CSM\_E3C\_DS\_E\_8\_1

# **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

# **Ordering Information**

# Sensors

Sensing method	Application	Appearance	Sensing distance	Model
		10 11 11	100 mm	E3C-S10 2M Emitter E3C-S10L 2M Receiver E3C-S10D 2M
	Small type	5.8	<b>∑</b> 500	E3C-S50 2M Emitter E3C-S50L 2M Receiver E3C-S50D 2M
	Small type	121		E3C-1 2M 1 m Emitter E3C-1L 2M Receiver E3C-1D 2M
Through-beam Emitter + Receiver) *		18 12.4		E3C-2 2M 2 m Emitter E3C-2L 2M Receiver E3C-2D 2M
	Slim type	12.5 16 2 2.8 15	200 r	mm E3C-S20W 2M Emitter E3C-S20LW 2M Receiver E3C-S20DW 2M
		7.85	( )	E3C-S30W 2M Emitter E3C-S30LW 2M Receiver E3C-S30DW 2M
	Side-view	15	300	E3C-S30T 2M Emitter E3C-S30LT 2M Receiver E3C-S30DT 2M
	Small type	18 26 10	100 mm	E3C-DS10 2M
Diffuse-reflective	Slim type	19.5	50 mm	E3C-DS5W 2M
	Side-view	18 21 000	100 mm	E3C-DS10T 2M
Convergent-reflective	Small type	36	30±3 mm	E3C-LS3R 2M

<sup>\*</sup> 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.)

# Amplifier Units [Refer to Amplifier Units on page 15.]

Power supply	Application	Appearance	Functions	Model			
AC	Standard models	48 109.5					E3C-A
AC	Standard models		Timer	E3C-C			
DC	Slim type	30 60	Self diagnostic	E3C-JC4P 2M			
50	Small type	27.2		E3C-GE4			

# **Accessories (Order Separately)**

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

Appearance	Model	Quantity	Remarks
	E39-L41	2	Provided with the E3C-1.
	E39-L42	2	Provided with the E3C-2. Can be used with the E3C-DS10.
	E39-L127-T1	1	
	E39-L127-T2	1	Can be used with the E3C-S10.
	E39-L127-T3	1	
	E39-L31	1*	Can be used with the E3C-S50.

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

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

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.

# **Ratings and Specifications**

# Sensors

	Sensing method	d Through-beam							
Item	Model	E3C-S10	E3C-9	S20W	E3C-S50	E3C-S30T E3C-S30W	E3	C-1	E3C-2
Sensing d	listance	100 mm	200 mm		500 mm	300 mm	1 m		2 m
Standard object		Opaque, 2-mm dia			Opaque, 3-mm dia. min.	Opaque, 1.5-mm dia. min.	Opaque,		Opaque, 8-mm dia. min.
Directiona	al angle	Emitter/Receiver: 10 to 60° each			Emitter/Receiver:	10 to 40° each	Emitter/F		Emitter/Receiver: 3 to 15° each
Light sou	rce (wavelength)	Infrared LED (950 nm)				Infrared LED (940 nm)	Infrared	LED (950	nm)
Ambient i (Receiver	lluminance side)	Incandescent lam	p: 3,000 lx	max., Sı	unlight 10,000 lx ma	ax.	1		
Ambient t	emperature range	Operating/Storage	e: –25°C to	o 70°C (w	vith no icing or cond	densation)			
Ambient h	numidity range	Operating: 35% to	85%, Sto	rage: 35°	% to 95% (with no	condensation)			
Insulation	resistance	20 M $\Omega$ min. at 500	VDC						
Dielectric	strength	500 VAC at 50/60	Hz for 1 r	ninute					
Vibration	resistance	Destruction: 10 to	55 Hz, 1.	5-mm doı	uble amplitude for 2	hours each in X, Y	/, and Z d	irections	
Shock res	sistance				h in X, Y, and Z dir				
Degree of	protection	IEC 60529 IP64 Limited to indoor use	IEC 6052 Limited to use	29 IP50	IEC 60529 IP64 Limited to indoor use	IEC 60529 IP60 Limited to indoor use	EC 60529 IP60 Limited to indoor Limited to indoor use		
Connection	on method	Pre-wired models	(standard	length: 2	! m)				
Weight (p	acked state)	Approx. 50 g				Approx. 24 g	Approx.	60 g	Approx. 120 g
	Case	Polycarbonate			ABS	Polycarbonate			Zinc die-cast
Material	Lens	Polycarbonate			Acrylics	Polycarbonate			
waterial	Mounting Brackets					Steel			
Accessor	ies	Instruction manual	Phillips screw M2×8, spring washer, flat washer, M2 nut, instruction manual		Instruction manual	Phillips screw M2×8, spring washer, flat washer, nut M2, instruction manual	Mounting Bracket screws), instruction manual	with	Mounting Bracket (with screws), instruction manual
	Sensing method		Diffuse-reflective					Conve	ergent-reflective
Item	Model	E3C-DS5V	V		3C-DS10T	E3C-DS1	0		E3C-LS3R
Sensing d		50 mm (White pap	-		(White paper 100	100 mm (White pa			m (White paper 10
Differentia	al travel	20% max. of sens	ing distan	ce		10% max.		±3% ma	X.
Light sou	rce (wavelength)	Infrared LED (950	nm)	Infrared	LED (950 nm)			Red LED	O (680 nm)
	lluminance	Incandescent lamp: 3,000 lx max., Sunlight 10,000 lx max.							
Ambient t	emperature range	Operating/Storage: –25°C to 70°C (with no icing or condensation)							
Ambient h	numidity range	Operating: 35% to 85%, Storage: 35% to 95% (with no condensation)							
Insulation	resistance	20 M $\Omega$ min. at 500 VDC							
Dielectric	strength	500 VAC at 50/60 Hz for 1 minute							
Vibration	resistance	Destruction: 10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z of						irections	
Shock res	sistance	Destruction: 500 m/s² for 3 times each in X, Y, and Z directions							
	protection	IEC 60529 IP50 (Limited to indoor use)  IEC 60529 IP64 (Limited to indoor use)					indoor us	se)	
	on method	Pre-wired models			,				,
	acked state)	Approx. 50 g	,otanidalu	.0.19.11. 2	,			Approx.	55 a
weight (p	1 -							Appiox.	55 g
Material	Case	Polycarbonate							
	Lens	Polycarbonate	0						
Accessor	ies	Phillips screw M2: spring washer, flat M2 nut, instruction	washer,	Instruction	on manual				

# **Amplifier Units**

Item	Model	E3C-A	E3C-C	E3C-JC4P	E3C-GE4			
Power sup voltage	Power supply oltage 100 to 240 VAC±10%, 50/60 Hz			12 to 24 VDC±10%, ripple (p-p	): 1 V max.			
	Power (current) 3 W max.			50 mA max.				
Transis- tor Control output		Load power supply voltage: 24 max., voltage output type, outp voltage: 1.2 V max.) Light-ON/Dark-ON switch select	•	Load power supply voltage: 24 VDC max., load current: 100 mA max., NPN open collector output type (residual voltage: 1 V max.) Light-ON/Dark-ON switch se- lectable	Load power supply voltage: 24 VDC max., load current: 80 mA max., voltage output type, output current: 1 to 4 mA (residual voltage: 0.7 V max.) Light-ON/Dark-ON cable con- nection selectable			
	Relay out- put	220 VAC 1 A cosφ=1 (resistive load) SPDT contact only		-				
External synchrono	us input		H = 6 to 30 V L = 0 to 2 V When L, turns OFF the control output forcibly.	ol				
Timer func	imer function ON/OFF, oneshot delay (selectable): 1 or 10 s max.			OFF-delay 0/40 ms (switch selectable)				
Ambient temperatur	e range	Operating: -10° to 55°C, Stora	ge: -25° to 70°C (with no icing o	or condensation)				
Ambient humidity range Operating: 35% to 85%, Storage: 35% to 95% (with no conder			sation)					
Insulation	resistance	20 M $\Omega$ min. at 500 VDC						
Dielectric s	trength	500 VAC at 50/60 Hz for 1 min	ute					
Vibration re	esistance	Destruction: 10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions						
Shock resi	stance	Destruction: 300 ms² three times in each of X, Y and Z directions						
Degree of	orotection	IEC IP20 (limited to indoor use)		IEC IP60 (limited to indoor use)	IEC IP20 (limited to indoor use)			
Protection		Reverse polarity protection, output short-circuit protection, mutual interference prevention						
Response time	No contact	Operate or reset: 1 ms max./2 ms max. each (switch selectable)		Operate or reset: 1 ms max.	Operate or reset: 1 ms max./2 ms max. each (switch selectable)			
ume	Relay	Operate or reset: 20 ms max.		-				
Connection	Connection method Terminal block			Terminal block input cable pullout (standard cable length: 2 m)	Terminal block			
Weight (packed sta	/eight Approx. 200 g			Approx. 80 g Approx. 15 g				
	Case	ABS			Polycarbonate			
Material	Mounting Brackets	Stainless steel		Iron				
Accessorie	es	Connection Socket (PF113A) Instruction manual		Mounting Bracket, Adjustment screwdriver, Caution label, Instruction manual	Instruction manual			

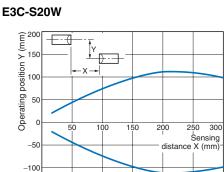
<sup>\*</sup> The terminal pins are used for connection between amplifiers for synchronous operation.

# **Engineering Data (Typical)**

# **Parallel Operating Range**

Through-beam

# 

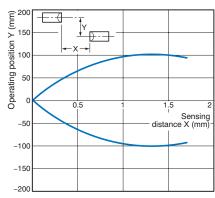


E3C-S50

(E) 150
(I) 17
(I) 150
(I) 17
(I) 1

Through-beam

E3C-1



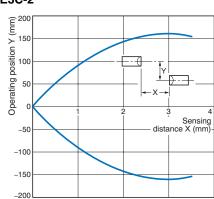
Through-beam

-150

-200

Through-beam

E3C-2



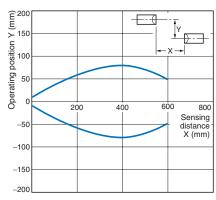
Through-beam

-100

-150

Through-beam

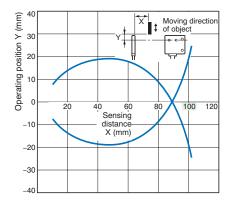
E3C-S30T/-S30W



**Operating Range** 

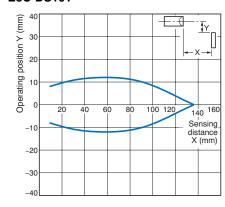
# Diffuse-reflective

#### E3C-DS5W



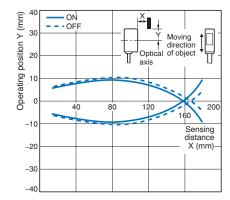
Diffuse-reflective

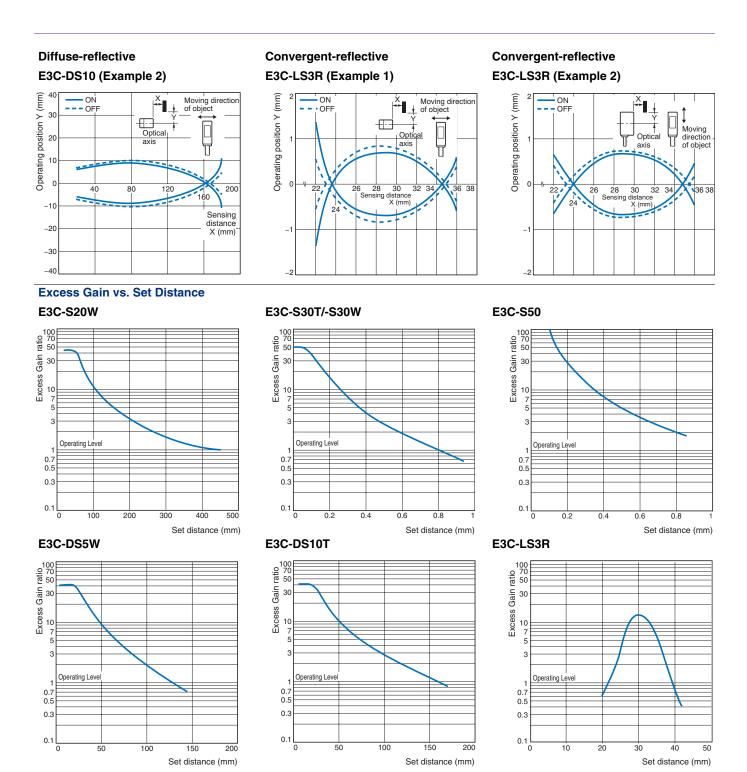
#### E3C-DS10T



Diffuse-reflective

# E3C-DS10 (Example 1)





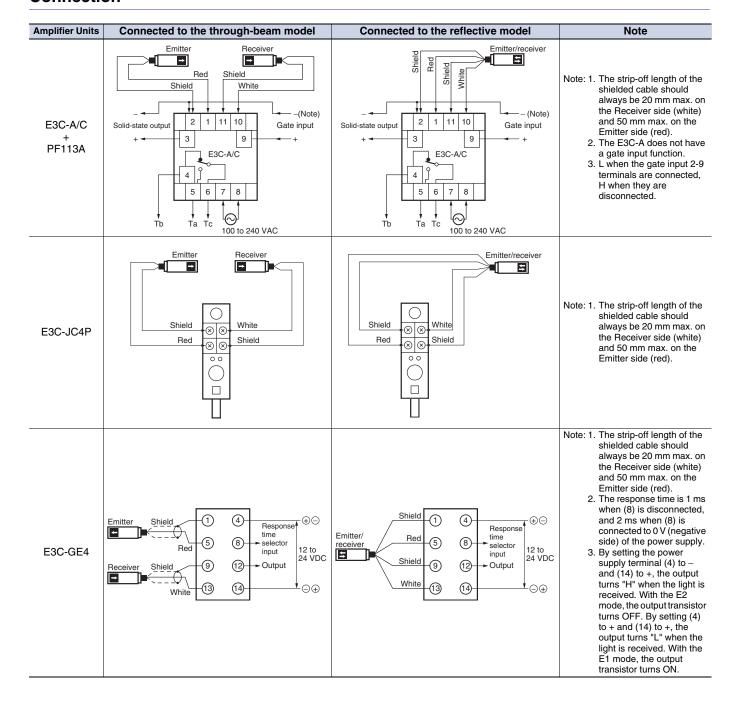
# I/O Circuit Diagrams

# NPN output

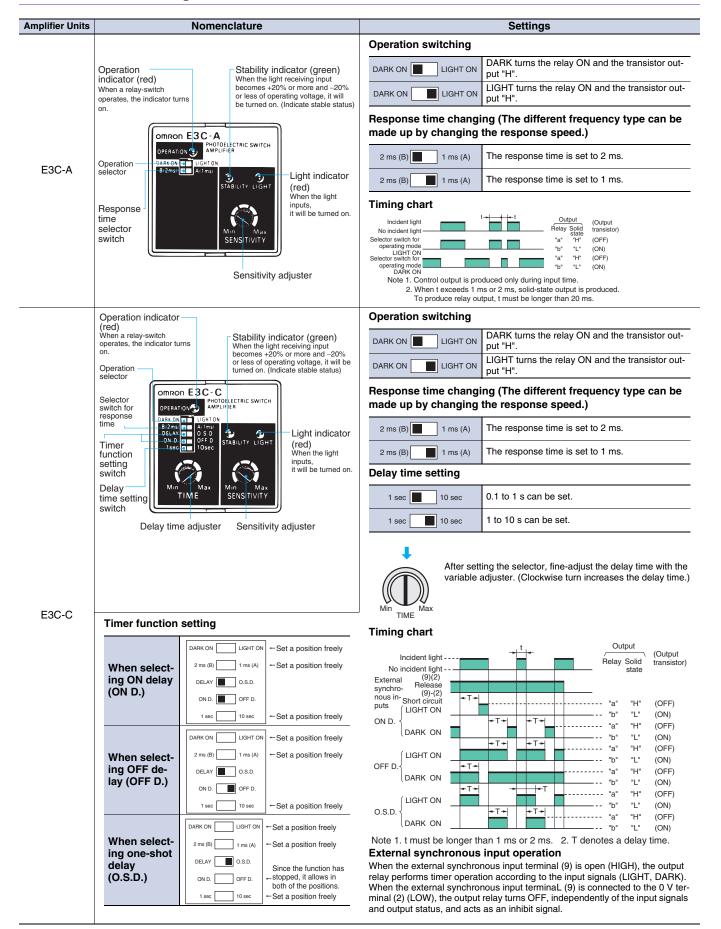
Model	Operation mode	Timing charts *	Operation selector	Output circuit
E3C-A	Light-ON	Incident light No incident light Light ON Indicator OFF (red) Contact output Solid-state output Output Output OV Transistor OFF	LIGHT ON	Synchronous 9 Photo- inputs * 1 9 O O  Synchronous 9 Output    12 V   Rated current
E3C-C	Dark-ON	Incident light No incident light Light ON Indicator OFF (red) Contact output Solid-state output Output Output Output Orransistor OFF	DARK ON	Input circuit  Output circuit  (HIGH 6 to 30 V)  * 1. E3C-C only  * 2. E3C-A/-C have SPDT contact output. (About terminal number, please refer to the connection section.)
E3C-JC4P	Light-ON	Incident light  No incident light Light ON indicator (red) OFF Output ON transistor OFF Load ON (relay etc.) OFF	L-ON (LIGHT ON)	Light indicator (green)  Photo-electric Photo-elect
E3O-JO4F	Dark-ON	No incident light No incident light Light ON indicator (red) OFF Output ON transistor OFF Load ON (relay etc.) OFF	D-ON (DARK ON)	Sensor Main Circuit  V Z1  Pink Self diagnostic output 50 mA max.
E3C.GE4	Light-ON	Incident light  No incident light  Light  ON  indicator OFF  (red)  No-contact  output  Output  On  Orransistor  OFF	Switched with wiring.  (4) + 1 - 4 (LIGHT ON)	Photo- electric Sensor
E3C-GE4	Dark-ON	Incident light  No incident light  Light ON Indicator OFF (red) No-contact Output Output ON Transistor OFF	Switched with wiring.  (4) - 1 + (4) (DARK ON)	Main Circuit Power source

<sup>\*</sup> For t in the timing chart, refer to Part Names/Selection Method on page 9.

# Connection



# Nomenclature/Settings



Amplifier Units	Nomenclature	Settings
E3C-JC4P	Stability indicator (green) Sensitivity adjuster (4-turn endless asjuster)  Operation selector	
E3C-GE4	Stability indicator (green) When the light receiving input becomes+20% or more and -20% or less of operating voltage, it will be turned on. (Indicate stable status)  Sensitivity adjuster	Operation switching  DARK turns the output "H".  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

# **Safety Precautions**

# Refer to Warranty and Limitations of Liability.



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**

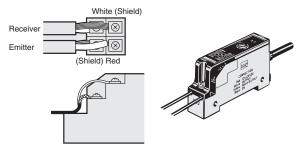
Do not use the product in atmospheres or environments that exceed product ratings.

## **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**

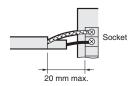
The standard socket is the PF113A for the E3C-A and -C, and the PYF08A, PYF08M or PY08 for the E3C-GE4. Avoid using any other sockets since they may not satisfy the characteristics. (There will be no problem when the STABILITY indicator turns ON)

## 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

Cable Model	Specified cable	Replacement cable
E3C-S10	Polyethylene insulation shield Round cable  Shield	1-conductor shield/ vinyl wire, conduc- tor cross section: 0.3 mm² min.
E3C-1 E3C-2 E3C-S50	2.4 dia. White (polyethylene)	Shield White (vinyl)
	12-conductor, 0.18 dia.	Gray (vinyl sheath)
E3C-S20W	Vinyl insulation shield round cable  Sheath Shield Polyethylene Conductor 12-conductor, 0.18 dia.	1-conductor shield/ vinyl wire, conduc-
E3C-S30T E3C-S30W	Vinyl insulation shield round cable (robot cable)  Sheath Shield  1.8 dia.  Polyethylene Conductor  30-conductor, 0.08 dia.	tor cross section: 0.3 mm <sup>2</sup> min.

#### Reflective model

Cable Model	Specified cable	Replacement cable
E3C-DS10 E3C-DS10T E3C-VS1G E3C-VS3R E3C-LS3R	Vinyl insulation shielded parallel cable  Sheath Internal sheath Shield Polyethylene Conductor 12-conductor, 0.18 dia.	When there is no1- conductor shielded, vinyl cable (parallel wire), use two 1- conductor shielded, vinyl wires.
E3C-DS5W E3C-VS7R E3C-VM35R	Vinyl insulation shielded parallel cable  Sheath Shield Polyethylene Conductor 7-conductor, 0.18 dia.	When there is no1- conductor shielded, vinyl cable (parallel wire), use two 1- conductor shielded, vinyl wires.

#### Others

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

(Unit: mm)

# **Dimensions**

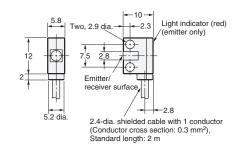
#### **Sensors**

#### **Sensor Units**

#### E3C-S10



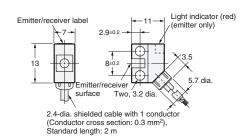
Emitter: E3C-S10L Receiver: E3C-S10D



#### E3C-S50



Emitter: E3C-S50L Receiver: E3C-S50D

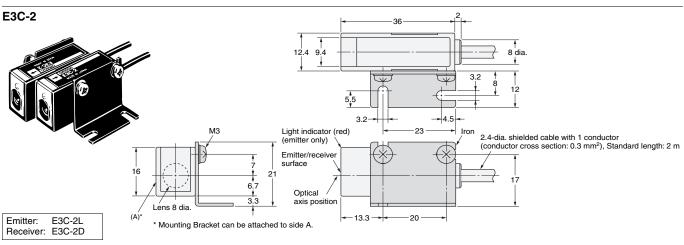


E3C-1

| Solution | Conductor (red) | Conductor (Conductor cross section: 0.3 mm²), Standard length: 2 m surface | Conductor cross section: 0.3 mm²), Standard length: 2 m surface | Conductor cross section: 0.3 mm²), Standard length: 2 m surface | Conductor cross section: 0.3 mm²), Standard length: 2 m surface | Conductor cross section: 0.3 mm²), Standard length: 2 m surface | Conductor cross section: 0.3 mm²), Standard length: 2 m surface | Conductor cross section: 0.3 mm²), Standard length: 2 m surface | Conductor cross section: 0.3 mm²), Standard length: 2 m surface | Conductor cross section: 0.3 mm²), Standard length: 2 m surface | Conductor cross section: 0.3 mm²), Standard length: 2 m surface | Conductor cross section: 0.3 mm²), Standard length: 2 m surface | Conductor cross section: 0.3 mm²), Standard length: 2 m surface | Conductor cross section: 0.3 mm²), Standard length: 2 m surface | Conductor cross section: 0.3 mm²), Standard length: 2 m surface | Conductor cross section: 0.3 mm²), Standard length: 2 m surface | Conductor cross section: 0.3 mm²), Standard length: 2 m surface | Conductor cross section: 0.3 mm²), Standard length: 2 m surface | Conductor cross section: 0.3 mm²), Standard length: 2 m surface | Conductor cross section: 0.3 mm²), Standard length: 2 m surface | Conductor cross section: 0.3 mm²), Standard length: 2 m surface | Conductor cross section: 0.3 mm²), Standard length: 2 m surface | Conductor cross section: 0.3 mm²), Standard length: 2 m surface | Conductor cross section: 0.3 mm²), Standard length: 2 m surface | Conductor cross section: 0.3 mm²), Standard length: 2 m surface | Conductor cross section: 0.3 mm²), Standard length: 2 m surface | Conductor cross section: 0.3 mm²), Standard length: 2 m surface | Conductor cross section: 0.3 mm²), Standard length: 2 m surface | Conductor cross section: 0.3 mm²), Standard length: 2 m surface | Conductor cross section: 0.3 mm²), Standard length: 2 m surface | Conductor cross section: 0.3 mm²), Standard length: 2 m surface | Conductor cross s

Lens 4 dia.

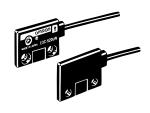
Emitter: E3C-1L Receiver: E3C-1D

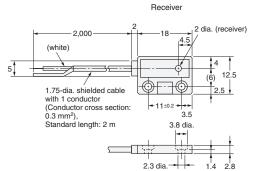


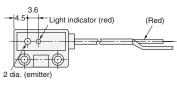
Optical axis position

\* Mounting Bracket can be attached to side A.

#### E3C-S20W







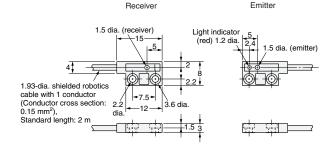
Emitter

Emitter

Emitter: E3C-S20LW Receiver: E3C-S20DW

#### E3C-S30W

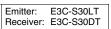




Emitter: E3C-S30LW Receiver: E3C-S30DW

### **E3C-S30T**

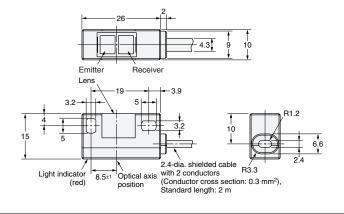




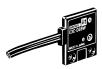
# Receiver Emitter 1.5 dia. (receiver) Light indicator (red) 1.2 dia. 1.5 dia. (emitter) 1.93-dia. shielded robotics cable with 1 conductor (Conductor cross section: 0.15 mm²), Standard length: 2 m **→**7.5**→**

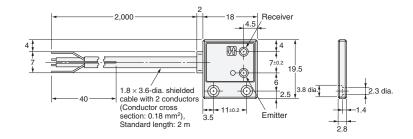
## E3C-DS10





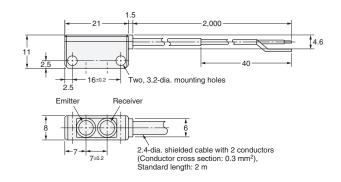
#### E3C-DS5W



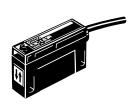


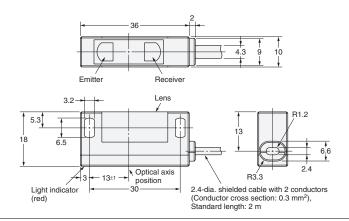
# E3C-DS10T





# E3C-LS3R



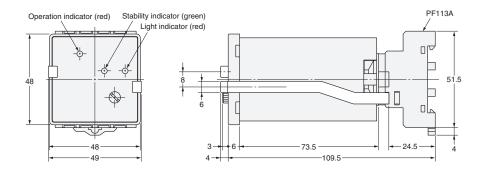


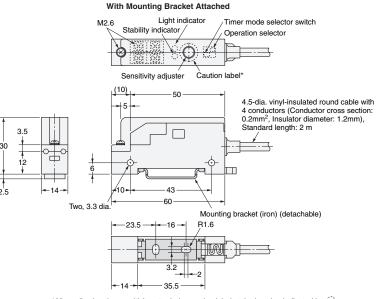
# **Amplifier Units**

# E3C-A E3C-C

E3C-JC4P



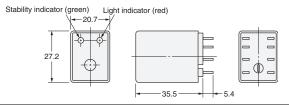




\*After adjusting the sensitivity, attach the caution label at the location indicated by  $\bigcirc$  above to prevent malfunction.

# E3C-GE4





#### Connector

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

# **Accessories (Order Separately)**

**Mounting Brackets** 

Refer to  $\it E39-L/F39-L/E39-S/E39-R$  for details.

**Connecting Sockets** 

Refer to  $\it E39-L/F39-L/E39-S/E39-R$  for details.

#### Read and Understand This Catalog

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

#### Warranty and Limitations of Liability

#### 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.

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- Systems, machines, and equipment that could present a risk to life or property.

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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 PRODUCTS ARE PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

# PROGRAMMABLE PRODUCTS

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## **Disclaimers**

#### **CHANGE IN SPECIFICATIONS**

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