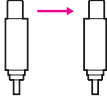
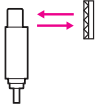
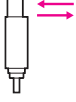




## Sensors (E3RA Plastic housing) [Refer to Dimensions on page 16.]

 Red light

| Sensor type                                                                                                                 | Sensing distance                                                                                             | Connection method | Model                                                                        |                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|
|                                                                                                                             |                                                                                                              |                   | NPN output                                                                   | PNP output                                                                   |
| Through-beam *1.<br>                       |  15 m                       | pre-wired         | <b>set E3RA-TN11 2M</b><br>Emitter E3RA-TN11-L 2M<br>Receiver E3RA-TN11-D 2M | <b>set E3RA-TP11 2M</b><br>Emitter E3RA-TP11-L 2M<br>Receiver E3RA-TP11-D 2M |
|                                                                                                                             |                                                                                                              | M12 connector     | <b>set E3RA-TN21</b><br>Emitter E3RA-TN21-L<br>Receiver E3RA-TN21-D          | <b>set E3RA-TP21</b><br>Emitter E3RA-TP21-L<br>Receiver E3RA-TP21-D          |
| Retro-reflective with MSR function *2.<br> |  0.1 to 3 m<br>with E39-R1S | pre-wired         | <b>E3RA-RN11 2M</b>                                                          | <b>E3RA-RP11 2M</b>                                                          |
|                                                                                                                             |                                                                                                              | M12 connector     | <b>E3RA-RN21</b>                                                             | <b>E3RA-RP21</b>                                                             |
| Diffuse-reflective<br>                     |  100 mm                     | pre-wired         | <b>E3RA-DN11 2M</b>                                                          | <b>E3RA-DP11 2M</b>                                                          |
|                                                                                                                             |                                                                                                              | M12 connector     | <b>E3RA-DN21</b>                                                             | <b>E3RA-DP21</b>                                                             |
|                                                                                                                             |  300 mm                     | pre-wired         | <b>E3RA-DN12 2M</b>                                                          | <b>E3RA-DP12 2M</b>                                                          |
|                                                                                                                             |                                                                                                              | M12 connector     | <b>E3RA-DN22</b>                                                             | <b>E3RA-DP22</b>                                                             |
|                                                                                                                             |  700 mm                     | pre-wired         | <b>E3RA-DN13 2M</b>                                                          | <b>E3RA-DP13 2M</b>                                                          |
|                                                                                                                             |                                                                                                              | M12 connector     | <b>E3RA-DN23</b>                                                             | <b>E3RA-DP23</b>                                                             |

\*1. The set type includes the emitter and receiver.

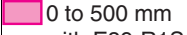
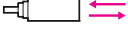
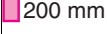
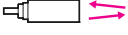
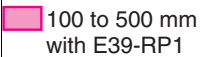
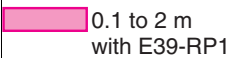
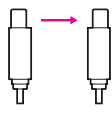
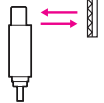
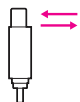
\*2. The Reflector is sold separately. Select the Reflector model most suited to the application.

# E3FA/E3RA/E3FB/E3RB



## Sensors (E3FB/E3RB Metal housing) [Refer to Dimensions on page 17.]

 Red light

| Sensor type                                                                                                                             | Sensing distance                                                                                                  | Connection method | Model                                                                 |                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|
|                                                                                                                                         |                                                                                                                   |                   | NPN output                                                            | PNP output                                                            |
| Through-beam *1.<br>                                   |  20 m                            | pre-wired         | set E3FB-TN11 2M<br>Emitter E3FB-TN11-L 2M<br>Receiver E3FB-TN11-D 2M | set E3FB-TP11 2M<br>Emitter E3FB-TP11-L 2M<br>Receiver E3FB-TP11-D 2M |
|                                                                                                                                         |                                                                                                                   | M12 connector     | set E3FB-TN21<br>Emitter E3FB-TN21-L<br>Receiver E3FB-TN21-D          | set E3FB-TP21<br>Emitter E3FB-TP21-L<br>Receiver E3FB-TP21-D          |
| Retro-reflective with MSR function *2.<br>             |  0.1 to 4 m<br>with E39-R1S      | pre-wired         | E3FB-RN11 2M                                                          | E3FB-RP11 2M                                                          |
|                                                                                                                                         |                                                                                                                   | M12 connector     | E3FB-RN21                                                             | E3FB-RP21                                                             |
| Coaxial Retro-reflective with MSR function *2.<br>     |  0 to 500 mm<br>with E39-R1S     | pre-wired         | E3FB-RN12 2M                                                          | E3FB-RP12 2M                                                          |
|                                                                                                                                         |                                                                                                                   | M12 connector     | E3FB-RN22                                                             | E3FB-RP22                                                             |
| Diffuse-reflective<br>                                 |  100 mm                          | pre-wired         | E3FB-DN11 2M                                                          | E3FB-DP11 2M                                                          |
|                                                                                                                                         |                                                                                                                   | M12 connector     | E3FB-DN21                                                             | E3FB-DP21                                                             |
|                                                                                                                                         |  300 mm                          | pre-wired         | E3FB-DN12 2M                                                          | E3FB-DP12 2M                                                          |
|                                                                                                                                         |                                                                                                                   | M12 connector     | E3FB-DN22                                                             | E3FB-DP22                                                             |
|                                                                                                                                         |  1 m                            | pre-wired         | E3FB-DN13 2M                                                          | E3FB-DP13 2M                                                          |
|                                                                                                                                         |                                                                                                                   | M12 connector     | E3FB-DN23                                                             | E3FB-DP23                                                             |
| BGS (background suppression)<br>                     |  100 mm                        | pre-wired         | E3FB-LN11 2M                                                          | E3FB-LP11 2M                                                          |
|                                                                                                                                         |                                                                                                                   | M12 connector     | E3FB-LN21                                                             | E3FB-LP21                                                             |
|                                                                                                                                         |  200 mm                        | pre-wired         | E3FB-LN12 2M                                                          | E3FB-LP12 2M                                                          |
|                                                                                                                                         |                                                                                                                   | M12 connector     | E3FB-LN22                                                             | E3FB-LP22                                                             |
| Limited distance reflective<br>                      |  10 to 50 mm                   | pre-wired         | E3FB-VN11 2M                                                          | E3FB-VP11 2M                                                          |
|                                                                                                                                         |                                                                                                                   | M12 connector     | E3FB-VN21                                                             | E3FB-VP21                                                             |
| Transparent detected with P-opaqing function *2.<br> |  100 to 500 mm<br>with E39-RP1 | pre-wired         | E3FB-BN11 2M                                                          | E3FB-BP11 2M                                                          |
|                                                                                                                                         |                                                                                                                   | M12 connector     | E3FB-BN21                                                             | E3FB-BP21                                                             |
| Transparent detected with P-opaqing function *2.<br> |  0.1 to 2 m<br>with E39-RP1    | pre-wired         | E3FB-BN12 2M                                                          | E3FB-BP12 2M                                                          |
|                                                                                                                                         |                                                                                                                   | M12 connector     | E3FB-BN22                                                             | E3FB-BP22                                                             |
| Through-beam *1.<br>                                 |  15 m                          | pre-wired         | set E3RB-TN11 2M<br>Emitter E3RB-TN11-L 2M<br>Receiver E3RB-TN11-D 2M | set E3RB-TP11 2M<br>Emitter E3RB-TP11-L 2M<br>Receiver E3RB-TP11-D 2M |
|                                                                                                                                         |                                                                                                                   | M12 connector     | set E3RB-TN21<br>Emitter E3RB-TN21-L<br>Receiver E3RB-TN21-D          | set E3RB-TP21<br>Emitter E3RB-TP21-L<br>Receiver E3RB-TP21-D          |
| Retro-reflective with MSR function *2.<br>           |  0.1 to 3 m<br>with E39-R1S    | pre-wired         | E3RB-RN11 2M                                                          | E3RB-RP11 2M                                                          |
|                                                                                                                                         |                                                                                                                   | M12 connector     | E3RB-RN21                                                             | E3RB-RP21                                                             |
| Diffuse-reflective<br>                               |  100 mm                        | pre-wired         | E3RB-DN11 2M                                                          | E3RB-DP11 2M                                                          |
|                                                                                                                                         |                                                                                                                   | M12 connector     | E3RB-DN21                                                             | E3RB-DP21                                                             |
|                                                                                                                                         |  300 mm                        | pre-wired         | E3RB-DN12 2M                                                          | E3RB-DP12 2M                                                          |
|                                                                                                                                         |                                                                                                                   | M12 connector     | E3RB-DN22                                                             | E3RB-DP22                                                             |
|                                                                                                                                         |  700 mm                        | pre-wired         | E3RB-DN13 2M                                                          | E3RB-DP13 2M                                                          |
|                                                                                                                                         |                                                                                                                   | M12 connector     | E3RB-DN23                                                             | E3RB-DP23                                                             |

\*1. The set type includes the emitter and receiver.

\*2. The Reflector is sold separately. Select the Reflector model most suited to the application.