx. 65 g                                                                                                              |              |              |                |
|                                                  | Connector model            | Short body: Approx. 20 g, Long body: Approx. 20 g                                                                                                              |              |              |                |
| Material                                         | Case                       | Stainless steel (1.4305 (W.-No.), SUS 303 (AISI), 2346 (SS).)                                                                                                  |              |              |                |
|                                                  | Sensing surface            | PBT                                                                                                                                                            |              |              |                |
|                                                  | Cable                      | Standard cable is 4 mm dia. PVC.                                                                                                                               |              |              |                |
|                                                  | Clamping nut               | Brass-nickel plated                                                                                                                                            |              |              |                |
|                                                  | Toothed washer             | Zinc-plated iron                                                                                                                                               |              |              |                |

Note: 1. The response frequency is an average value. Measurement conditions are as follows: standard sensing object, a distance of twice the standard sensing object between sensing objects, and a setting distance of half the sensing distance.

2. When using any model of M8 size at an ambient temperature between -25°C and 60°C, use a load current of 200mA max., at an ambient temperature between 60°C and 70°C, use a load current of 100 mA max.

| Item                                             | Size             | M12                                                                                                                                                            |                |                |                |
|--------------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|
|                                                  | Sensing distance | Single                                                                                                                                                         |                | Double         |                |
|                                                  | Type             | Shielded                                                                                                                                                       | Unshielded     | Shielded       | Unshielded     |
|                                                  | Model            | E2B-M12□S02                                                                                                                                                    | E2B-M12□N05    | E2B-M12□S04    | E2B-M12□N08    |
| Sensing distance                                 |                  | 2 mm ± 10%                                                                                                                                                     | 5 mm ± 10%     | 4 mm ± 10%     | 8 mm ± 10%     |
| Setting distance                                 |                  | 0 to 1.6 mm                                                                                                                                                    | 0 to 4 mm      | 0 to 3.2 mm    | 0 to 6.4 mm    |
| Differential travel                              |                  | 10% max. of sensing distance                                                                                                                                   |                |                |                |
| Detectable object                                |                  | Ferrous metal (The sensing distance decreases with non-ferrous metal.)                                                                                         |                |                |                |
| Standard sensing object (mild steel ST37)        |                  | 12 × 12 × 1 mm                                                                                                                                                 | 15 × 15 × 1 mm | 12 × 12 × 1 mm | 24 × 24 × 1 mm |
| Response frequency (See note 1.)                 |                  | 1,500 Hz                                                                                                                                                       | 800 Hz         | 1,000 Hz       | 800 Hz         |
| Power supply voltage                             |                  | 10 to 30 VDC. (including 10% ripple (p-p))                                                                                                                     |                |                |                |
| Current consumption                              |                  | 10 mA max.                                                                                                                                                     |                |                |                |
| Output type                                      |                  | -B models: PNP open collector<br>-C models: NPN open collector                                                                                                 |                |                |                |
| Control output                                   | Load current     | 200 mA max. (30 VDC max.)                                                                                                                                      |                |                |                |
|                                                  | Residual voltage | 2 V max. (under load current of 200 mA with cable length of 2 m)                                                                                               |                |                |                |
| Indicator                                        |                  | Operation indicator (Yellow LED)                                                                                                                               |                |                |                |
| Operation mode (with sensing object approaching) |                  | -B1/-C1 models: NO<br>-B2/-C2 models: NC                                                                                                                       |                |                |                |
| Protection circuit                               |                  | Output reverse polarity protection, Power source circuit reverse polarity protection, Surge suppressor, Short-circuit protection                               |                |                |                |
| Ambient air temperature                          |                  | Operation and storage : -25 to 70°C (with no icing or condensation)                                                                                            |                |                |                |
| Temperature influence                            |                  | ±10% max. of sensing distance at 23°C within temperature range of -10 to 55°C<br>±15% max. of sensing distance at 23°C within temperature range of -25 to 70°C |                |                |                |
| Ambient humidity                                 |                  | Operation and Storage: 35 to 95%                                                                                                                               |                |                |                |
| Voltage influence                                |                  | ±1% max. of sensing distance in 24 VDC ±15%                                                                                                                    |                |                |                |
| Insulation resistance                            |                  | 50 MΩ min. (at 500 VDC) between current-carrying parts and case                                                                                                |                |                |                |
| Dielectric strength                              |                  | 1,000 VAC at 50/60 Hz for 1 min between current-carrying parts and case                                                                                        |                |                |                |
| Vibration resistance                             |                  | 10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y and Z directions                                                                                 |                |                |                |
| Shock resistance                                 |                  | 1,000 m/s <sup>2</sup> , 10 times each in X, Y and Z directions                                                                                                |                |                |                |
| Standard and listings                            |                  | (1) IP67 (IEC60529) (2) EMC (EN60947-5-2)                                                                                                                      |                |                |                |
| Connecting method                                |                  | Pre-wired models (standard is 4 mm dia. PVC cable with length = 2 m, 5 m).<br>Connector models (M12-4pin)                                                      |                |                |                |
| Weight (packaged)                                | Pre-wired model  | Short body: Approx. 75 g, Long body: Approx. 80 g (See note 2.)                                                                                                |                |                |                |
|                                                  | Connector model  | Short body: Approx. 35 g, Long body: Approx. 40 g                                                                                                              |                |                |                |
| Material                                         | Case             | Brass-nickel plated                                                                                                                                            |                |                |                |
|                                                  | Sensing surface  | PBT                                                                                                                                                            |                |                |                |
|                                                  | Cable            | Standard cable is 4 mm dia. PVC.                                                                                                                               |                |                |                |
|                                                  | Clamping nut     | Brass-nickel plated                                                                                                                                            |                |                |                |
|                                                  |                  | Toothed washer                                                                                                                                                 |                |                |                |
|                                                  |                  | Zinc-plated iron                                                                                                                                               |                |                |                |

Note: 1. The response frequency is an average value. Measurement conditions are as follows: standard sensing object, a distance of twice the standard sensing object between sensing objects, and a setting distance of half the sensing distance.

2. In case of 'WP' cable type.

| Item                                             | Size             | M18                                                                                                                                                            |                |                |                |
|--------------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|
|                                                  | Sensing distance | Single                                                                                                                                                         |                | Double         |                |
|                                                  | Type             | Shielded                                                                                                                                                       | Unshielded     | Shielded       | Unshielded     |
|                                                  | Model            | E2B-M18□S05                                                                                                                                                    | E2B-M18□N10    | E2B-M18□S08    | E2B-M18□N16    |
| Sensing distance                                 |                  | 5 mm ± 10%                                                                                                                                                     | 10 mm ± 10%    | 8 mm ± 10%     | 16 mm ± 10%    |
| Setting distance                                 |                  | 0 to 4 mm                                                                                                                                                      | 0 to 8 mm      | 0 to 6.4 mm    | 0 to 12.8 mm   |
| Differential travel                              |                  | 10% max. of sensing distance                                                                                                                                   |                |                |                |
| Detectable object                                |                  | Ferrous metal (The sensing distance decreases with non-ferrous metal.)                                                                                         |                |                |                |
| Standard sensing object (mild steel ST37)        |                  | 18 × 18 × 1 mm                                                                                                                                                 | 30 × 30 × 1 mm | 24 × 24 × 1 mm | 48 × 48 × 1 mm |
| Response frequency (See note 1.)                 |                  | 600 Hz                                                                                                                                                         | 400 Hz         | 500 Hz         | 400 Hz         |
| Power supply voltage                             |                  | 10 to 30 VDC. (including 10% ripple (p-p))                                                                                                                     |                |                |                |
| Current consumption                              |                  | 10 mA max.                                                                                                                                                     |                |                |                |
| Output type                                      |                  | -B models: PNP open collector<br>-C models: NPN open collector                                                                                                 |                |                |                |
| Control output                                   | Load current     | 200 mA max. (30 VDC max.)                                                                                                                                      |                |                |                |
|                                                  | Residual voltage | 2 V max. (under load current of 200 mA with cable length of 2 m)                                                                                               |                |                |                |
| Indicator                                        |                  | Operation indicator (Yellow LED)                                                                                                                               |                |                |                |
| Operation mode (with sensing object approaching) |                  | -B1/-C1 models: NO<br>-B2/-C2 models: NC                                                                                                                       |                |                |                |
| Protection circuit                               |                  | Output reverse polarity protection, Power source circuit reverse polarity protection, Surge suppressor, Short-circuit protection                               |                |                |                |
| Ambient air temperature                          |                  | Operation and storage : -25 to 70°C (with no icing or condensation)                                                                                            |                |                |                |
| Temperature influence                            |                  | ±10% max. of sensing distance at 23°C within temperature range of -10 to 55°C<br>±15% max. of sensing distance at 23°C within temperature range of -25 to 70°C |                |                |                |
| Ambient humidity                                 |                  | Operation and Storage: 35 to 95%                                                                                                                               |                |                |                |
| Voltage influence                                |                  | ±1% max. of sensing distance in 24 VDC ±15%                                                                                                                    |                |                |                |
| Insulation resistance                            |                  | 50 MΩ min. (at 500 VDC) between current-carrying parts and case                                                                                                |                |                |                |
| Dielectric strength                              |                  | 1,000 VAC at 50/60 Hz for 1 min between current-carrying parts and case                                                                                        |                |                |                |
| Vibration resistance                             |                  | 10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y and Z directions                                                                                 |                |                |                |
| Shock resistance                                 |                  | 1,000 m/s <sup>2</sup> , 10 times each in X, Y and Z directions                                                                                                |                |                |                |
| Standard and listings                            |                  | (1) IP67 (IEC60529) (2) EMC (EN60947-5-2)                                                                                                                      |                |                |                |
| Connecting method                                |                  | Pre-wired models (standard is 4 mm dia. PVC cable with length = 2 m, 5 m).<br>Connector models (M12-4pin)                                                      |                |                |                |
| Weight (packaged)                                | Pre-wired model  | Short body: Approx. 95 g, Long body: Approx. 110 g (See note 2.)                                                                                               |                |                |                |
|                                                  | Connector model  | Short body: Approx. 60 g, Long body: Approx. 80 g                                                                                                              |                |                |                |
| Material                                         | Case             | Brass-nickel plated                                                                                                                                            |                |                |                |
|                                                  | Sensing surface  | PBT                                                                                                                                                            |                |                |                |
|                                                  | Cable            | Standard cable is 4 mm dia. PVC.                                                                                                                               |                |                |                |
|                                                  | Clamping nut     | Brass-nickel plated                                                                                                                                            |                |                |                |
|                                                  | Toothed washer   | Zinc-plated iron                                                                                                                                               |                |                |                |

Note: 1. The response frequency is an average value. Measurement conditions are as follows: standard sensing object, a distance of twice the standard sensing object between sensing objects, and a setting distance of half the sensing distance.

2. In case of 'WP' cable type.



| Item                                             | Size             | M30                                                                                                                                                            |                |                |                |
|--------------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|----------------|
|                                                  | Sensing distance | Single                                                                                                                                                         |                | Double         |                |
|                                                  | Type             | Shielded                                                                                                                                                       | Unshielded     | Shielded       | Unshielded     |
|                                                  | Model            | E2B-M30□S10                                                                                                                                                    | E2B-M30□N20    | E2B-M30□S15    | E2B-M30□N30    |
| Sensing distance                                 |                  | 10 mm ± 10%                                                                                                                                                    | 20 mm ± 10%    | 15 mm ± 10%    | 30 mm ± 10%    |
| Setting distance                                 |                  | 0 to 8 mm                                                                                                                                                      | 0 to 16 mm     | 0 to 11.25 mm  | 0 to 22.5 mm   |
| Differential travel                              |                  | 10% max. of sensing distance                                                                                                                                   |                |                |                |
| Detectable object                                |                  | Ferrous metal (The sensing distance decreases with non-ferrous metal.)                                                                                         |                |                |                |
| Standard sensing object (mild steel ST37)        |                  | 30 × 30 × 1 mm                                                                                                                                                 | 60 × 60 × 1 mm | 45 × 45 × 1 mm | 90 × 90 × 1 mm |
| Response frequency (See note 1.)                 |                  | 400 Hz                                                                                                                                                         | 100 Hz         | 250 Hz         | 100 Hz         |
| Power supply voltage                             |                  | 10 to 30 VDC. (including 10% ripple (p-p))                                                                                                                     |                |                |                |
| Current consumption                              |                  | 10 mA max.                                                                                                                                                     |                |                |                |
| Output type                                      |                  | -B models: PNP open collector<br>-C models: NPN open collector                                                                                                 |                |                |                |
| Control output                                   | Load current     | 200 mA max. (30 VDC max.)                                                                                                                                      |                |                |                |
|                                                  | Residual voltage | 2 V max. (under load current of 200 mA with cable length of 2 m)                                                                                               |                |                |                |
| Indicator                                        |                  | Operation indicator (Yellow LED)                                                                                                                               |                |                |                |
| Operation mode (with sensing object approaching) |                  | -B1/-C1 models: NO<br>-B2/-C2 models: NC                                                                                                                       |                |                |                |
| Protection circuit                               |                  | Output reverse polarity protection, Power source circuit reverse polarity protection, Surge suppressor, Short-circuit protection                               |                |                |                |
| Ambient air temperature                          |                  | Operation and storage : -25 to 70°C (with no icing or condensation)                                                                                            |                |                |                |
| Temperature influence                            |                  | ±10% max. of sensing distance at 23°C within temperature range of -10 to 55°C<br>±15% max. of sensing distance at 23°C within temperature range of -25 to 70°C |                |                |                |
| Ambient humidity                                 |                  | Operation and Storage: 35 to 95%                                                                                                                               |                |                |                |
| Voltage influence                                |                  | ±1% max. of sensing distance in 24 VDC ±15%                                                                                                                    |                |                |                |
| Insulation resistance                            |                  | 50 MΩ min. (at 500 VDC) between current-carrying parts and case                                                                                                |                |                |                |
| Dielectric strength                              |                  | 1,000 VAC at 50/60 Hz for 1 min between current-carrying parts and case                                                                                        |                |                |                |
| Vibration resistance                             |                  | 10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y and Z directions                                                                                 |                |                |                |
| Shock resistance                                 |                  | 1,000 m/s <sup>2</sup> , 10 times each in X, Y and Z directions                                                                                                |                |                |                |
| Standard and listings                            |                  | (1) IP67 (IEC60529) (2) EMC (EN60947-5-2)                                                                                                                      |                |                |                |
| Connecting method                                |                  | Pre-wired models (standard is 4 mm dia. PVC cable with length = 2 m, 5 m).<br>Connector models (M12-4pin)                                                      |                |                |                |
| Weight (packaged)                                | Pre-wired model  | Short body: Approx. 160 g, Long body: Approx. 210 g (See note 2.)                                                                                              |                |                |                |
|                                                  | Connector model  | Short body: Approx. 140 g, Long body: Approx. 160 g                                                                                                            |                |                |                |
| Material                                         | Case             | Brass-nickel plated                                                                                                                                            |                |                |                |
|                                                  | Sensing surface  | PBT                                                                                                                                                            |                |                |                |
|                                                  | Cable            | Standard cable is 4 mm dia. PVC.                                                                                                                               |                |                |                |
|                                                  | Clamping nut     | Brass-nickel plated                                                                                                                                            |                |                |                |
|                                                  |                  | Toothed washer                                                                                                                                                 |                |                |                |
|                                                  |                  | Zinc-plated iron                                                                                                                                               |                |                |                |

Note: 1. The response frequency is an average value. Measurement conditions are as follows: standard sensing object, a distance of twice the standard sensing object between sensing objects, and a setting distance of half the sensing distance.

2. In case of 'WP' cable type.

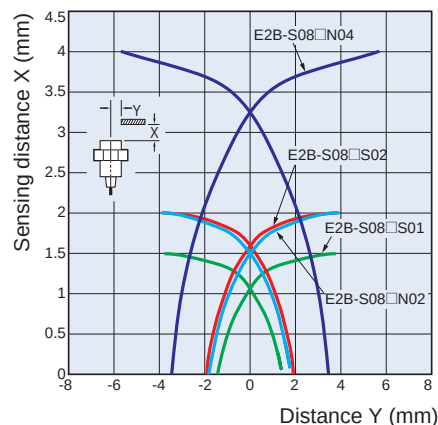
# E2B

## Engineering Data (Reference Value)

### Operating Range

#### M8

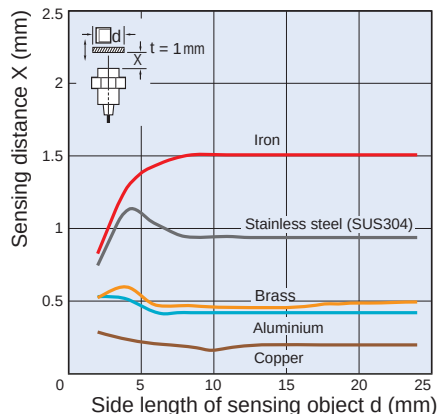
##### E2B-S08



### Influence of Sensing Object Size and Materials

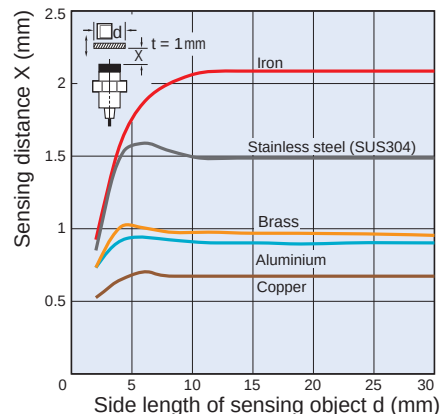
#### Shielded Models

##### E2B-S08□S01

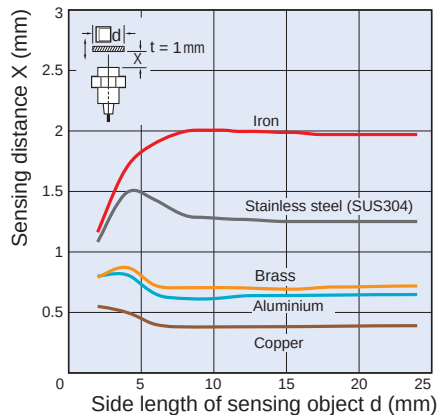


#### Unshielded Models

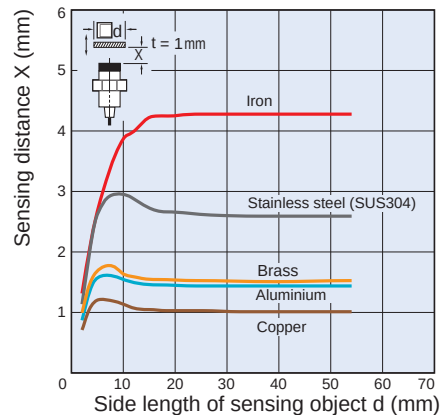
##### E2B-S08□N02



##### E2B-S08□S02



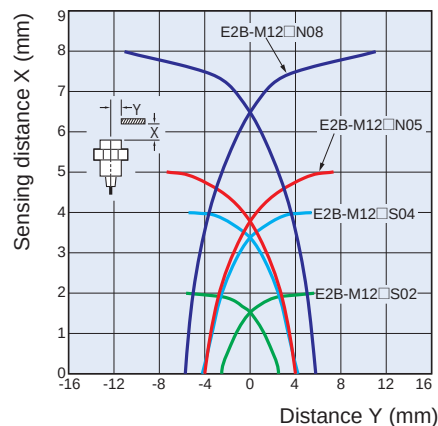
##### E2B-S08□N04



### Operating Range

#### M12

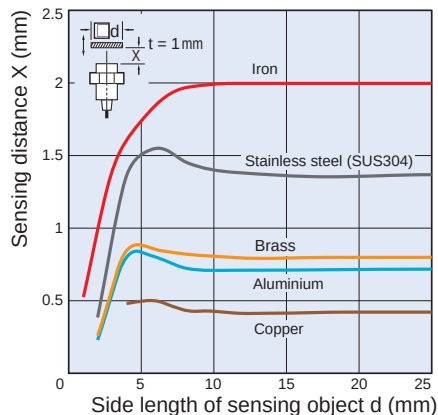
##### E2B-M12



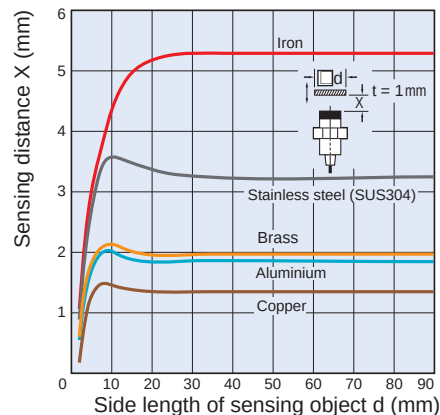
### Influence of Sensing Object Size and Materials

#### Shielded Models

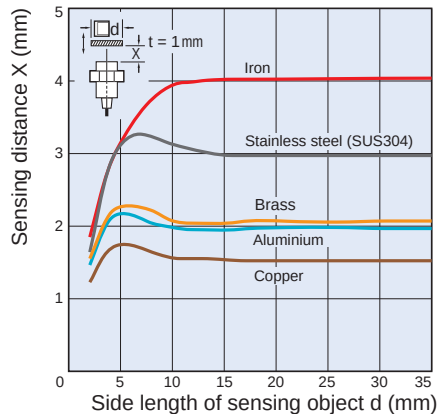
##### E2B-M12□S02



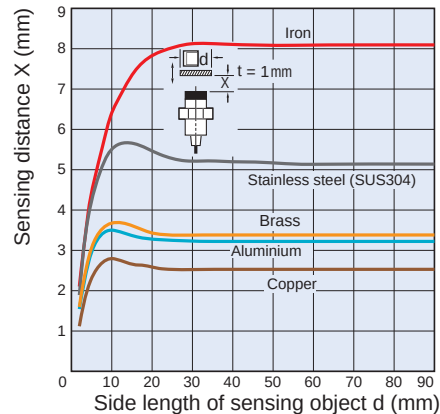
##### E2B-M12□N05



##### E2B-M12□S04



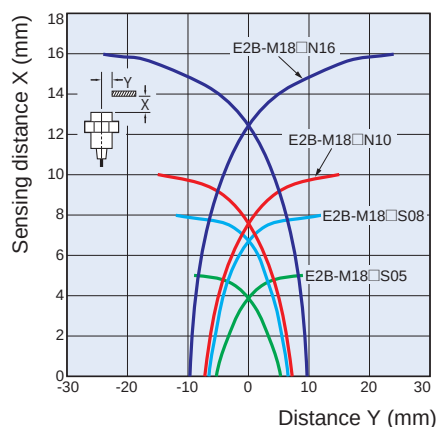
##### E2B-M12□N08



## Operating Range

### M18

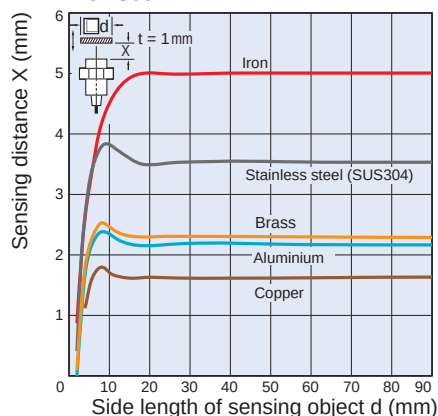
#### E2B-M18



## Influence of Sensing Object Size and Materials

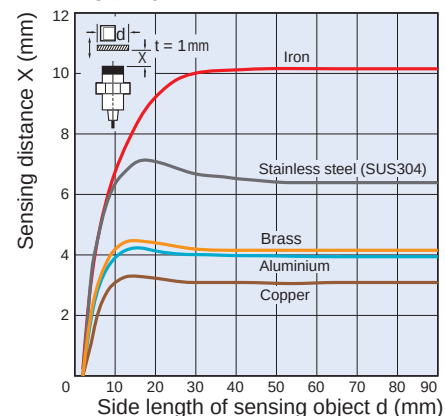
### Shielded Models

#### E2B-M18□S05

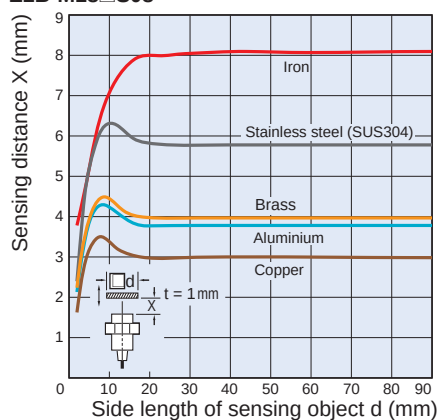


### Unshielded Models

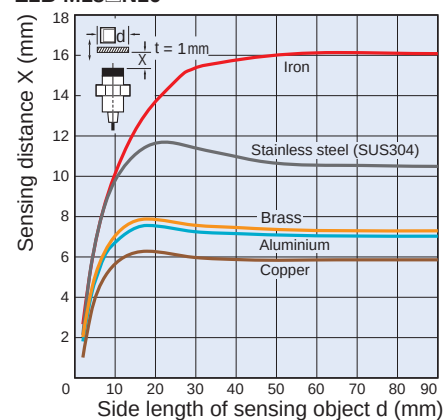
#### E2B-M18□N10



#### E2B-M18□S08



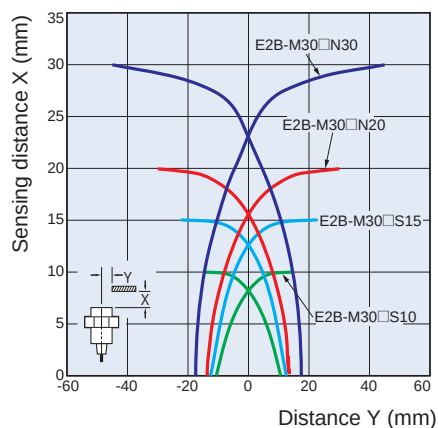
#### E2B-M18□N16



## Operating Range

### M30

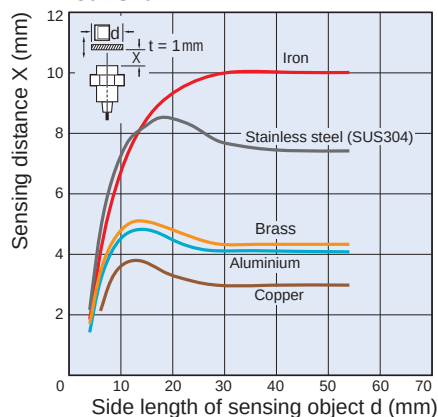
#### E2B-M30



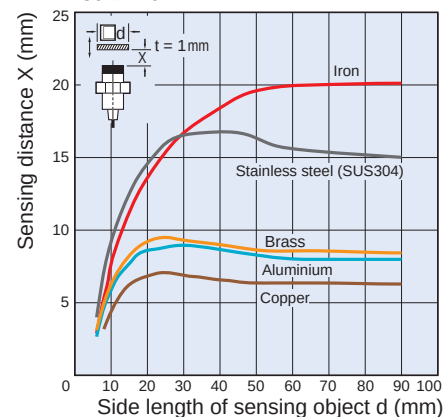
## Influence of Sensing Object Size and Materials

### Shielded Models

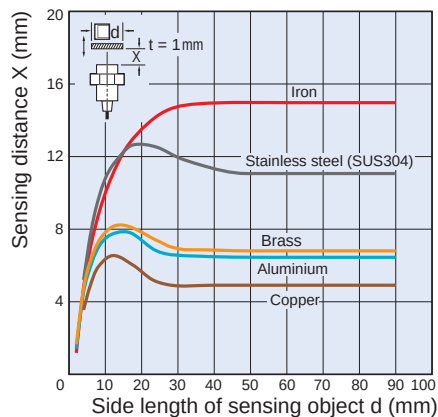
#### E2B-M30□S10



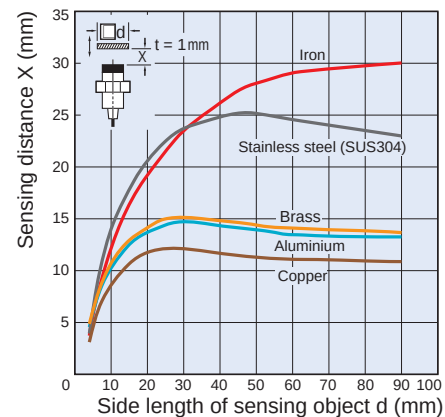
#### E2B-M30□N20



#### E2B-M30□S15



#### E2B-M30□N30



# E2B

## I/O Circuit Diagrams

### PNP Output

| Operation mode | Model                                           | Timing chart                                                                                                                                                                                                   | Output circuit                                                                                                                 |
|----------------|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| NO             | E2B-S08□-□-B□                                   | <p>Non-sensing zone    Sensing zone    Proximity Sensor</p> <p>Sensing object</p> <p>(%)    100    0</p> <p>Rated sensing distance</p> <p>ON    OFF    Yellow indicator</p> <p>ON    OFF    Control output</p> | <p>main circuits</p> <p>Brown ①</p> <p>Black ④</p> <p>Blue ③</p> <p>Load</p> <p>10 to 30 VDC</p>                               |
| NC             |                                                 | <p>Non-sensing zone    Sensing zone    Proximity Sensor</p> <p>Sensing object</p> <p>(%)    100    0</p> <p>Rated sensing distance</p> <p>ON    OFF    Yellow indicator</p> <p>ON    OFF    Control output</p> | <p>M8 connector (3 pin)<br/>Pin Arrangement</p> <p>①    ②    ③</p>                                                             |
| NO             | E2B-M12□-□-B□<br>E2B-M18□-□-B□<br>E2B-M30□-□-B□ | <p>Non-sensing zone    Sensing zone    Proximity Sensor</p> <p>Sensing object</p> <p>(%)    100    0</p> <p>Rated sensing distance</p> <p>ON    OFF    Yellow indicator</p> <p>ON    OFF    Control output</p> | <p>main circuits</p> <p>Brown ①</p> <p>Black ④ or ②</p> <p>Blue ③</p> <p>Load</p> <p>10 to 30 VDC</p> <p>④ : NO<br/>② : NC</p> |
| NC             |                                                 | <p>Non-sensing zone    Sensing zone    Proximity Sensor</p> <p>Sensing object</p> <p>(%)    100    0</p> <p>Rated sensing distance</p> <p>ON    OFF    Yellow indicator</p> <p>ON    OFF    Control output</p> | <p>M12 Connector (4 pin)<br/>Pin Arrangement</p> <p>①    ②    ③    ④</p>                                                       |

## NPN Output

| Operation mode | Model                                           | Timing chart                                                                                                                                                                                                                   | Output circuit                                                                                                               |
|----------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| NO             | E2B-S08□-□-C□                                   | <p>Non-sensing zone      Sensing zone      Proximity Sensor</p> <p>Sensing object</p> <p>(%)      100      0</p> <p>Rated sensing distance</p> <p>ON      OFF      Yellow indicator</p> <p>ON      OFF      Control output</p> | <p>main circuits</p> <p>Brown ①</p> <p>Load</p> <p>Black ④</p> <p>Blue ③</p> <p>10 to 30 VDC</p>                             |
| NC             |                                                 | <p>Non-sensing zone      Sensing zone      Proximity Sensor</p> <p>Sensing object</p> <p>(%)      100      0</p> <p>Rated sensing distance</p> <p>ON      OFF      Yellow indicator</p> <p>ON      OFF      Control output</p> | <p>M8 connector (3 pin)<br/>Pin Arrangement</p>                                                                              |
| NO             | E2B-M12□-□-C□<br>E2B-M18□-□-C□<br>E2B-M30□-□-C□ | <p>Non-sensing zone      Sensing zone      Proximity Sensor</p> <p>Sensing object</p> <p>(%)      100      0</p> <p>Rated sensing distance</p> <p>ON      OFF      Yellow indicator</p> <p>ON      OFF      Control output</p> | <p>main circuits</p> <p>Brown ①</p> <p>Load</p> <p>Black ④ or ②</p> <p>Blue ③</p> <p>10 to 30 VDC</p> <p>④: NO<br/>②: NC</p> |
| NC             |                                                 | <p>Non-sensing zone      Sensing zone      Proximity Sensor</p> <p>Sensing object</p> <p>(%)      100      0</p> <p>Rated sensing distance</p> <p>ON      OFF      Yellow indicator</p> <p>ON      OFF      Control output</p> | <p>M12 Connector (4 pin)<br/>Pin Arrangement</p>                                                                             |

E2B

Dimensions

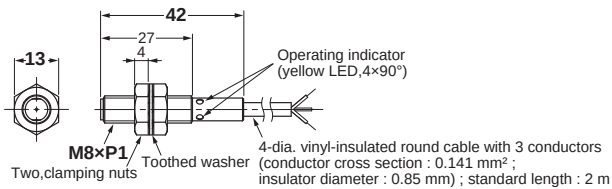
Note: All units are in millimeters unless otherwise indicated.

M8 Size

Pre-wired Models (Shielded)

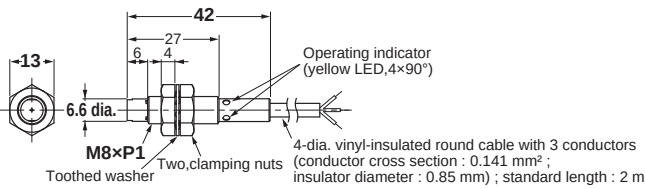
Short Body

E2B-S08KS01-WP-□□/E2B-S08KS02-WP-□□



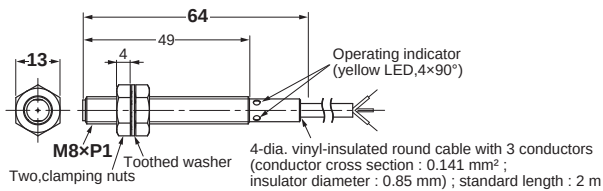
Pre-wired Models (Unshielded)

E2B-S08KN02-WP-□□/E2B-S08KN04-WP-□□

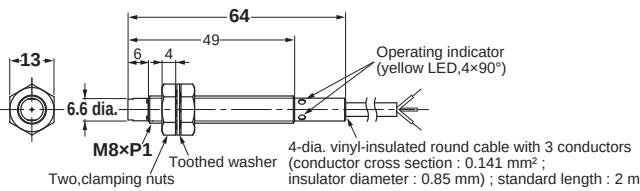


Long Body

E2B-S08LS01-WP-□□/E2B-S08LS02-WP-□□



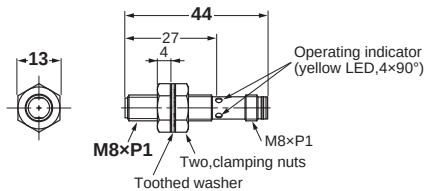
E2B-S08LN02-WP-□□/E2B-S08LN04-WP-□□



Connector Models (Shielded)

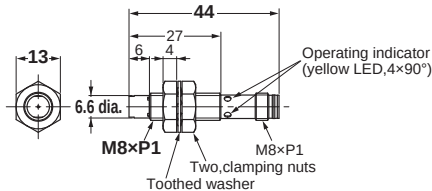
Short Body

E2B-S08KS01-MC-□□/E2B-S08KS02-MC-□□



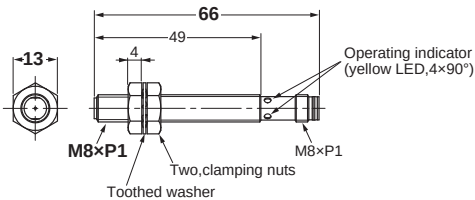
Connector Models (Unshielded)

E2B-S08KN02-MC-□□/E2B-S08KN04-MC-□□

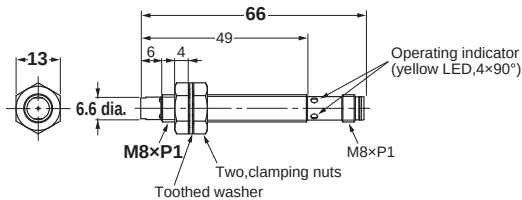


Long Body

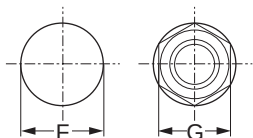
E2B-S08LS01-MC-□□/E2B-S08LS02-MC-□□



E2B-S08LN02-MC-□□/E2B-S08LN04-MC-□□



Mounting Hole Cutout Dimensions



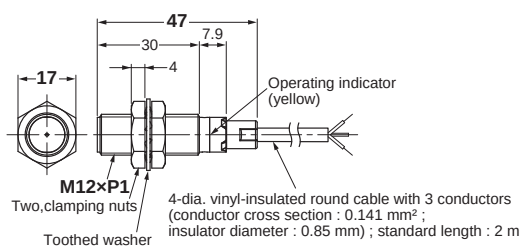
| External diameter of Proximity Sensor | Dimension F (mm)                      | Dimension G (mm) |
|---------------------------------------|---------------------------------------|------------------|
| M8                                    | 8.5 dia. <sup>+0.5</sup> <sub>0</sub> | 13               |

## M12 Size

### Pre-wired Models (Shielded)

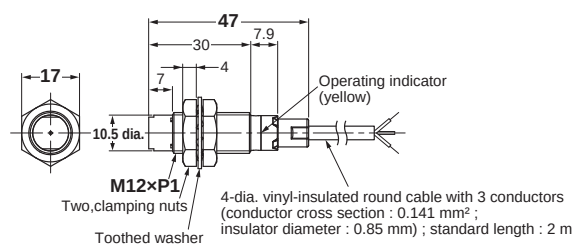
#### Short Body

E2B-M12KS02-WP-□□/E2B-M12KS04-WP-□□



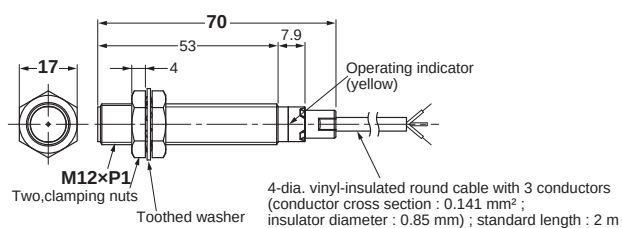
### Pre-wired Models (Unshielded)

E2B-M12KN05-WP-□□/E2B-M12KN08-WP-□□

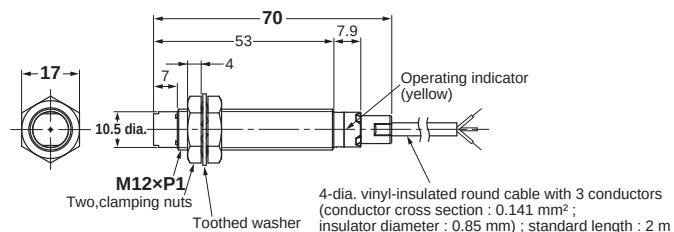


#### Long Body

E2B-M12LS02-WP-□□/E2B-M12LS04-WP-□□



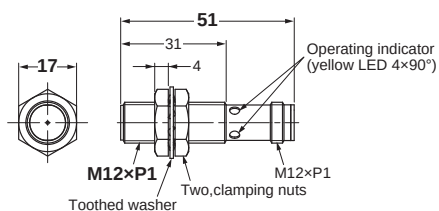
E2B-M12LN05-WP-□□/E2B-M12LN08-WP-□□



### Connector Models (Shielded)

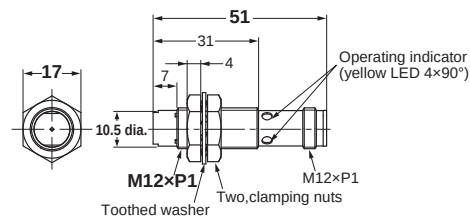
#### Short Body

E2B-M12KS02-M1-□□/E2B-M12KS04-M1-□□



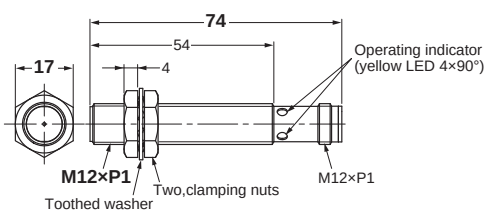
### Connector Models (Unshielded)

E2B-M12KN05-M1-□□/E2B-M12KN08-M1-□□

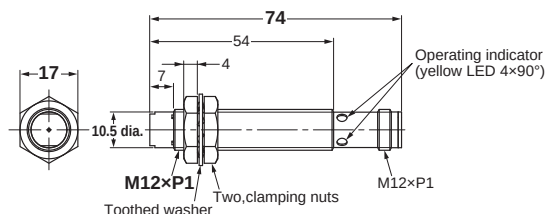


#### Long Body

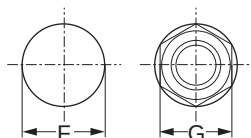
E2B-M12LS02-M1-□□/E2B-M12LS04-M1-□□



E2B-M12LN05-M1-□□/E2B-M12LN08-M1-□□



#### Mounting Hole Cutout Dimensions



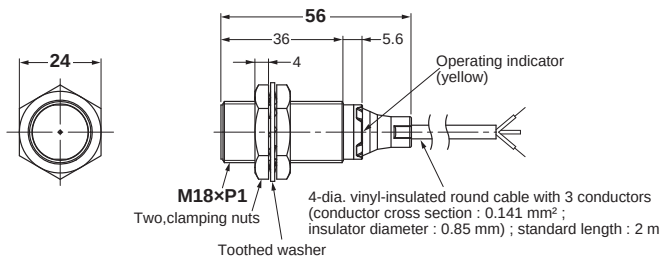
| External diameter of Proximity Sensor | Dimension F (mm)                       | Dimension G (mm) |
|---------------------------------------|----------------------------------------|------------------|
| M12                                   | 12.5 dia. <sup>+0.5</sup> <sub>0</sub> | 17               |

M18 Size

Pre-wired Models (Shielded)

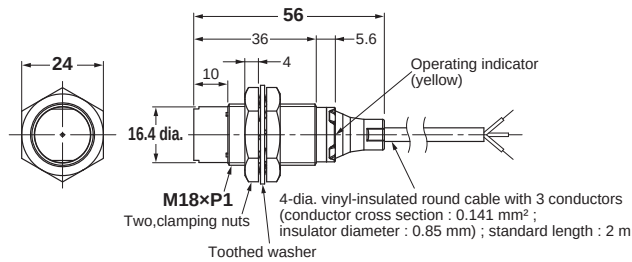
Short Body

E2B-M18KS05-WP-□□/E2B-M18KS08-WP-□□



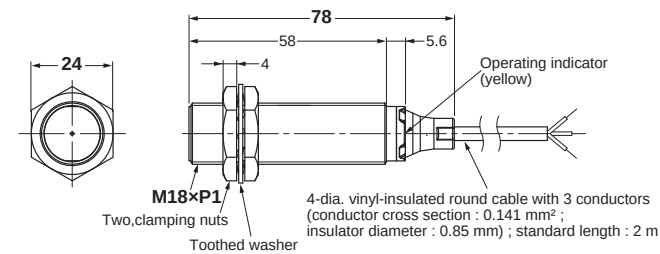
Pre-wired Models (Unshielded)

E2B-M18KN10-WP-□□/E2B-M18KN16-WP-□□

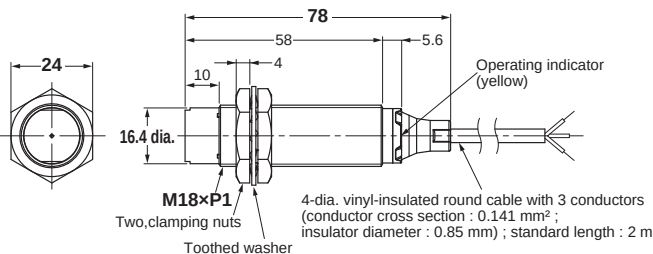


Long Body

E2B-M18LS05-WP-□□/E2B-M18LS08-WP-□□



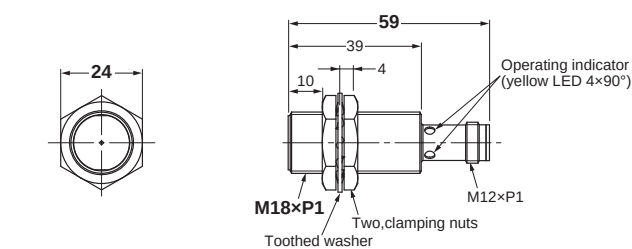
E2B-M18LN10-WP-□□/E2B-M18LN16-WP-□□



Connector Models (Shielded)

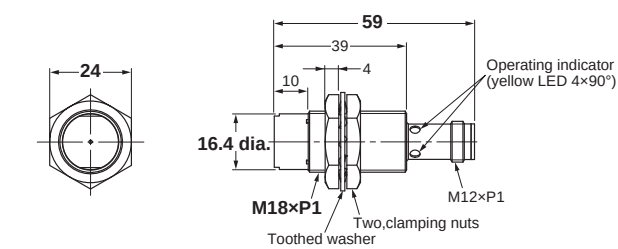
Short Body

E2B-M18KS05-M1-□□/E2B-M18KS08-M1-□□



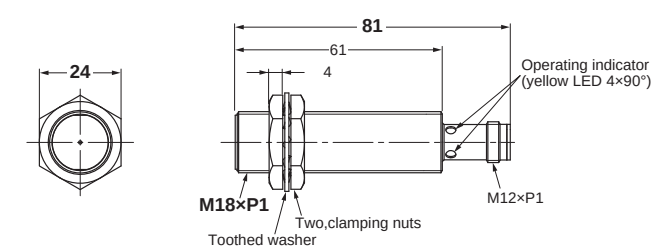
Connector Models (Unshielded)

E2B-M18KN10-M1-□□/E2B-M18KN16-M1-□□

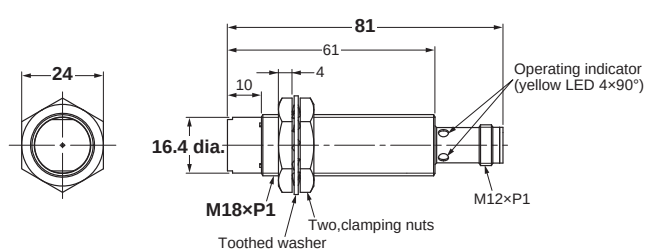


Long Body

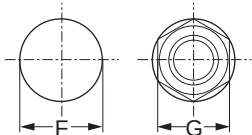
E2B-M18LS05-M1-□□/E2B-M18LS08-M1-□□



E2B-M18LN10-M1-□□/E2B-M18LN16-M1-□□



Mounting Hole Cutout Dimensions



| External diameter of Proximity Sensor | Dimension F (mm)                       | Dimension G (mm) |
|---------------------------------------|----------------------------------------|------------------|
| M18                                   | 18.5 dia. <sup>+0.5</sup> <sub>0</sub> | 24               |

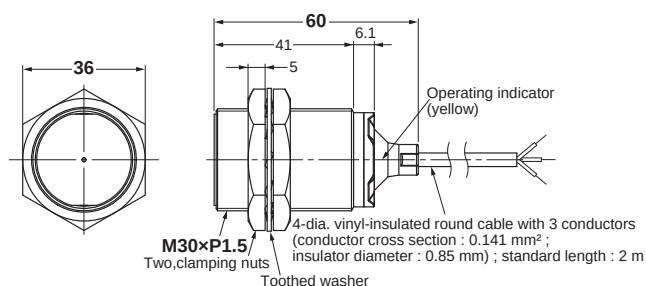


## M30 Size

### Pre-wired Models (Shielded)

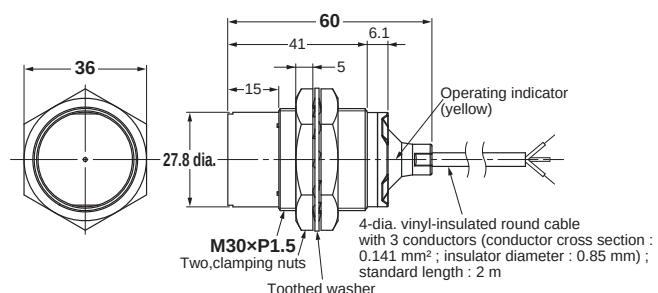
#### Short Body

E2B-M30KS10-WP-□□/E2B-M30KS15-WP-□□



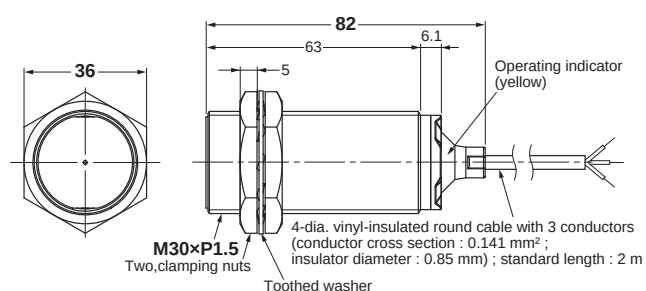
### Pre-wired Models (Unshielded)

E2B-M30KN20-WP-□□

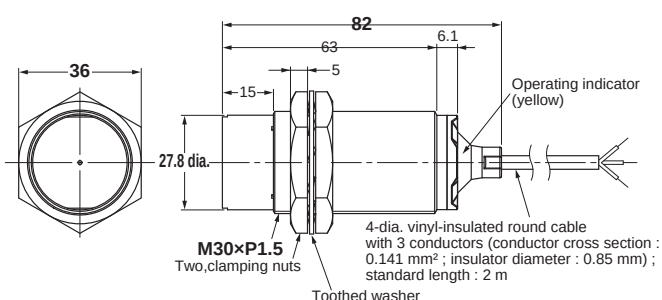


#### Long Body

E2B-M30LS10-WP-□□/E2B-M30LS15-WP-□□



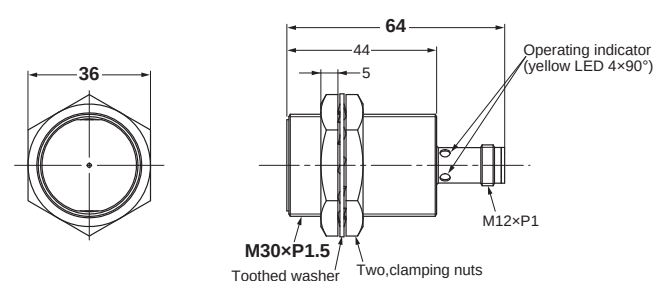
E2B-M30LN20-WP-□□/E2B-M30LN30-WP-□□



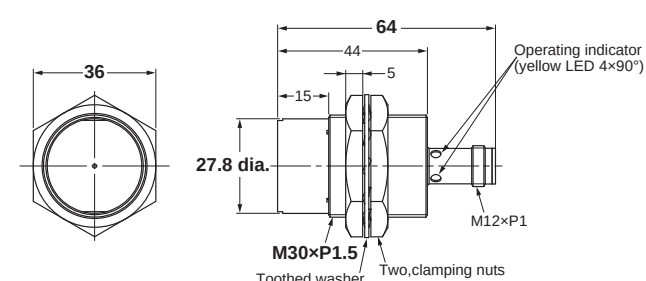
### Connector Models (Shielded)

#### Short Body

E2B-M30KS10-M1-□□/E2B-M30KS15-M1-□□

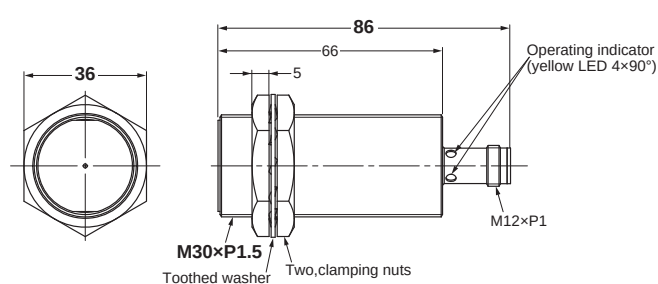


E2B-M30KN20-M1-□□

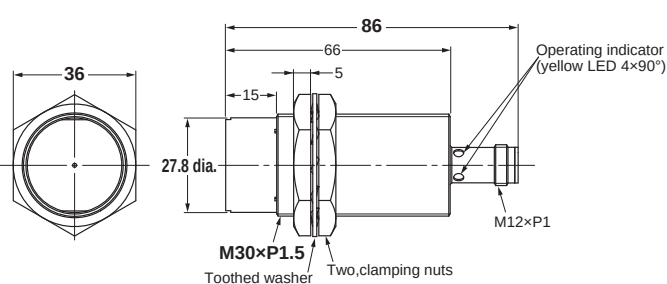


#### Long Body

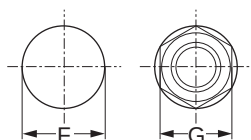
E2B-M30LS10-M1-□□/E2B-M30LS15-M1-□□



E2B-M30LN20-M1-□□/E2B-M30LN30-M1-□□



### Mounting Hole Cutout Dimensions



| External diameter of Proximity Sensor | Dimension F (mm)                       | Dimension G (mm) |
|---------------------------------------|----------------------------------------|------------------|
| M30                                   | 30.5 dia. <sup>+0.5</sup> <sub>0</sub> | 36               |

## Accessories (Order Separately)

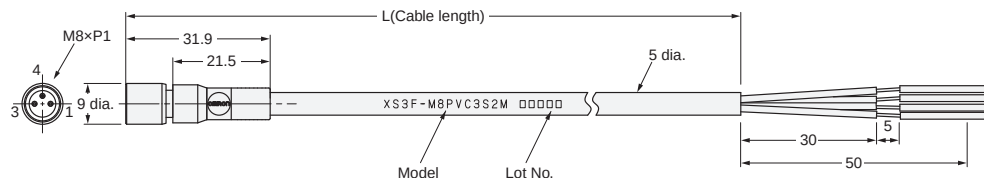
Sensor I/O Connectors  
M8 Connector (3 pin)

### PVC Type

(Unit: mm)

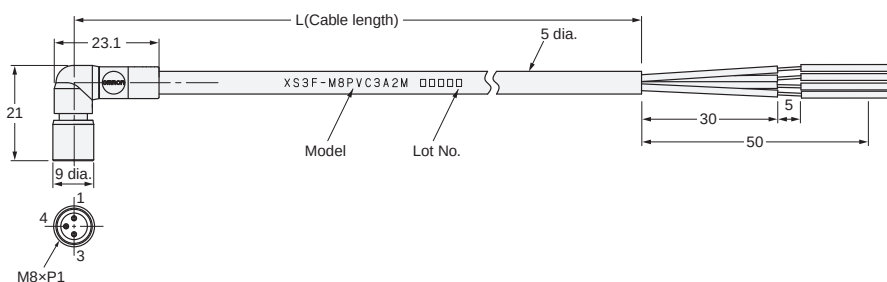
#### Straight

XS3F-M8PVC3S2M (L = 2 m)  
XS3F-M8PVC3S5M (L = 5 m)



#### Right-angle

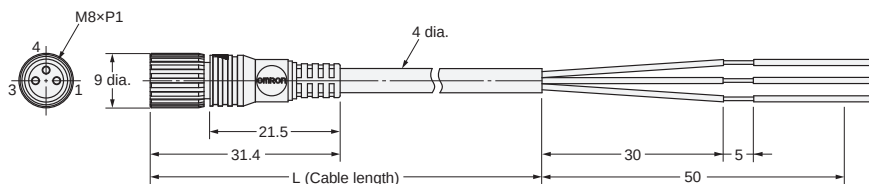
XS3F-M8PVC3A2M (L = 2 m)  
XS3F-M8PVC3A5M (L = 5 m)



### PVC Robot Type

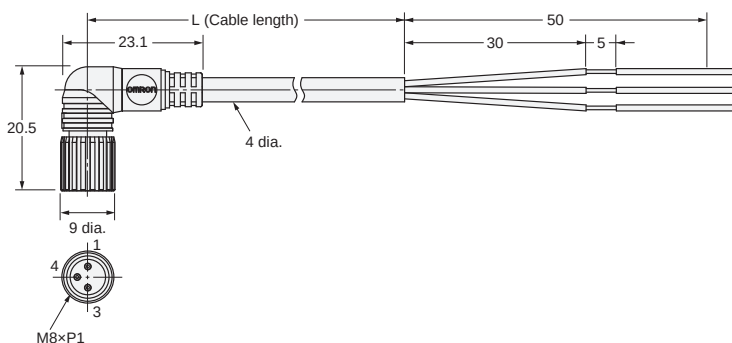
#### Straight

XS3F-M321-302-R (L = 2 m)  
XS3F-M321-305-R (L = 5 m)

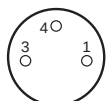


#### Right-angle

XS3F-M322-302-R (L = 2 m)  
XS3F-M322-305-R (L = 5 m)



### Pin arrangement



1-Brown  
3-Blue  
4-Black

## Sensor I/O Connectors

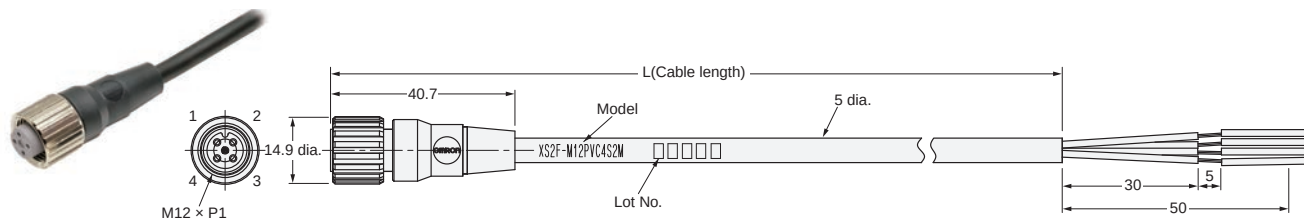
### M12 Connector (4 pin)

#### PVC Type

##### Straight

XS2F-M12PVC4S2M (L = 2 m)

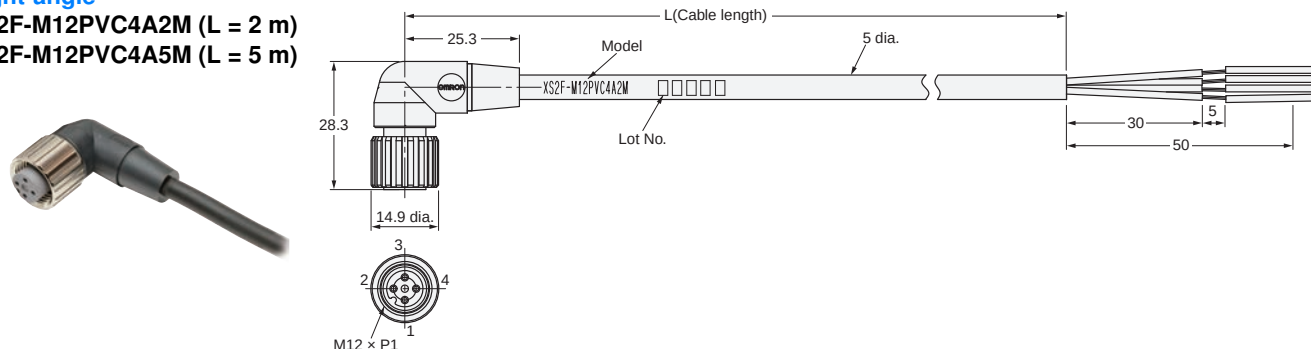
XS2F-M12PVC4S5M (L = 5 m)



##### Right-angle

XS2F-M12PVC4A2M (L = 2 m)

XS2F-M12PVC4A5M (L = 5 m)

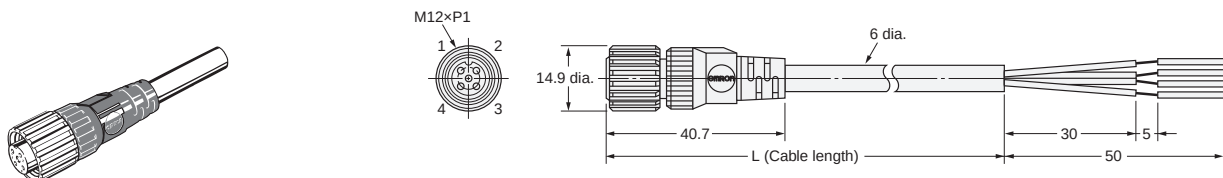


#### PVC Robot Type

##### Straight

XS2F-D421-D80-F (L = 2 m)

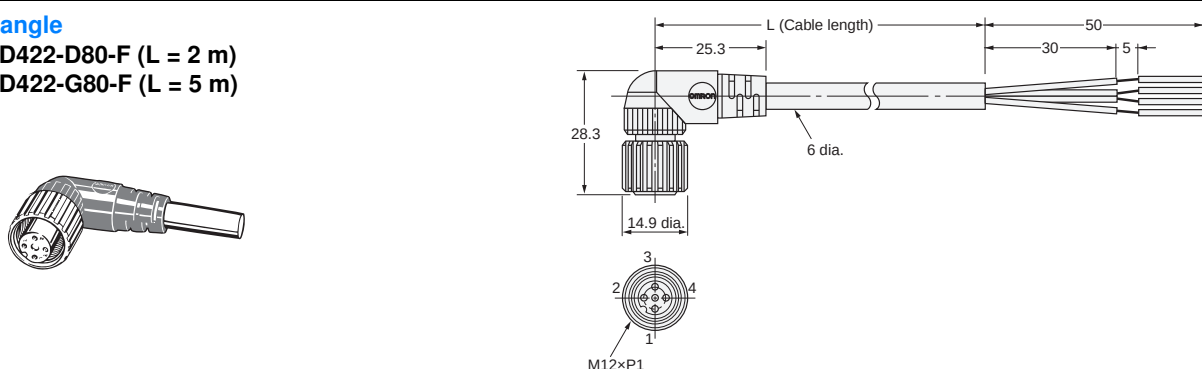
XS2F-D421-G80-F (L = 5 m)



##### Right-angle

XS2F-D422-D80-F (L = 2 m)

XS2F-D422-G80-F (L = 5 m)



#### Pin arrangement



1-Brown  
2-White  
3-Blue  
4-Black

# E2B

## Precautions

### WARNING

This product is not designed or rated for ensuring safety of persons. Do not use it for such purpose.



Never use this product with an AC power supply. Otherwise, explosion may result.



## Safety Precautions

### Load Short-circuit

Do not short-circuit the load, or the E2B may be damaged. The E2B's short-circuit protection function will be valid if the polarity of the supply voltage imposed is correct and within the rated voltage range.

## Correct Use

### Designing

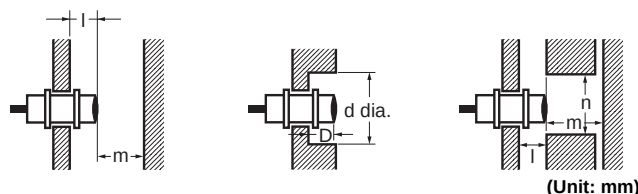
#### Power Reset Time

The Proximity Sensor is ready to operate within 100 ms after power is supplied. If power supplies are connected to the Proximity Sensor and load respectively, be sure to supply power to the Proximity Sensor before supplying power to the load.

#### Effects of Surrounding Metal

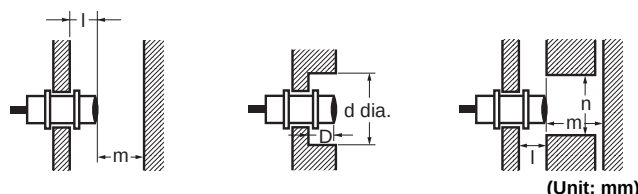
When mounting the proximity sensor within a metal panel, ensure that the clearances given in the Table1 are maintained. Failure to maintain these distance may cause deterioration in the performance of the sensor.

**Table 1**  
**Single Sensing Distance Type**  
**<Shielded>**



| Item | Size | M8  | M12 | M18 | M30 |
|------|------|-----|-----|-----|-----|
| l    |      | 0   | 0   | 0   | 0   |
| d    |      | 8   | 12  | 18  | 30  |
| D    |      | 0   | 0   | 0   | 0   |
| m    |      | 4.5 | 8   | 20  | 40  |
| n    |      | 12  | 18  | 27  | 45  |

**Double Sensing Distance Type**  
**<Shielded>**



| Item | Size | M8  | M12 | M18 | M30 |
|------|------|-----|-----|-----|-----|
| l    |      | 0   | 2.4 | 3.6 | 6   |
| d    |      | 8   | 18  | 27  | 45  |
| D    |      | 0   | 2.4 | 3.6 | 6   |
| m    |      | 4.5 | 12  | 24  | 45  |
| n    |      | 12  | 18  | 27  | 45  |

## Wiring

Be sure to wire the E2B and load correctly, otherwise it may be damaged.

### Connection with No Load

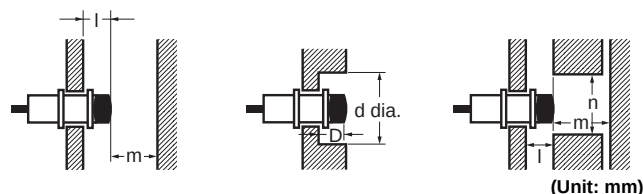
Be sure to insert loads when wiring. Make sure to connect a proper load to the E2B in operation, otherwise it may damage internal elements.

**Do not expose the product to flammable or explosive gases.**

**Do not disassemble, repair, or modify the product.**

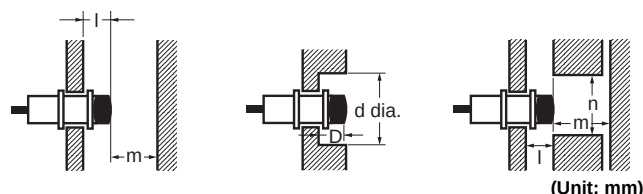
When provided with the UL Listing Mark, the E2B series with M1 or MC suffix shall be used with a Listed cable/connector assembly rated minimum 30V, minimum 200mA, in the final installation.

### <Unshielded>



| Item | Size | M8 | M12 | M18 | M30 |
|------|------|----|-----|-----|-----|
| l    |      | 6  | 15  | 22  | 30  |
| d    |      | 24 | 40  | 55  | 90  |
| D    |      | 6  | 15  | 22  | 30  |
| m    |      | 8  | 20  | 40  | 70  |
| n    |      | 24 | 36  | 54  | 90  |

### <Unshielded>



| Item | Size | M8 | M12 | M18 | M30 |
|------|------|----|-----|-----|-----|
| l    |      | 12 | 15  | 25  | 45  |
| d    |      | 24 | 40  | 70  | 140 |
| D    |      | 12 | 15  | 25  | 45  |
| m    |      | 8  | 20  | 48  | 90  |
| n    |      | 24 | 40  | 70  | 140 |

## Power OFF

The Proximity Sensor may output a pulse signal when it is turned OFF. Therefore, it is recommended that the load be turned OFF before turning OFF the Proximity Sensor.

## Power Supply Transformer

When using a DC power supply, make sure that the DC power supply has an insulated transformer. Do not use a DC power supply with an auto-transformer.

## Mutual Interference

When installing two or more proximity sensors face to face or side by side, ensure that the minimum distances given in the Table2 are maintained.

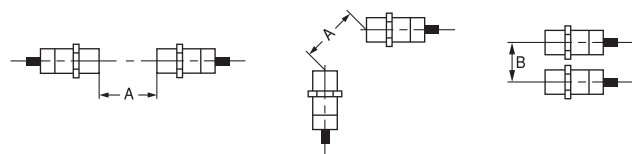


Table 2

Unit: (mm)

| Size             | M8       |         |            |         | M12      |         |            |         | M18      |         |            |         | M30      |         |            |         |
|------------------|----------|---------|------------|---------|----------|---------|------------|---------|----------|---------|------------|---------|----------|---------|------------|---------|
| Type             | Shielded |         | Unshielded |         | Shielded |         | Unshielded |         | Shielded |         | Unshielded |         | Shielded |         | Unshielded |         |
| Model<br>E2B-( ) | S08□S01  | S08□S02 | S08□N02    | S08□N04 | M12□S02  | M12□S04 | M12□N05    | M12□N08 | M18□S05  | M18□S08 | M18□N10    | M18□N16 | M30□S10  | M30□S15 | M30□N20    | M30□N30 |
| A                | 20       | 20      | 80         | 80      | 30       | 30      | 120        | 120     | 50       | 60      | 200        | 200     | 100      | 110     | 300        | 350     |
| B                | 15       | 15      | 60         | 60      | 20       | 20      | 100        | 100     | 35       | 35      | 110        | 120     | 70       | 90      | 200        | 300     |

## Wiring

### High-tension Lines

Wiring through Metal Conduit:

If there is a power or high-tension line near the cable of the Proximity Sensor, wire the cable through an independent metal conduit to prevent against Proximity Sensor damage or malfunctioning.

### Cable Extension

Standard cable length is less than 200 m.

The tractive force is 50 N.

## Mounting

Do not tighten the sensor mounting nuts with excessive force.

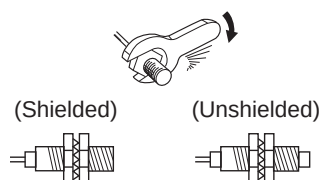


Table 3

| Size | Torque |
|------|--------|
| M8   | 7 N·m  |
| M12  | 12 N·m |
| M18  | 30 N·m |
| M30  | 50 N·m |

## Maintenance and Inspection

Periodically perform the following checks to ensure stable operation of the Proximity Sensor over a long period of time.

1. Check for mounting position, dislocation, looseness, or distortion of the Proximity Sensor and sensing objects.
2. Check for loose wiring and connections, improper contacts, and line breakage.
3. Check for attachment or accumulation of metal powder or dust.
4. Check for abnormal temperature conditions and other environmental conditions.
5. Check for proper lighting of indicators (for models with a set indicator.)

Never disassemble or repair the Sensor.

## Environment

### Water Resistivity

The Proximity Sensors are tested intensively on water resistance, but in order to ensure maximum performance and life expectancy avoid immersion in water and provide protection from rain or snow.

### Operating Environment

Ensure storage and operation of the Proximity Sensor within the given specifications.

### Inrush Current

A load that has a large inrush current (e.g., a lamp or motor) will damage the Proximity Sensor, in which case connect the load to the Proximity Sensor through a relay.

## <SUITABILITY FOR USE>

OMRON shall not be responsible for conformity with any standards, codes, or regulations that apply to the combination of the products in the customer's application or use of the products.

Take all necessary steps to determine the suitability of the product for the systems, machines, and equipment with which it will be used.

## <CHANGE IN SPECIFICATIONS>

Product specifications and accessories may be changed at any time based on improvements and other reasons. Consult with your OMRON representative at any time to confirm actual specifications of purchased product.

**READ AND UNDERSTAND THIS DOCUMENT**

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

**WARRANTY**

OMRON's exclusive warranty is that the products are free from defects in materials and workmanship for a period of one year (or other period if specified) from date of sale by OMRON.

OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, REGARDING NON-INFRINGEMENT, MERCHANTABILITY, OR FITNESS FOR PARTICULAR PURPOSE OF THE PRODUCTS. ANY BUYER OR USER ACKNOWLEDGES THAT THE BUYER OR USER ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE. OMRON DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED.

**LIMITATIONS OF LIABILITY**

OMRON SHALL NOT BE RESPONSIBLE FOR SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED ON CONTRACT, WARRANTY, NEGLIGENCE, OR STRICT LIABILITY.

In no event shall responsibility of OMRON for any act exceed the individual price of the product on which liability is asserted.

IN NO EVENT SHALL OMRON BE RESPONSIBLE FOR WARRANTY, REPAIR, OR OTHER CLAIMS REGARDING THE PRODUCTS UNLESS OMRON'S ANALYSIS CONFIRMS THAT THE PRODUCTS WERE PROPERLY HANDLED, STORED, INSTALLED, AND MAINTAINED AND NOT SUBJECT TO CONTAMINATION, ABUSE, MISUSE, OR INAPPROPRIATE MODIFICATION OR REPAIR.

**SUITABILITY FOR USE**

THE PRODUCTS CONTAINED IN THIS DOCUMENT ARE NOT SAFETY RATED. THEY ARE NOT DESIGNED OR RATED FOR ENSURING SAFETY OF PERSONS, AND SHOULD NOT BE RELIED UPON AS A SAFETY COMPONENT OR PROTECTIVE DEVICE FOR SUCH PURPOSES. Please refer to separate catalogs for OMRON's safety rated products.

OMRON shall not be responsible for conformity with any standards, codes, or regulations that apply to the combination of products in the customer's application or use of the product.

At the customer's request, OMRON will provide applicable third party certification documents identifying ratings and limitations of use that apply to the products. This information by itself is not sufficient for a complete determination of the suitability of the products in combination with the end product, machine, system, or other application or use.

The following are some examples of applications for which particular attention must be given. This is not intended to be an exhaustive list of all possible uses of the products, nor is it intended to imply that the uses listed may be suitable for the products:

- Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this document.
- Nuclear energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
- Systems, machines, and equipment that could present a risk to life or property.

Please know and observe all prohibitions of use applicable to the products.

NEVER USE THE PRODUCTS FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

**PERFORMANCE DATA**

Performance data given in this document is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of OMRON's test conditions, and the users must correlate it to actual application requirements. Actual performance is subject to the OMRON Warranty and Limitations of Liability.

**CHANGE IN SPECIFICATIONS**

Product specifications and accessories may be changed at any time based on improvements and other reasons.

It is our practice to change model numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the product may be changed without any notice. When in doubt, special model numbers may be assigned to fix or establish key specifications for your application on your request. Please consult with your OMRON representative at any time to confirm actual specifications of purchased products.

**DIMENSIONS AND WEIGHTS**

Dimensions and weights are nominal and are not to be used for manufacturing purposes, even when tolerances are shown.

**ERRORS AND OMISSIONS**

The information in this document has been carefully checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical, or proofreading errors, or omissions.

**PROGRAMMABLE PRODUCTS**

OMRON shall not be responsible for the user's programming of a programmable product, or any consequence thereof.

**COPYRIGHT AND COPY PERMISSION**

This document shall not be copied for sales or promotions without permission.

This document is protected by copyright and is intended solely for use in conjunction with the product. Please notify us before copying or reproducing this document in any manner, for any other purpose. If copying or transmitting this document to another, please copy or transmit it in its entirety.

**ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.**

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

**OMRON Corporation** Industrial Automation Company  
Tokyo, JAPAN

Contact: [www.ia.omron.com](http://www.ia.omron.com)

**Regional Headquarters**  
**OMRON EUROPE B.V.**

**Sensor Business Unit**  
Carl-Benz-Str. 4, D-71154 Nufringen, Germany  
Tel: (49) 7032-811-0/Fax: (49) 7032-811-199

**OMRON ASIA PACIFIC PTE. LTD.**  
No. 438A Alexandra Road # 05-05/08 (Lobby 2),  
Alexandra Technopark,  
Singapore 119967  
Tel: (65) 6835-3011/Fax: (65) 6835-2711

**OMRON ELECTRONICS LLC**

One Commerce Drive Schaumburg,  
IL 60173-5302 U.S.A.  
Tel: (1) 847-843-7900/Fax: (1) 847-843-7787

**OMRON (CHINA) CO., LTD.**

Room 2211, Bank of China Tower,  
200 Yin Cheng Zhong Road,  
PuDong New Area, Shanghai, 200120, China  
Tel: (86) 21-5037-2222/Fax: (86) 21-5037-2200

**Authorized Distributor:**

© OMRON Corporation 2013 All Rights Reserved.  
In the interest of product improvement,  
specifications are subject to change without notice.

CSM\_1\_5\_0314  
Cat. No. **D116-E1-02**

Printed in Japan  
0314(0413)



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.