## Thin, Compact Head Saves Space and Mounts Closely. Built-in Interference Protection Provided.

- Input indicator on the Sensor Unit simplifies settings.


Be sure to read Safety Precautions on page 11.

## Ordering Information

Sensors


[^0]Amplifier Units [Refer to Amplifier Units on page 15.]

| Power supply | Application | Appearance | Functions | Model |
| :---: | :---: | :---: | :---: | :---: |
| AC | Standard models | --2 | E3C-A |  |
|  | Slim type | E3C-C |  |  |

## Accessories (Order Separately)

Mounting Brackets [Refer to E39-L/F39-L/E39-S/E39-R for Dimensions.]
Model

Note: Refer to E39-L/F39-F/E39-S/E39-R for Dimensions.

* When using through-beam models, order one bracket for the Receiver and one for the Emitter

Connector [Refer to E39-L/F39-L/E39-S/E39-R for Dimensions.]

| Name | Appearance | Model | Quantity | Remarks |
| :--- | :---: | :---: | :---: | :---: |
| Front connection <br> socket | PF113A | 1 | Provided with the E3C-A/C. |  |
|  |  | PYF08A | 1 | Can be used with the E3C-GE4. |
|  | PY08 | 1 | Can be used with the E3C-GE4. |  |

## Ratings and Specifications

## Sensors

| Sensing methodItem Model |  | Through-beam |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | E3C-S10 | E3C- | S20W | E3C-S50 | $\begin{aligned} & \text { E3C-S30T } \\ & \text { E3C-S30W } \end{aligned}$ |  |  | E3C-2 |
| Sensing distance |  | 100 mm | 200 mm |  | 500 mm | 300 mm | 1 m |  | 2 m |
| Standard sensing object |  | Opaque, 2-mm dia. min. |  |  | Opaque, 3-mm dia. min. | Opaque, $1.5-\mathrm{mm}$ dia. min. | Opaque dia. min | 4-mm | Opaque, 8-mm dia. min. |
| Directional angle |  | Emitter/Receiver: 10 to $60^{\circ}$ each |  |  | Emitter/Receiver: 10 to $40^{\circ}$ each |  | Emitter/Receiver: 3 to $20^{\circ}$ each |  | Emitter/Receiver: 3 to $15^{\circ}$ each |
| Light source (wavelength) |  | Infrared LED (950 nm) |  |  |  | $\begin{aligned} & \text { Infrared LED } \\ & (940 \mathrm{~nm}) \end{aligned}$ | Infrared LED (950 nm) |  |  |
| Ambient illuminance (Receiver side) |  | Incandescent lamp: 3,000 lx max., Sunlight 10,000 lx max. |  |  |  |  |  |  |  |
| Ambient temperature range |  | Operating/Storage: $-25^{\circ} \mathrm{C}$ to $70^{\circ} \mathrm{C}$ (with no icing or condensation) |  |  |  |  |  |  |  |
| Ambient humidity range |  | Operating: $35 \%$ to $85 \%$, Storage: $35 \%$ to $95 \%$ (with no condensation) |  |  |  |  |  |  |  |
| Insulation resistance |  | $20 \mathrm{M} \Omega \mathrm{min}$. at 500 VDC |  |  |  |  |  |  |  |
| Dielectric strength |  | 500 VAC at $50 / 60 \mathrm{~Hz}$ for 1 minute |  |  |  |  |  |  |  |
| Vibration resistance |  | Destruction: 10 to $55 \mathrm{~Hz}, 1.5-\mathrm{mm}$ double amplitude for 2 hours each in $\mathrm{X}, \mathrm{Y}$, and Z directions |  |  |  |  |  |  |  |
| Shock resistance |  | Destruction: $500 \mathrm{~m} / \mathrm{s}^{2}$ for 3 times each in $\mathrm{X}, \mathrm{Y}$, and Z directions |  |  |  |  |  |  |  |
| Degree of protection |  | IEC 60529 IP64 Limited to indoor use | IEC 60529 IP50 Limited to indoor use |  | IEC 60529 IP64 Limited to indoor use | IEC 60529 IP60 Limited to indoor use | IEC 60529 IP66 Limited to indoor use |  |  |
| Connection method |  | Pre-wired models (standard length: 2 m ) |  |  |  |  |  |  |  |
| Weight (packed state) |  | Approx. 50 g |  |  |  | Approx. 24 g | Approx. 60 g |  | Approx. 120 g |
| Material | Case | Polycarbonate |  |  | ABS | Polycarbonate |  |  | Zinc die-cast |
|  | Lens | Polycarbonate |  |  | Acrylics | Polycarbonate |  |  |  |
|  | Mounting Brackets | --- |  |  |  |  | Steel |  |  |
| Accessories |  | Instruction Phillips screw <br> manual <br> M2 $\times 8$, spring  <br> washer, flat  <br> washer, M2 nut,  <br> instruction  <br> manual  |  |  | Instruction manual | Phillips screw M $2 \times 8$, spring washer, flat washer, nut M2, instruction manual | Mounting Bracket (with screws), instruction manual |  | Mounting Bracket (with screws), instruction manual |
| Sensing method <br> Item <br> Model |  | Diffuse-reflective |  |  |  |  |  | Convergent-reflective |  |
|  |  | E3C-DS5W |  |  | 3C-DS10T | E3C-DS10 |  | E3C-LS3R |  |
| Sensing distance |  | $\begin{aligned} & 50 \mathrm{~mm}(\text { White paper } 100 \times \\ & 100 \mathrm{~mm}) \end{aligned}$ |  | $\begin{aligned} & 100 \mathrm{~mm} \\ & \times 100 \mathrm{mr} \end{aligned}$ | (White paper 100 m) | $\begin{aligned} & 100 \mathrm{~mm} \text { (White paper } 50 \times \\ & 50 \mathrm{~mm} \text { ) } \end{aligned}$ |  | $\begin{aligned} & 30 \pm 3 \mathrm{~mm} \text { (White paper } 10 \\ & \times 10 \mathrm{~mm}) \end{aligned}$ |  |
| Differential travel |  | 20\% max. of sensing distance |  |  |  | 10\% max. |  | $\pm 3 \%$ max. |  |
| Light source (wavelength) |  | Infrared LED (950 nm) $\quad$ Infrared LED (950 nm) |  |  |  |  |  | Red LED (680 nm) |  |
| Ambient illuminance (Receiver side) |  | Incandescent lamp: 3,000 lx max., Sunlight 10,000 Ix max. |  |  |  |  |  |  |  |
| Ambient temperature range |  | Operating/Storage: $-25^{\circ} \mathrm{C}$ to $70^{\circ} \mathrm{C}$ (with no icing or condensation) |  |  |  |  |  |  |  |
| Ambient humidity range |  | Operating: $35 \%$ to $85 \%$, Storage: $35 \%$ to $95 \%$ (with no condensation) |  |  |  |  |  |  |  |
| Insulation resistance |  | $20 \mathrm{M} \Omega$ min. at 500 VDC |  |  |  |  |  |  |  |
| Dielectric strength |  | 500 VAC at $50 / 60 \mathrm{~Hz}$ for 1 minute |  |  |  |  |  |  |  |
| Vibration resistance |  | Destruction: 10 to $55 \mathrm{~Hz}, 1.5-\mathrm{mm}$ double amplitude for 2 hours each in $\mathrm{X}, \mathrm{Y}$, and Z directions |  |  |  |  |  |  |  |
| Shock resistance |  | Destruction: $500 \mathrm{~m} / \mathrm{s}^{2}$ for 3 times each in X, Y, and Z directions |  |  |  |  |  |  |  |
| Degree of protection |  | IEC 60529 IP50 (Limited to indoor use) |  |  |  | IEC 60529 IP64 (Limited to indoor use) |  |  |  |
| Connection method |  | Pre-wired models (standard length: 2 m ) |  |  |  |  |  |  |  |
| Weight (packed state) |  | Approx. 50 g |  |  |  |  |  | Approx. 55 g |  |
| Material | Case | Polycarbonate |  |  |  |  |  |  |  |
|  | Lens | Polycarbonate |  |  |  |  |  |  |  |
| Accessories |  | Phillips screw M $2 \times 8$, spring washer, flat washer, M2 nut, instruction manual |  | Instruction manual |  |  |  |  |  |

## Amplifier Units

| Item | Model | E3C-A | E3C-C | E3C-JC4P | E3C-GE4 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Power supply voltage |  | 100 to $240 \mathrm{VAC} \pm 10 \%, 50 / 60 \mathrm{~Hz}$ |  | 12 to $24 \mathrm{VDC} \pm 10 \%$, ripple (p-p): 1 V max. |  |
| Power (current) consumption |  | 3 W max. |  | 50 mA max. |  |
| Control output | Transistor output | Load power supply voltage: 24 VDC max., load current: 80 mA max., voltage output type, output current: 1 to 4 mA (residual voltage: 1.2 V max.) <br> Light-ON/Dark-ON switch selectable |  | Load power supply voltage: 24 VDC max., load current: 100 mA max., NPN open collector output type (residual voltage: 1 V max.) <br> Light-ON/Dark-ON switch selectable | Load power supply voltage: 24 <br> VDC max., load current: <br> 80 mA max., voltage output type, output current: 1 to 4 mA (residual voltage: 0.7 V max.) Light-ON/Dark-ON cable connection selectable |
|  | Relay output | $\begin{aligned} & 220 \text { VAC } 1 \text { A cos } \phi=1 \\ & \text { (resistive load) } \\ & \text { SPDT contact only } \end{aligned}$ |  | -- |  |
| External synchronous input |  | --- | $\begin{aligned} & \mathrm{H}=6 \text { to } 30 \mathrm{~V} \\ & \mathrm{~L}=0 \text { to } 2 \mathrm{~V} \end{aligned}$ <br> When L, turns OFF the control output forcibly. | --- |  |
| Timer function |  | --- | ON/OFF, oneshot delay (selectable): 1 or 10 s max. | OFF-delay 0/40 ms (switch selectable) | --- |
| Ambient temperature range |  | Operating: $-10^{\circ}$ to $55^{\circ} \mathrm{C}$, Storage: $-25^{\circ}$ to $70^{\circ} \mathrm{C}$ (with no icing or condensation) |  |  |  |
| Ambient humidity range |  | Operating: $35 \%$ to $85 \%$, Storage: $35 \%$ to $95 \%$ (with no condensation) |  |  |  |
| Insulation resistance |  | $20 \mathrm{M} \Omega \mathrm{min}$. at 500 VDC |  |  |  |
| Dielectric strength |  | 500 VAC at $50 / 60 \mathrm{~Hz}$ for 1 minute |  |  |  |
| Vibration resistance |  | Destruction: 10 to 55 Hz , 1.5-mm double amplitude for 2 hours each in $\mathrm{X}, \mathrm{Y}$, and Z directions |  |  |  |
| Shock resistance |  | Destruction: $300 \mathrm{~ms}^{2}$ three times in each of $\mathrm{X}, \mathrm{Y}$ and Z directions |  |  |  |
| Degree of protection |  | $\begin{array}{\|l} \text { IEC IP20 } \\ \text { (limited to indoor use) } \end{array}$ |  | IEC IP60 <br> (limited to indoor use) | $\begin{array}{\|l\|l} \hline \text { IEC IP20 } \\ \text { (limited to indoor use) } \end{array}$ |
| Protection |  | Reverse polarity protection, output short-circuit protection, mutual interference prevention |  |  |  |
| Response time | No contact | Operate or reset: 1 ms max. $/ 2 \mathrm{~ms}$ max. each (switch selectable) |  | Operate or reset: 1 ms max . | Operate or reset: 1 ms max./2 ms max. each (switch selectable) |
|  | Relay | Operate or reset: 20 ms max. |  | --- |  |
| Connection method |  | Terminal block |  | Terminal block input cable pullout (standard cable length: 2 m ) | Terminal block |
| Weight (packed state) |  | Approx. 200 g |  | Approx. 80 g | Approx. 15 g |
| Material | Case | ABS |  |  | Polycarbonate |
|  | Mounting Brackets | Stainless steel | --- | Iron | --- |
| Accessories |  | Connection Socket (PF113A) Instruction manual |  | Mounting Bracket, Adjustment screwdriver, Caution label, Instruction manual | Instruction manual |

* The terminal pins are used for connection between amplifiers for synchronous operation.


## Engineering Data (Typical)

## Parallel Operating Range

## Through-beam

## E3C-S10



## Through-beam

E3C-1


## Through-beam

E3C-S20W


## Through-beam

E3C-2


Through-beam
E3C-S50


Through-beam
E3C-S30T/-S30W


## Operating Range

## Diffuse-reflective

E3C-DS5W


## Diffuse-reflective

E3C-DS10T


Diffuse-reflective
E3C-DS10 (Example 1)


Diffuse-reflective
E3C-DS10 (Example 2)


Convergent-reflective E3C-LS3R (Example 1)


Convergent-reflective

## E3C-LS3R (Example 2)



Excess Gain vs. Set Distance

E3C-S20W


E3C-DS5W


E3C-S30T/-S30W


E3C-DS10T


E3C-S50


E3C-LS3R


## I/O Circuit Diagrams

NPN output

| Model | $\begin{gathered} \text { Operation } \\ \text { mode } \end{gathered}$ | Timing charts * | Operation selector | Output circuit |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { E3C-A } \\ & \text { E3C-C } \end{aligned}$ | Light-ON |  | LIGHT ON |  |
|  | Dark-ON |  | DARK ON | * 1. E3C-C only <br> * 2. E3C-Al-C have SPDT contact output (About terminal number, please refer to the connection section.) |
| E3C-JC4P | Light-ON |  | L-ON (LIGHT ON) |  |
|  | Dark-ON |  | $\begin{gathered} \text { D-ON } \\ \text { (DARK ON) } \end{gathered}$ |  |
| E3C-GE4 | Light-ON |  | Switched with wiring. $\text { (14) }+{ }^{-} 1^{-}(4)$ <br> (LIGHT ON) |  |
|  | Dark-ON |  | Switched with wiring. <br> (DARK ON) |  |

[^1]Connection

| Amplifier Units | Connected to the through-beam model | Connected to the reflective model | Note |
| :---: | :---: | :---: | :---: |
| $\begin{gathered} \text { E3C-A/C } \\ + \\ \text { PF113A } \end{gathered}$ |  |  | Note: 1. The strip-off length of the shielded cable should always be 20 mm max. on the Receiver side (white) and 50 mm max. on the Emitter side (red). <br> 2. The E3C-A does not have a gate input function. <br> 3. $L$ when the gate input 2-9 terminals are connected, H when they are disconnected. |
| E3C-JC4P |  |  | Note: 1. The strip-off length of the shielded cable should always be 20 mm max. on the Receiver side (white) and 50 mm max. on the Emitter side (red). |
| E3C-GE4 |  |  | Note: 1. The strip-off length of the shielded cable should always be 20 mm max. on the Receiver side (white) and 50 mm max. on the Emitter side (red). <br> 2. The response time is 1 ms when ( 8 ) is disconnected, and 2 ms when ( 8 ) is connected to 0 V (negative side) of the power supply. <br> 3. By setting the power supply terminal (4) to and (14) to + , the output turns " H " when the light is received. With the E2 mode, the output transistor turns OFF. By setting (4) to + and (14) to + , the output turns "L" when the light is received. With the E1 mode, the output transistor turns ON. |

Nomenclature/Settings


| Amplifier Units | Nomenclature | Settings |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| E3C-JC4P |  | --- |  |  |  |
| E3C-GE4 |  | Operation switching |  |  |  |
|  |  | (14) ${ }^{-}+$(4) | DARK turns the output " H ". |  |  |
|  |  | (14) ${ }^{+} \mathrm{Tr}^{-}$(4) | LIGHT turns the output " H ". |  |  |
|  |  | Response time changing (The different frequency type can be made up by changing the response speed.) |  |  |  |
|  |  | (8)-0 V * connected | The response time is set to 2 ms .The response time is set to 1 ms . |  |  |
|  |  | (8) disconnected |  |  |  |
|  |  |  |  |  |  |
|  |  | Timing chart |  |  |  |
|  |  | No incident light $\qquad$ <br> (14) ${ }^{+} \square^{-}$(4) $\qquad$ | $\square$ | "H" | (OFF) |
|  |  | $\text { (14) }-{ }^{+} \text {(4) }$ |  | $\begin{aligned} & \text { "L" } \\ & \text { "H" } \end{aligned}$ | (ON) <br> (OFF) |
|  |  |  |  |  |  |

## Safety Precautions

Refer to Warranty and Limitations of Liability.

| $\lfloor$ WARNING |
| :--- |
| This product is not designed or rated for ensuring |
| safety of persons either directly or indirectly. |
| Do not use it for such purposes. |

## Precautions for Correct Use

Do not use the product in atmospheres or environments that exceed product ratings.

## Amplifier Units

## - Wiring

## Connection of E3C-JC4P Amplifier Unit and Sensor

Always run the shielded wires of the Emitter and Receiver separately. Also, route the sensor cable along the cable grooves of the cover and sensor and fix it with the cover.


## Connection Socket

The standard socket is the PF113A for the E3C-A and -C, and the PYF08A, PYF08M or PY08 for the E3C-GE4. Avoid using any other sockets since they may not satisfy the characteristics. (There will be no problem when the STABILITY indicator turns ON)

## Sensor Units

## Wiring

## Extension Cable

- The extension distance of the sensor connection cable should be within 10 m .
- The strip-off length of the core in the connection cable should be 20 mm max. on the Receiver side and 50 mm max. on the Emitter side, and the core should be as short as possible. Avoid using the joint terminal and connector.

- Use independent shielded wires for the Emitter and Receiver. Using a common shielded wire can cause a malfunction.


Extension Cable
Through-beam

| Model Cable | Specified cable | Replacement cable |
| :---: | :---: | :---: |
| E3C-S10 <br> E3C-1 <br> E3C-2 <br> E3C-S50 | Polyethylene insulation shield Round cable | 1-conductor shield/ vinyl wire, conductor cross section: $0.3 \mathrm{~mm}^{2} \mathrm{~min}$. <br> Gray (vinyl sheath) |
| E3C-S20W | Vinyl insulation shield round cable <br> 12-conductor, 0.18 dia. | 1-conductor shield/ vinyl wire, conductor cross section: $0.3 \mathrm{~mm}^{2} \mathrm{~min}$. |
| $\begin{aligned} & \text { E3C-S30T } \\ & \text { E3C-S30W } \end{aligned}$ | Vinyl insulation shield round cable (robot cable) |  |

## Reflective model

| Cable |  | Replacement <br> cable |
| :--- | :--- | :--- | :--- |
| Model |  |  |

## - Others

When the E3C is used in a place where high-frequency noise will be generated, e.g. ultrasonic welder, grounding the $0-\mathrm{V}$ terminal (on the shield side of the connection cable) of the Receiver may avoid a malfunction caused by induction.

## Sensors

Sensor Units


E3C-S50

2.4-dia. shielded cable with 1 conductor
(Conductor cross section: $0.3 \mathrm{~mm}^{2}$ ),
Standard length: 2 m

| Emitter: | E3C-S50L |
| :--- | :--- |
| Receiver: | E3C-S50D |



## E3C-S20W



Emitter: E3C-S20LW
Receiver: E3C-S20DW

Receiver



## $\stackrel{1}{\square} \stackrel{1}{\square}$


(Conductor cross section: 2.2
$0.15 \mathrm{~mm}^{2}$ ),
Standard length: 2 m


Emitter: E3C-S30LW
Receiver: E3C-S30DW


## E3C-DS10



## E3C-DS5W



E3C-DS10T


E3C-LS3R


Emitter
Receiver


## Amplifier Units



## E3C-JC4P


*After adjusting the sensitivity, attach the caution label at the location indicated by above to prevent malfunction
E3C-GE4


## Connector

Use the PYF08A front connection socket
or PY08 rear connection socket.

## Accessories (Order Separately)

## Mounting Brackets

Refer to E39-L/F39-L/E39-S/E39-R for details. Connecting Sockets
Refer to E39-L/F39-L/E39-S/E39-R for details.

## Read and Understand This Catalog

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## Disclaimers

## 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 products 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

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

## PERFORMANCE DATA

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[^0]:    * Through-beam Sensors are normally sold in sets that include both the Emitter and Receiver.

    Orders for individual Emitters and Receivers are accepted. (Modifications are required for some models. Ask your OMRON representative for details.)

[^1]:    * For t in the timing chart, refer to Part Names/Selection Method on page 9.

