IO-Link Photoelectric Sensor
E3Z-□-IL□

IO-Link Makes Sensor Level Information Visible and Solves the Three Major Issues at Manufacturing Sites!
Standard Photoelectric Sensor.

- Downtime can be reduced.
  Notifies you of faulty parts and such phenomena in the Sensor in real time.
- The frequency of sudden failure can be decreased.
  The light incident level monitor prevents false detection before it happens.
- The efficiency of changeover can be improved.
  The batch check for individual sensor IDs significantly decreases commissioning time.
- Three types of sensing methods and three types of connection methods are available.

Ordering Information

<table>
<thead>
<tr>
<th>Sensing method</th>
<th>Appearance</th>
<th>Connection method</th>
<th>Sensing distance</th>
<th>Baud rate</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Through-beam (Emitter + Receiver) *3</td>
<td></td>
<td>Pre-wired (2 m)</td>
<td>15 m</td>
<td>COM2</td>
<td>E3Z-T81-IL2 2M</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pre-wired M12 connector</td>
<td></td>
<td></td>
<td>E3Z-T81-IL3 2M</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Standard M8 connector</td>
<td></td>
<td></td>
<td>E3Z-T86-IL2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pre-wired (2 m)</td>
<td></td>
<td></td>
<td>E3Z-T86-IL3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pre-wired M12 connector</td>
<td></td>
<td></td>
<td>E3Z-R81-IL2 2M</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Standard M8 connector</td>
<td></td>
<td></td>
<td>E3Z-R81-IL3 2M</td>
</tr>
<tr>
<td>Retro-reflective with MSR function</td>
<td></td>
<td>Pre-wired (2 m)</td>
<td>4 m (100 mm)</td>
<td>COM2</td>
<td>E3Z-R81-IL2 2M</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pre-wired M12 connector</td>
<td></td>
<td></td>
<td>E3Z-R81-IL3 2M</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Standard M8 connector</td>
<td></td>
<td></td>
<td>E3Z-R86-IL2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pre-wired (2 m)</td>
<td></td>
<td></td>
<td>E3Z-R86-IL3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pre-wired M12 connector</td>
<td></td>
<td></td>
<td>E3Z-R86-IL2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Standard M8 connector</td>
<td></td>
<td></td>
<td>E3Z-R86-IL3</td>
</tr>
</tbody>
</table>

Note: Please contact your OMRON sales representative regarding the IO-Link setup file (IODD file).
*1. The Reflector is sold separately. Select the Reflector model most suited to the application.
*2. The sensing distance specified is possible when the E39-R1S is used. Values in parentheses indicate the minimum required distance between the Sensor and Reflector.
*3. Through-beam Sensors are normally sold in sets that include both the Emitter and Receiver.

Be sure to read Safety Precautions on page 9.

For the most recent information on models that have been certified for safety standards, refer to your OMRON website.
Note: Please contact your OMRON sales representative regarding the IO-Link setup file (IODD file).

Accessories (Sold Separately)

Slit (A Slit is not provided with Through-beam Sensors) Order a Slit separately if required.

<table>
<thead>
<tr>
<th>Slit width</th>
<th>Sensing distance</th>
<th>Minimum detectable object (Reference value)</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5-mm dia.</td>
<td>50 mm</td>
<td>0.2-mm dia.</td>
<td>E39-S65A</td>
</tr>
<tr>
<td>1-mm dia.</td>
<td>200 mm</td>
<td>0.4-mm dia.</td>
<td>E39-S65B</td>
</tr>
<tr>
<td>2-mm dia.</td>
<td>800 mm</td>
<td>0.7-mm dia.</td>
<td>E39-S65C</td>
</tr>
<tr>
<td>0.5 x 10 mm</td>
<td>1 mm</td>
<td>0.2-mm dia.</td>
<td>E39-S65D</td>
</tr>
<tr>
<td>1 x 10 mm</td>
<td>2.2 m</td>
<td>0.5-mm dia.</td>
<td>E39-S65E</td>
</tr>
<tr>
<td>2 x 10 mm</td>
<td>5 mm</td>
<td>0.8-mm dia.</td>
<td>E39-S65F</td>
</tr>
</tbody>
</table>

Reflectors (Reflector required for Retroreflective Sensors) A Reflector is not provided with the Sensor. Be sure to order a Reflector separately.

<table>
<thead>
<tr>
<th>Name</th>
<th>Sensing distance</th>
<th>Model</th>
<th>Quantity</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reflector</td>
<td>3 m (100 mm)</td>
<td>E39-R</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4 m (100 mm)</td>
<td>E39-R1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5 m (100 mm)</td>
<td>E39-R1S</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.5 m (100 mm)</td>
<td>E39-R2</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3.5 m (100 mm)</td>
<td>E39-R9</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 m (100 mm)</td>
<td>E39-R1K</td>
<td>1</td>
<td>Reflectors are not provided with Retro-reflective models.</td>
</tr>
<tr>
<td>Fog Preventive Coating</td>
<td>1.5 m (50 mm)</td>
<td>E39-R3</td>
<td>1</td>
<td>The MSR function of the E3Z-R is enabled.</td>
</tr>
<tr>
<td>Small Reflector</td>
<td>1.5 m (50 mm)</td>
<td>E39-R3</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Tape Reflector</td>
<td>700 mm (150 mm)</td>
<td>E39-RS1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.1 m (150 mm)</td>
<td>E39-RS2</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1.4 m (150 mm)</td>
<td>E39-RS3</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Note: Please contact your OMRON sales representative regarding the IO-Link setup file (IODD file).

1. If you use the Reflector at any distance other than the rated distance, make sure that the stability indicator lights properly when you install the Sensor.

* Values in parenthesis indicate the minimum required distance between the Sensor and Reflector.
### Mounting Brackets
A Mounting Bracket is not enclosed with the Sensor. Order a Mounting Bracket separately if required.

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Model (material)</th>
<th>Quantity</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>E39-L153 (SUS304)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>E39-L104 (SUS304)</td>
<td>1</td>
<td>Mounting Brackets</td>
</tr>
<tr>
<td></td>
<td>E39-L43 (SUS304)</td>
<td>1</td>
<td>Horizontal Mounting Brackets</td>
</tr>
<tr>
<td></td>
<td>E39-L142 (SUS304)</td>
<td>1</td>
<td>Horizontal Protective Cover Bracket</td>
</tr>
<tr>
<td></td>
<td>E39-L44 (SUS304)</td>
<td>1</td>
<td>Rear Mounting Bracket</td>
</tr>
<tr>
<td></td>
<td>E39-L98 (SUS304)</td>
<td>1</td>
<td>Metal Protective Cover Bracket</td>
</tr>
<tr>
<td></td>
<td>E39-L150 (SUS304)</td>
<td>1</td>
<td>(Sensor adjuster)</td>
</tr>
<tr>
<td></td>
<td>E39-L151 (SUS304)</td>
<td>1</td>
<td>Easily mounted to the aluminum frame rails of conveyors and easily adjusted.</td>
</tr>
<tr>
<td></td>
<td>E39-L144 (SUS304)</td>
<td>1</td>
<td>For left to right adjustment</td>
</tr>
</tbody>
</table>

**Note:**
1. Cannot be used for Standard Connector models with mounting surface on the bottom. In that case, use Pre-wired Connector models.
2. Cannot be used for Standard Connector models.

### Sensor I/O Connectors
(Models for Connectors and Pre-wired Connectors: A Connector is not provided with the Sensor. Be sure to order a Connector separately.)

<table>
<thead>
<tr>
<th>Size</th>
<th>Type</th>
<th>Appearance</th>
<th>Cable length</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>M12</td>
<td>Socket on one cable end</td>
<td>Smartclick connector</td>
<td>2 m</td>
<td>XS5F-D421-D80-F</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Straight *2</td>
<td>5 m</td>
<td>XS5F-D421-G80-F</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Smartclick connector</td>
<td>2 m</td>
<td>XS5F-D422-D80-F</td>
</tr>
<tr>
<td></td>
<td></td>
<td>L-shape *2 *3</td>
<td>5 m</td>
<td>XS5F-D422-G80-F</td>
</tr>
<tr>
<td>M12</td>
<td>Socket and plug on cable ends</td>
<td>Smartclick connector</td>
<td>2 m</td>
<td>XS5W-D421-D81-F</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Straight/ Straight *2</td>
<td>5 m</td>
<td>XS5W-D421-G81-F</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Smartclick connector</td>
<td>2 m</td>
<td>XS5W-D422-D81-F</td>
</tr>
<tr>
<td></td>
<td></td>
<td>L-shape/L-shape *2 *3</td>
<td>5 m</td>
<td>XS5W-D422-G81-F</td>
</tr>
<tr>
<td>M8</td>
<td>Socket on one cable end</td>
<td>Straight *3</td>
<td>2 m</td>
<td>XS3F-M421-402-A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>L-shape *3 *4</td>
<td>5 m</td>
<td>XS3F-M421-405-A</td>
</tr>
<tr>
<td>M8 socket/</td>
<td>Socket and plug on cable ends</td>
<td>M8-M12 (Smartclick)</td>
<td>0.2 m</td>
<td>XS3W-M42C-4C2-A</td>
</tr>
<tr>
<td>M12 plug</td>
<td></td>
<td>conversion cable *2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Note:**
1. Cannot be used for Standard Connector models with mounting surface on the bottom. In that case, use Pre-wired Connector models.
2. Cannot be used for Standard Connector models.
## IO-Link Model

| Model Item | Sensing distance | Spot diameter (reference value) | Standard sensing object | Minimum detectable object (reference value) | Differential travel (representative example) | Directional angle | Light source (wavelength) | Power supply voltage | Current consumption | Control output | Indicators | Protection circuits | Response time | Sensitivity adjustment | Ambient illumination (Receiver side) | Ambient temperature range | Ambient humidity range | Insulation resistance | Dielectric strength | Vibration resistance | Shock resistance | Degree of protection | Connection method | Weight (packed state) | Material | Main IO-Link functions | Communication specifications | Accessories |
|------------|------------------|---------------------------------|-------------------------|---------------------------------------------|---------------------------------------------|------------------|-------------------------|-------------------|---------------------|----------------|------------|-----------------|----------------|-------------------|----------------|------------------|------------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|----------------|----------------|
| Pre-wired E3Z-T81-IL | 15 m | 2.5 dia. and sensing distance of 90 mm | Opaque: 12-mm dia. min. | 0.1 mm (copper wire) | Both emitter and receiver: 3 to 15° | 2 to 10° | Infrared LED (870 nm) | 10 to 30 VDC (including 10% ripple (p-p)) | 50 mA max. (Emitter: 25 mA max., Receiver: 25 mA max.) | Load power supply voltage: 30 VDC max., Load current: 100 mA max. | In the Standard I/O mode (SIO mode): Operation indicator (orange, lit) and stability indicator (green, lit) | Reversed power supply polarity protection, output short-circuit protection, reversed output polarity protection, and mutual interference prevention | Operate or reset: 1 ms max. | Sensitivity adjuster / IO-Link communications | Incandescent lamp: 3,000 lx max. | Operating: -25 to 55°C (with no icing or condensation) | Operating: 35% to 85%, Storage: 35% to 95% (with no condensation) | 20 MΩ min. at 500 VDC | 1,000 VAC, 50/60 Hz for 1 min | Destruction: 10 to 55 Hz, 1.5 mm double amplitude for 2 hours each in X, Y, and Z directions | 500 m/s² 3 times each in X, Y, and Z directions | IEC 60529 IP67 | Pre-wired cable (standard cable length 2 m), M12 pre-wired connector (standard cable length 0.3 m), M8 connector | Pre-wired cable (2 m) | Approx. 120 g | Polybutylene terephthalate (PBT) | Operation mode switching between Light ON and Dark ON, setup of the instability detection level for light receiving and non-light receiving, timer function of the control output and timer time selecting, instability output (IO-Link mode) ON delay time selecting, setup of a teaching level and execution of teaching, setup of light receiving sensitivity level, monitor output, operating hours read-out, and initial reset | Ver 1.1 | -IL3: COM3 (230.4 kbps), -IL2: COM2 (38.4 kbps) | PD size: 2 bytes, OD size: 1 byte (M-sequence type: TYPE_2_2) | Instruction manual (Neither Reflectors nor Mounting Brackets are provided with any of the above models.) |

* Values in parentheses indicate the minimum required distance between the Sensor and Reflector.
Engineering Data (Reference Value)

Parallel Operating Range
Through-beam Models
E3Z-T8-IL

Through-beam Models
E3Z-T8-IL and Slit
(A Slit is mounted to the Emitter and Receiver.)

Retro-reflective Models
E3Z-R8-IL and Reflector

Operating Range
Diffuse-reflective Models
E3Z-D8-IL

Narrow-beam Reflective Models
E3Z-L8-IL

Monitor Output vs. Sensing Distance
Through-beam Models
E3Z-T8-IL

Retro-reflective Models
E3Z-R8-IL and E39-R1 Reflector

Sensing object: 300 × 300 mm white paper

Sensitivity adjuster: 1/2
Sensitivity adjuster: MAX
Sensitivity adjuster: 1/3

Monitor Output

Distance X (m)
Distance Y (mm)
Distance X (mm)
Distance Y (mm)
Distance X (m)
Distance Y (mm)
Distance (m)
Distance (m)
Monitor Output vs. Sensing Distance

Diffuse-reflective Models
E3Z-D8-IL

Narrow-beam Reflective Models
E3Z-L8-IL

Sensing Object Size vs. Sensing Distance

Diffuse-reflective Models
E3Z-D8-IL

Narrow-beam Reflective Models
E3Z-L8-IL

Spot Diameter vs. Sensing Distance

Narrow-beam Reflective Models
E3Z-L8-IL

Differential Travel vs. Sensing Distance

Narrow-beam Reflective Models
E3Z-L8-IL
**I/O Circuit Diagrams**

### Reflective / Receiver of Through-beam Model

**E3Z-T81-D-M1TJ-IL**

- **When using as a general sensor**
  - Output circuit
    - Connector Pin Arrangement
      - Pre-wired M12 connector
        - E3Z-T81-M1TJ-IL
  - Sensor
    - Photocell (Green)
      - ON: Present
      - OFF: Not present

- **When using the Sensor connected to IO-Link Master Unit**
  - Connector Pin Arrangement
    - Standard M8 connector
      - E3Z-T81-M1TJ-IL

**Note:** Pins 2 is not used.

### Emitter of Through-beam Model

**E3Z-T86-L-IL**

- **When using as a general sensor**
  - Output circuit
    - Connector Pin Arrangement
      - Standard M8 connector
        - E3Z-T86-L-IL

- **When using the Sensor connected to IO-Link Master Unit**
  - Connector Pin Arrangement
    - E3Z-T81-M1TJ-IL

**Note:** Pins 2 is not used.

---

### Timing Chart

<table>
<thead>
<tr>
<th>Output mode</th>
<th>Operation mode</th>
<th>Stable zone</th>
<th>Unstable zone</th>
<th>Stable zone</th>
</tr>
</thead>
<tbody>
<tr>
<td>L ON</td>
<td>Standard I/O mode</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D ON</td>
<td>IO-Link mode</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*1. The operation mode can be changed by the IO-Link communications.

*2. The timer function can be set up using the IO-Link communications for control output 1 and 2 separately. (It is able to select ON delay, OFF delay, or one-shot function and select a timer time of 1 to 4000 ms (T).)

*3. In the IO-Link mode, if the ON/OFF speed of the sensor is slow, high-speed response of 1 ms or less can be realized using control output 2 as a sensor.

*4. The judgment time for the instability detection diagnosis can be selected using the IO-Link communications. (For the ON delay timer function to detect instability, the setting can be selected from 0 (invalid), 10, 50, 100, 300, 500, or 1000 ms.)

*5. The judgment condition for the light receiving/non-light receiving instability detection function can be selected using the IO-Link communications. (Setting of light receiving instability detection threshold: 50%/40%/30%/20%/10%, setting of non-light receiving instability detection threshold: 70%/50%)

**Note:** Πλησον χοντατ σου ΟΜΡΟΝ σαλες μητρεντια τερματικα μητρεντια μετατηριε τα δεδομα.
Plugs (Sensor I/O Connectors)

M8 connector

Through-beam Models (Emitter)

Pin arrangement

<table>
<thead>
<tr>
<th>Classification</th>
<th>Wire color</th>
<th>Connector pin No.</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC</td>
<td>Brown</td>
<td>1</td>
<td>Power supply (+V)</td>
</tr>
<tr>
<td></td>
<td>White</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Blue</td>
<td>3</td>
<td>Power supply (0 V)</td>
</tr>
<tr>
<td></td>
<td>Black</td>
<td>4</td>
<td>Output C/O</td>
</tr>
</tbody>
</table>

Note: Pins 2 is not used.

Through-beam Models (Receiver)

Retro-reflective Models

Diffuse-reflective Models

Pin arrangement

<table>
<thead>
<tr>
<th>Classification</th>
<th>Wire color</th>
<th>Connector pin No.</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC</td>
<td>Brown</td>
<td>1</td>
<td>Power supply (+V)</td>
</tr>
<tr>
<td></td>
<td>White</td>
<td>2</td>
<td>Output DO</td>
</tr>
<tr>
<td></td>
<td>Blue</td>
<td>3</td>
<td>Power supply (0 V)</td>
</tr>
<tr>
<td></td>
<td>Black</td>
<td>4</td>
<td>Output C/O</td>
</tr>
</tbody>
</table>

Nomenclature

Through-beam Models
E3Z-T8-IL (Receiver)

Retro-reflective Models
E3Z-R8-IL

Diffuse-reflective Models
E3Z-D8-IL
E3Z-L8-IL

In the Standard I/O mode (SIO mode):
- Stability indicator (green)

In the IO-Link mode:
- IO-Link communication indicator (green)

Operation selector

Operation indicator (orange)

Sensitivity adjuster

Terminal No.
Safety Precautions

Be sure to read the precautions for all models in the website at: http://www.ia.omron.com/.

Warning Indications

<table>
<thead>
<tr>
<th>Precautions for Safe Use</th>
<th>Precautions for Correct Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warning level</td>
<td>Indicates a potentially hazardous situation which, if not avoided, will result in minor or moderate injury, or may result in serious injury or death. Additionally there may be significant property damage.</td>
</tr>
</tbody>
</table>

Supplementary comments on what to do or avoid doing, to use the product safely.

Supplementary comments on what to do or avoid doing, to prevent failure to operate, malfunction or undesirable effect on product performance.

Meaning of Product Safety Symbols

- General prohibition: Indicates the instructions of unspecified prohibited action.
- Caution, explosion: Indicates the possibility of explosion under specific conditions.
- Caution, fire: Indicates the possibility of fires under specific conditions.

**WARNING**

This product is not designed or rated for ensuring safety of persons either directly or indirectly. Do not use it for such purposes.

The maximum power supply voltage is 30 VDC. Before turning the power ON, make sure that the power supply voltage does not exceed the maximum voltage.

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

Do not use the product with voltage in excess of the rated voltage. Excess voltage may result in malfunction or fire.

Do not use the product above rated load.

**Precautions for Safe Use**

Be sure to follow the safety precautions below for added safety.

1. Do not use the sensor under the environment with explosive or ignition gas.
2. Never disassemble, repair nor tamper with the product.

**Precautions for Correct Use**

1. Do not use the product under the following conditions.
   (1) In the place exposed to the direct sunlight.
   (2) In the place where humidity is high and condensation may occur.
   (3) In the place where vibration or shock is directly transmitted to the product.
2. Connection and Mounting
   (1) If the sensor wiring is placed in the same conduits or ducts as high-voltage or high-power lines, inductive noise may cause malfunction or damage. Wire the cables separately or use a shielded cable.
   (2) Use an extension cable less than 100 m long for Standard I/O mode and less than 20 m for IO-Link mode.
   (3) Do not exceed the following force values applied to the cable.
       - Tensile: 80 N max., torque: 0.1 Nm max., pressure: 20 N max., flexure: 3 kg max.
   M8 metal connectors
   (4) Fasten a fixed implement by hand. If you use pliers, it may cause malfunction or damage to it.
3. Cleaning
   Do not use thinner, alcohol, or other organic solvents. Otherwise, the optical properties and degree of protection may be degraded.
4. Power supply
   When using a commercially available switching regulator, be sure to ground the FG (Frame Ground) terminals.
5. Power supply reset time
   The photoelectric switch will begin sensing no later than 100 ms after the power is turned on. If the load and the photoelectric switch is connected to different power supply, the photoelectric switch must be always turned on first.
6. Turning off the power supply
   When turning off the power, output pulse may be generated. We recommend turning off the power supply of the load or load line first.
7. Water resistance
   Though this is type IP67, do not use in the water, rain or outdoors.
8. Please process it as industrial waste.
Through-beam Models *

Pre-wired Models

E3Z-T81-IL

Dimensions

Tolerance class IT16 applies to dimensions in this data sheet unless otherwise specified.

Pre-wired M12 connector (E3Z-T81-M1TJ)

Pre-wired Models

E3Z-T81-IL

Through-beam Models *

Connector Models

E3Z-T86-IL

* Models numbers for Through-beam Sensors (E3Z-T□-□-IL) are for sets that include both the Emitter and Receiver. The model number of the Emitter is expressed by adding "-L" to the set model number (example: E3Z-T81-IL-L 2M), the model number of the Receiver, by adding "-D" (example: E3Z-T81-IL-D 2M). Refer to Ordering Information to confirm model numbers for Emitter and Receivers.
Note: The lens for the E3Z-D2/D7 is black.
Accessories (Order Separately)

Slits
E39-S65A
E39-S65B
E39-S65C

Slits
E39-S65D
E39-S65E
E39-S65F

<table>
<thead>
<tr>
<th>Model</th>
<th>Size A</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>E39-S65A</td>
<td>0.5 dia.</td>
<td>SUS301 stainless steel</td>
</tr>
<tr>
<td>E39-S65B</td>
<td>1.0 dia.</td>
<td></td>
</tr>
<tr>
<td>E39-S65C</td>
<td>2.0 dia.</td>
<td></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>Size A</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>E39-S65D</td>
<td>0.5</td>
<td>SUS301 stainless steel</td>
</tr>
<tr>
<td>E39-S65E</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>E39-S65F</td>
<td>2.0</td>
<td></td>
</tr>
</tbody>
</table>

Mounting Bracket
E39-L44

(Mounting dimensions)

Reflectors
Refer to E39-R on your OMRON website for details.

Sensor I/O Connectors
Refer to XS3 or XS5 on your OMRON website for details. 236,592 mm

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In the interest of product improvement, specifications are subject to change without notice.

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