E<sub>3</sub>C

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 page 11.

### **Ordering Information**

### **Sensors**

Sensor Units [Refer to Di	Sensor Units [Refer to <i>Dimensions</i> on page 12.]						
Sensing method	Application	Appearance	Sensing distance	Model			
		10	100 mm	E3C-S10 2M Emitter E3C-S10L 2M Receiver E3C-S10D 2M			
	Small type	5.8	\$\int_500 mm	Receiver E3C-S50D 2M			
	Small type	121		E3C-1 2M Emitter E3C-1L 2M Receiver E3C-1D 2M			
Through-beam (Emitter + Receiver) *		18 12.4		E3C-2 2M Emitter E3C-2L 2M Receiver E3C-2D 2M			
	Slim type	12.5 16 0	200 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 11111	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	19.51 0	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.)

OMRON 1

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

Power supply	Application	Appearance	Functions	Model		
AC	Standard models	48 109.5				E3C-A
	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 socket		PF113A	1	Provided with the E3C-A/C.
		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	od Through-beam							
Item	Model	E3C-S10	E3C-9	S20W	E3C-S50	E3C-S30T E3C-S30W	E3	C-1	E3C-2
Sensing of	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	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 n	ninute					
Vibration	resistance	Destruction: 10 to	55 Hz, 1.5	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	IEC 605	29 IP66 o indoor (	Jse
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	Accessories Ins		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			Diff	use-reflective			Conve	rgent-reflective
Item	Model	E3C-DS5V			E3C-DS1	0		E3C-LS3R	
Sensing o		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% max		x.	
Light sou	rce (wavelength)	Infrared LED (950	nm)	Infrared	LED (950 nm)			Red LED	) (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 MΩ 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 d					irections		
Shock res	sistance	Destruction: 500 m/s² 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)					e)		
	on method	Pre-wired models			,				,
	acked state)	Approx. 50 g	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,			Approx.	55 a
.roigin (p	Case	Polycarbonate						ppiox.	y
Material	Lens	Polycarbonate Polycarbonate							
Accessor		Phillips screw M2: spring washer, flat M2 nut, instruction	washer,	Instruction	on manual				

OMRON 3

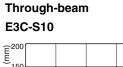
### **Amplifier Units**

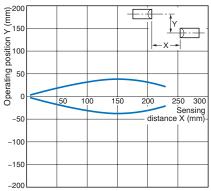
Item	Model	E3C-A E3C-C		E3C-JC4P	E3C-GE4			
Power sup voltage	ower supply 100 to 240 VAC±10%, 50/60 Hz			12 to 24 VDC±10%, ripple (p-p): 1 V max.				
	Power (current) consumption 3 W max.			50 mA max.				
Transis- tor Control output		Load power supply voltage: 24 max., voltage output type, outp voltage: 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.	-				
Timer func	ON/OFF, oneshot delay (selectable): 1 or 10 s max.		OFF-delay 0/40 ms (switch selectable)					
Ambient temperature range Operating: -10° to 55°C, Storage: -25° to 70°C (with no icing				or condensation)				
Ambient humidity range Operating: 35% to 85%, Storage: 35% to 95% (with no conder			ge: 35% to 95% (with no condens	sation)				
Insulation resistance 20 M $\Omega$ min. at 500 VDC								
Dielectric s	trength	500 VAC at 50/60 Hz for 1 min						
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, ou	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	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.

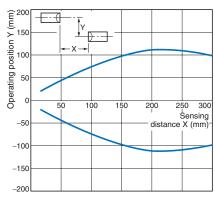
### **Engineering Data (Typical)**

### **Parallel Operating Range**



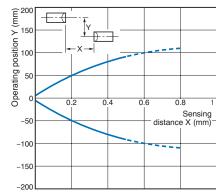


Through-beam E3C-S20W



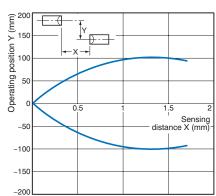
Through-beam

E3C-S50



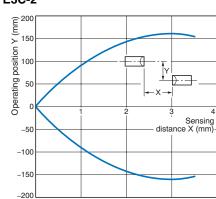
Through-beam

E3C-1



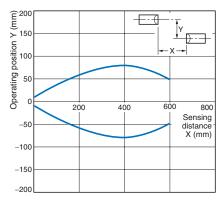
Through-beam

E3C-2



Through-beam

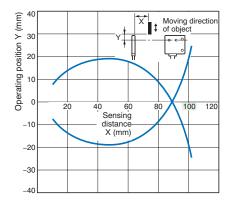
E3C-S30T/-S30W



**Operating Range** 

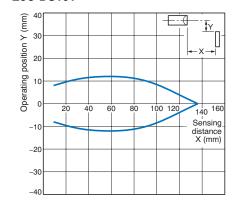
### Diffuse-reflective

### E3C-DS5W



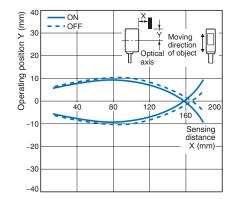
### Diffuse-reflective

### E3C-DS10T

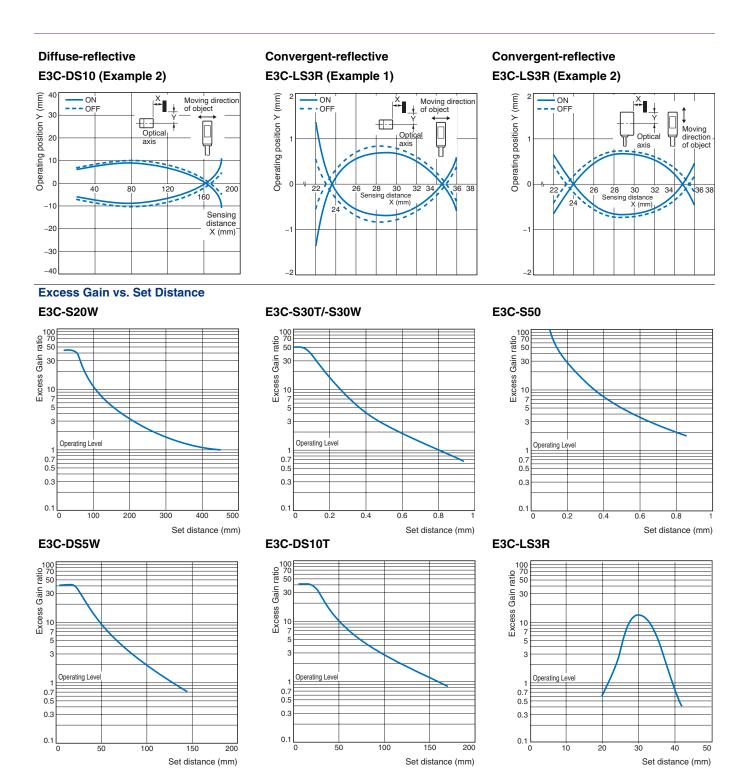


### Diffuse-reflective

### E3C-DS10 (Example 1)



5



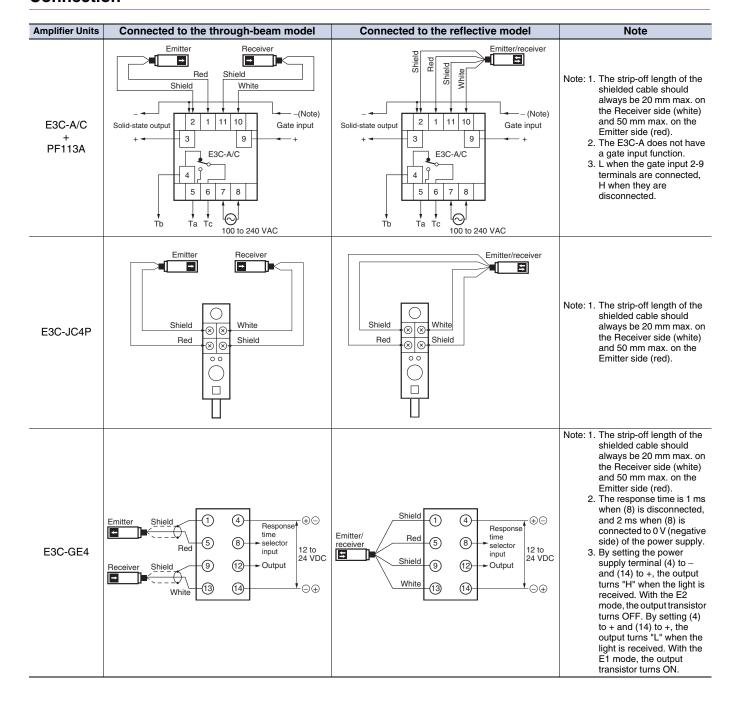
### I/O Circuit Diagrams

### NPN output

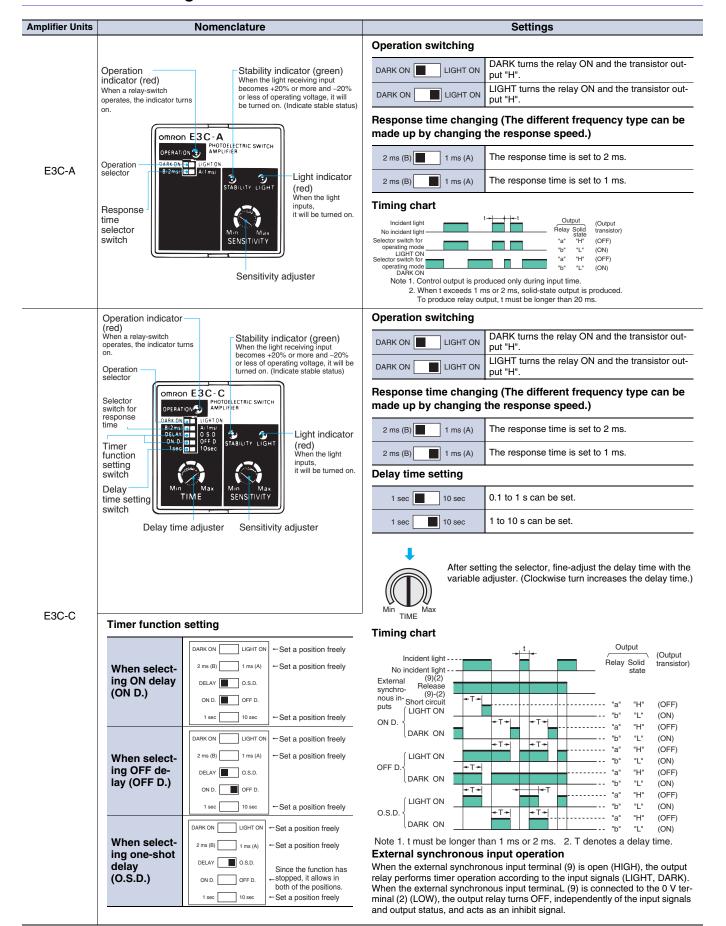
Model	Operation mode	Timing charts *	Operation selector	Output circuit
E3C-A	Light-ON	Incident light No incident light Light ON indicator OFF (red) a Contact output Solid-state H output On ON OFF	LIGHT ON	Synchronous inputs * 1 9 Sensor Main Circuit Circuit Sensor Main C
E3C-C	Dark-ON	Incident light No incident light Light ON indicator OFF (red) Contact output Solid-state output Output Output Output Output On Transistor OFF	DARK ON	Input 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 OFF (red) Output ON transistor OFF Load ON (relay etc.) OFF	L-ON (LIGHT ON)	Light indicator (green)  Photo-electric Photo-elect
230-304F	Dark-ON	Incident light No incident light Light ON indicator (red) OFF Output ON transistor OFF 40 ms	D-ON (DARK ON)	Sensor Main Circuit  Pink Self diagnostic output 50 mA max.
E3C-GE4	Light-ON	Incident light No incident light Light ON Indicator OFF (red) No-contact Upput Output Output Or ON Transistor OFF	Switched with wiring.  4 + 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)  Light indicator (red) When the light inputs, it will be turned on 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.)  B-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**

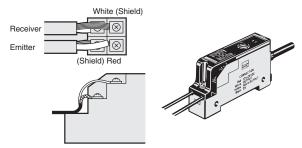
Do not use the product in atmospheres or environments that exceed product ratings.

### **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**

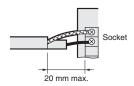
The standard socket is the PF113A for the E3C-A and -C, and the PYF08A, PYF08M or PY08 for the E3C-GE4. Avoid using any other sockets since they may not satisfy the characteristics. (There will be no problem when the STABILITY indicator turns ON)

### 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 E3C-1 E3C-2 E3C-S50	Polyethylene insulation shield Round cable Shield White (polyethylene)	1-conductor shield/ vinyl wire, conduc- tor cross section: 0.3 mm² min. Shield White					
	12-conductor, 0.18 dia.	(vinyl) 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.	on the control of the					

### 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**

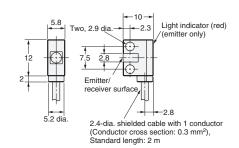
### **Sensors**

### **Sensor Units**

### E3C-S10



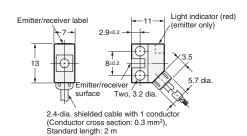
Emitter: E3C-S10L Receiver: E3C-S10D



### E3C-S50



Emitter: E3C-S50L Receiver: E3C-S50D

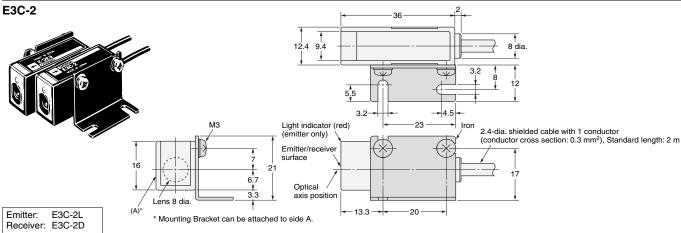


E3C-1

| 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



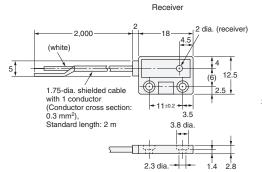
Optical axis position

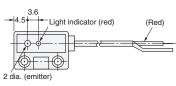
\* Mounting Bracket can be attached to side A.

OMRON 1

### E3C-S20W







[13+r] 13+r]

Emitter

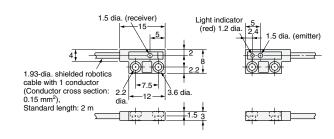
Emitter

Emitter

Emitter: E3C-S20LW Receiver: E3C-S20DW

### E3C-S30W



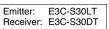


Receiver

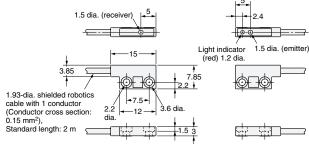
Emitter: E3C-S30LW Receiver: E3C-S30DW

### E3C-S30T





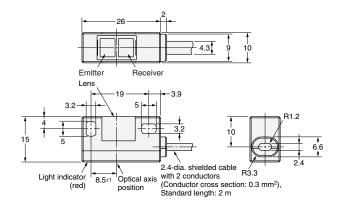
## 1.5 dia. (re



Receiver

### E3C-DS10

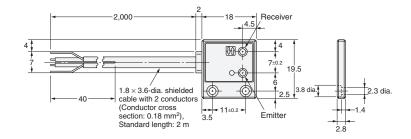




13

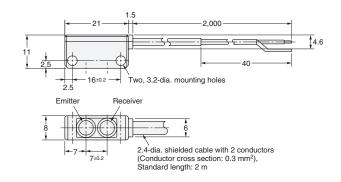
### E3C-DS5W





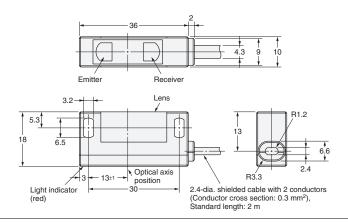
### E3C-DS10T





### E3C-LS3R



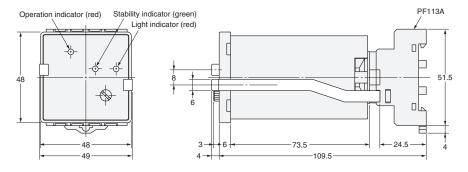


### **Amplifier Units**

### E3C-A E3C-C

E3C-JC4P



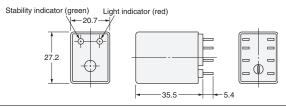


# With Mounting Bracket Attached M2.6 Light indicator Timer mode selector switch Operation selector Sensitivity adjuster Caution label\* 4.5-dia. vinyl-insulated round cable with 4 conductors (Conductor cross section: 0.2mm², Insulator diameter: 1.2mm), Standard length: 2 m Mounting bracket (iron) (detachable) R1.6 Mounting bracket (iron) (detachable)

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

# TMANT SOFT

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 E39-L/F39-L/E39-S/E39-R for details.

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