High Precision Positioning Inductive Proximity Sensor

E2C-EDA

CSM_E2C-EDA_DS_E_7_1

Proximity Sensor with Separate Amplifier Enables Easily Making Highprecision Sensitivity Settings.

- Wide variety of Sensor Heads to select according to the application. Flexible cables are used between Preamplifiers and Amplifier Units of the Sensor Heads.
- High resistance to changes in ambient temperature.
 Temperature characteristics of 0.08%/°C (for 5.4-dia. models).
- Make simple and reliable detection settings with micron-level precision using the teaching function.
- Check the sensing excess gain level on the digital display.
- Support for high-precision positioning and screening with fine positioning to maximize variations.
- The E2C-EDA0 supports an EtherCAT Sensor Communications Unit or CompoNet Sensor Communications Unit.



For the most recent information on models that have been certified for safety standards, refer to your OMRON website.



Be sure to read Safety Precautions on page 10.

Ordering Information

Sensors [Refer to Dimensions on page 12.]

Sensor Heads

Туре	Appea	rance	Sensin	g distance	Repeat accuracy	Cable specification	Model
		3 dia. \times 18 mm	0.6 mm		1 μm	Free cutting *2	E2C-EDR6-F
						Standard *2	E2C-ED01
	Cylindrical	5.4 dia. × 18 mm	1 mm		1 μm	Free cutting *2	E2C-ED01-F
		o. r dia. x ro min			Ι μ	With Protective Spiral Tube *1 *2	E2C-ED01-S
						Standard *2	E2C-ED02
		8 dia. × 22 mm	2 mm		2 μm	Free cutting *2	E2C-ED02-F
Shielded		o dia. x 22 min	2 111111		Σ μ	With Protective Spiral Tube *1 *2	E2C-ED02-S
Siliciaca	Screw				2 μm	Standard *2	E2C-EM02
		M10 × 22 mm	_ 2 mm			Free cutting *2	E2C-EM02-F
						With Protective Spiral Tube *1 *2	E2C-EM02-S
	Flat	30×14×4.8 mm			2 μm	Standard *2	E2C-EV05
						Free cutting *2	E2C-EV05-F
			5 mm			With Protective Spiral Tube *1 *2	E2C-EV05-S
	Screw					Standard *2	E2C-EM07M
						Free cutting *2	E2C-EM07M-F
Unshielded		M18 × 46.3 mm	7 mr	m	5 μm	With Protective Spiral Tube *1 *2	E2C-EM07M-S
	Screw						
leat-resistant		M12 × 22 mm	2 mm		2 μm	Standard *2	E2C-EM02H

^{*1} Ask your OMRON representative for information on the Protective Spiral Tube.

OMRON 1

^{*2} Overall length of free-cut cable: 3.5 m, Length from the Sensor Head to the Preamplifier: 0.5 m (Overall length of the standard cable with Protective Spiral Tube: 2.5 m, Length from the Sensor Head to the Preamplifier: 2 m)

Amplifier Units

Amplifier Units with Cables

	Item	Appearance Functions		Model	
	iteiii	Appearance	Functions	NPN output	PNP output
Advanced models	Twin-output models		Area output, open circuit detection, differential operation	E2C-EDA11 2M	E2C-EDA41 2M
	External-input models		Remote setting, differential operation	E2C-EDA21 2M	E2C-EDA51 2M

Amplifier Units with Wire-saving Connectors (An Amplifier Unit Connector (sold separately) is required.)

	Item	Appearance Functions		Model	
	iteiii	Appearance	FullClions	NPN output	PNP output
Advanced models	Twin-output models		Area output, open circuit detection, differential operation	E2C-EDA6	E2C-EDA8
Advanced models	External-input models		Remote setting, differential operation	E2C-EDA7	E2C-EDA9

Note: These models allow you to use an E3X-DRT21-S VER.3 Sensor Communications Unit. When using the E3X-DRT21-S VER.3, use an E3X-CN02 Connector without a Cable for the Wire-saving Connector.

Amplifier Unit with Connector for EtherCAT or CompoNet Sensor Communications Units [Refer to Dimensions page 16]

	Item	Appearance	Functions	Model	Applicable Sensor Communications Unit
Advanced model	Twin-outout model		Area output, open circuit detection,	E2C-EDA0	E3X-ECT
Advanced model	Twin-output model		differential operation	EZC-EDAU	E3X-CRT

Wire-saving Connectors (Order Separately) Note: Protector seals provided. [Refer to E3X-DA-S/MDA.]

 Item
 Appearance
 Cable length
 No. of conductors
 Model

 Master Connector
 4
 E3X-CN21

 Slave Connector
 2
 E3X-CN22

Ordering Precaution for Amplifier Units with Wire-saving Connectors

A Connector is not provided with the Amplifier Unit.

Refer to the following tables when ordering.

Amplifier Unit						
Model NPN output PNP output						
Advanced models	E2C-EDA6	E2C-EDA8				
Advanced models	E2C-EDA7	E2C-EDA9				

Applicable Connector (Order Separately)				
Master Connector	Slave Connector			
E3X-CN21	E3X-CN22			

When Using 5 Amplifier Units

Amplifier Units (5 Units)

1 Master Connector 4 Slave Connectors

Mobile Console (Order Separately) [Refer to E3X-DA-S/MDA.]

Appearance	Model	Remarks
	E3X-MC11-SV2 (model number of set)	Mobile Console with Head, Cable, and AC adapter provided as accessories
	E3X-MC11-C1-SV2	Mobile Console
	E3X-MC11-H1	Head
	E39-Z12-1	Cable (1.5 m)

Note: Use the E3X-MC11-SV2 Mobile Console with E2C-EDA-series Amplifier Units. If you use a Mobile Console like the E3X-MC11-S, some functions may not operate. For details, refer to *Ratings and Specifications* for E3X-DA-S/MDA.

Accessories (Order Separately)

Mounting Bracket

A Mounting Bracket is not provided with the Amplifier Unit. Order a Mounting Bracket separately if required. [Refer to E39-L, F39-L, E39-S, and E39-R.]

Appearance	Model	Quantity
	E39-L143	1

End Plate

An End Plate is not provided with the Amplifier Unit. Order an End Plate separately if required.

[Refer to PFP-□.]

Appearance	Model	Quantity		
	PFP-M	1		

Extension Cables for Sensor Head

A Mounting Bracket is not provided with the Amplifier Unit. Order an Extension Cable separately if required. [Refer to Dimensions on page 13.]

Cable length	Model	Quantity
2 m	E22-XC2R	1
7 m	E22-XC7R	1

Rating and Specifications

Sensor Heads

		Model	E2C-EDR6-F	E2C-ED01(-□)	E2C-ED02(-□)	E2C-EM02(-□)	E2C-EM07(-□)	E2C-EV05(-□)	E2C-EM02H
Item			3 dia. × 18 mm	5.4 dia. × 18 mm	8 dia. × 22 mm	M10 × 22 mm	M18 × 46.3 mm	30 × 14 × 4.8 mm	M12 × 22 mm
Sensing d	istance		0.6 mm	1 mm	2 mm		7 mm	5 mm	2 mm
Sensing object			Magnetic metal (The sensing distance will decrease when sensing non-magnetic metal. Refer to Engineering Data (Reference Value) on page 6.)						
Standard sensing object			$5 \times 5 \times 3 \text{ mm}$		$10 \times 10 \times 3 \text{ mm}$	1	$22 \times 22 \times 3 \text{ mm}$	$15 \times 15 \times 3 \text{mm}$	$20\times20\times3~\text{mm}$
			Material: iron (S50C)	"				
Repeat ac	curacy 🌟	1	1 μm		2 μm		5 μm	2 μm	
Hysteresis			Variable		"				
Tempera-	Sensor	Head	0.3%/°C	0.08%/°C				0.04%/°C	0.2%/°C
ture char- acteristic *1	Preamp Amplifie	lifier and er	0.08%/°C						
Ambient	Operation	ng	-10°C to 60°C	(with no icing or	condensation)				−10°C to 200°C * 3
tempera- ture *2	Storage		-10°C to 60°C (with no icing or condensation) -20°C to 70°C (with no icing or condensation)						
Ambient h	umidity		Operating/storage: 35% to 85% (with no condensation)						
Insulation	resistan	се	50 MΩ min. (at 500 VDC)						
Dielectric	strength		1,000 VAC at 50/60 Hz for 1 min between current carry parts and case						
Vibration	resistanc	е	Destruction: 10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions						
Shock res	istance		Destruction: 500 m/s² for 3 times each in X, Y, and Z directions						
Degree of	protectio	n	IEC60529 IP67					IEC60529 IP60 *4	
Connection	n method	t	Connector (standard cable length: 2.5 m (2 m between Head and Preamplifier) "-F" model cable length: 3.5 m (0.5 m between Head and Preamplifier)						
Weight (pa	acked sta	te)	Approx. 120 g	(Models with pro	tective spiral tub	e ("-S" models)	are approx. 90	g heavier.)	
		Case	Brass	Stainless steel	Brass			Zinc	Brass
	Sensor	Sensing surface	Heat-resistant	ABS				1	PEEK
Material	Head	Clamping nut				Nickel-plated b	rass		Nickel-plated brass
		Toothed washer				Zinc-plated iror	1		Zinc-plated iron
	Preamp	lifier	PES						
Accessori	es		Preamplifier Mo	ounting Brackets	s, Instruction Ma	nual			
tod The new				at and attended to a			and the state of t	annala da a aata da a	

^{*1} The repeat accuracy and temperature characteristic are for a standard sensing object positioned midway through the rated sensing distance.
*2 A sudden temperature rise even within the rated temperature range may degrade characteristics.
*3 For the Sensor Head only without the preamplifier (-10 to 60°C). With no icing or condensation.
*4 Do not operate in areas exposed to water vapor because the enclosure is not waterproof.

Amplifier Units

Туре		Ad	vanced Models with		Advanced Models with External Inputs				
		Pre-wired Model	Model with Wire- saving Connector	Model for Sensor Communications Unit	Pre-wired Model	Model with Wire- saving Connector			
Model	NPN output	E2C-EDA11	E2C-EDA6	E2C EDA0 *4	E2C-EDA21	E2C-EDA7			
Item	PNP output	E2C-EDA41	E2C-EDA8	E2C-EDA0 *1	E2C-EDA51	E2C-EDA9			
Supply volt	age	12 to 24 VDC ±10	%, ripple (p-p): 10% n	nax.		1			
Power cons	umption	1,080 mW max. (c	urrent consumption: 4	45 mA at power supply voltage	of 24 VDC)				
Control out	put	Load power supply voltage: 1 V max.)	voltage: 26.4 VDC m	ax.; NPN/PNP open collector of	utput; load current	: 50 mA max. (residual			
	Super-high- speed mode *2	150 μs for operation respectively	150 μs for operation and reset respectively 150 μs for operation and reset respectively						
Response	High-speed mode	300 μs for operation	on and reset respective	/ely					
time	Standard mode	1 ms for operation	and reset respectivel	ly					
	High-resolution mode	4 ms for operation	and reset respectivel	ly					
	Differential detection	Single edge: Can I	pe set to 300 μs, 500	puble edge detection mode µs, 1 ms, 10 ms, or 100 ms ns, 2 ms, 20 ms, or 200 ms.					
	Timer function	Select from OFF-delay, ON-delay, or one-shot timer. 1 ms to 5 s (1 to 20 ms set in 1-ms increments, 20 to 200 ms set in 10-ms increments, 200 ms to 1 s set in 100-ms increments, and 1 to 5 s set in 1 s-increments)							
	Zero-reset	Negative values can be displayed. (Threshold is not shifted.)							
Functions	Initial reset	Settings can be returned to defaults as required.							
	Mutual interference prevention	Possible for up to 5 Units. *2 Intermittent oscillation method (Response time = (number of Units connected + 1) ×15 ms)							
	Hysteresis settings	Setting range: 10 to 4,000							
	I/O settings	Output setting (Se diagnosis, or open		utput, area output, self-	Input setting (Select from teaching, fine positioning, zero-reset, synchronous detection.)				
Digital disp	lay	Select from the following: Incident level + threshold, incident level percentage +threshold, incident light peak level + incident light bottom level (updated with output), long bar display, incident level + peak hold, incident level + channel							
Display orie	entation	Switching between	normal/reversed dis	play is possible.					
			onnecting 1 to 2 Units: –10°C to 55°C, When connecting 3 to 5 Units: –10°C to 50°C, onnecting 6 to 16 Units: –10°C to 45°C						
Ambient ter	mperature *3	When used in combination with an EDR6-F When connecting 3 to 4 Units: -10°C to 50°C, When connecting 5 to 8 Units: -10°C to 45°C, When connecting 9 to 16 Units: -10°C to 40°C							
		Storage: -20°C to 70°C (with no icing)							
Ambient hu		Operating/storage: 35% to 85% (with no condensation)							
Insulation r		20 MΩ min. (at 500 VDC)							
Dielectric s	rength	1,000 VAC at 50/6		1	1				
Vibration re (Destruction		10 to 55 Hz with a amplitude for 2 hou Z directions	1.5-mm double urs each in X, Y, and	10 to 150 Hz with a 0.7-mm double amplitude for 80 min each in X, Y, and Z directions	10 to 55 Hz with a 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions				
Shock resis		500 m/s ² for 3 time directions	s each in X, Y, and Z	150 m/s² for 3 times each in X, Y, and Z directions					
Degree of p	rotection	IEC60529 IP50							
Connection	method	Pre-wired	Wire-saving connector	Connector for Sensor Communications Unit	Pre-wired	Wire-saving connector			
Weight (pag	ked state)	Approx. 100 g	Approx. 55 g	Approx. 55 g	Approx. 100 g	Approx. 55 g			
Material	Case	PBT (polybutylene	terephthalate)	·	· <u></u>	· -			
Material	Cover	Polycarbonate							
ALC THE I		-0V FOT F#OAT O	naar Cammuniaatiana I	Init or EQV CDT CompoNot Consor	0	14			

This model allow you to use an E3X-ECT EtherCAT Sensor Communications Unit or E3X-CRT CompoNet Sensor Communications Unit.

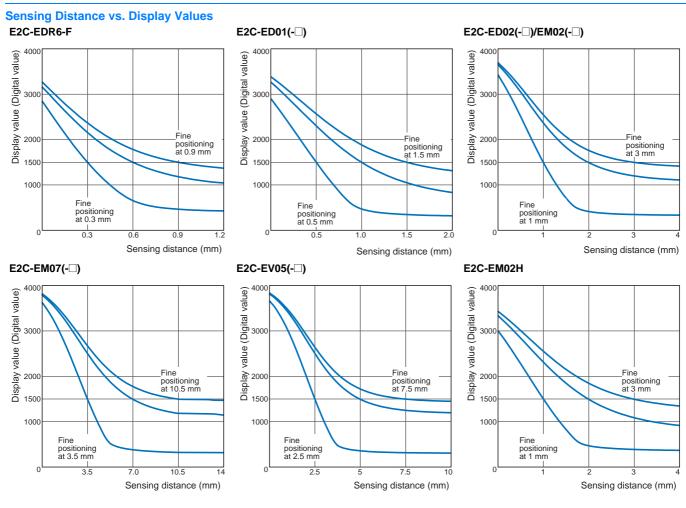
Communications functions, mutual interference prevention, and communications with the Mobile Console are all disabled if the detection mode is set to the super-

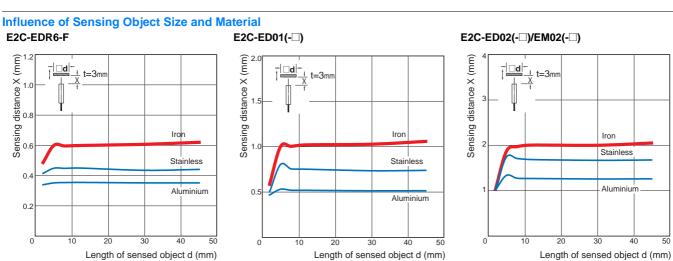
high-speed mode.

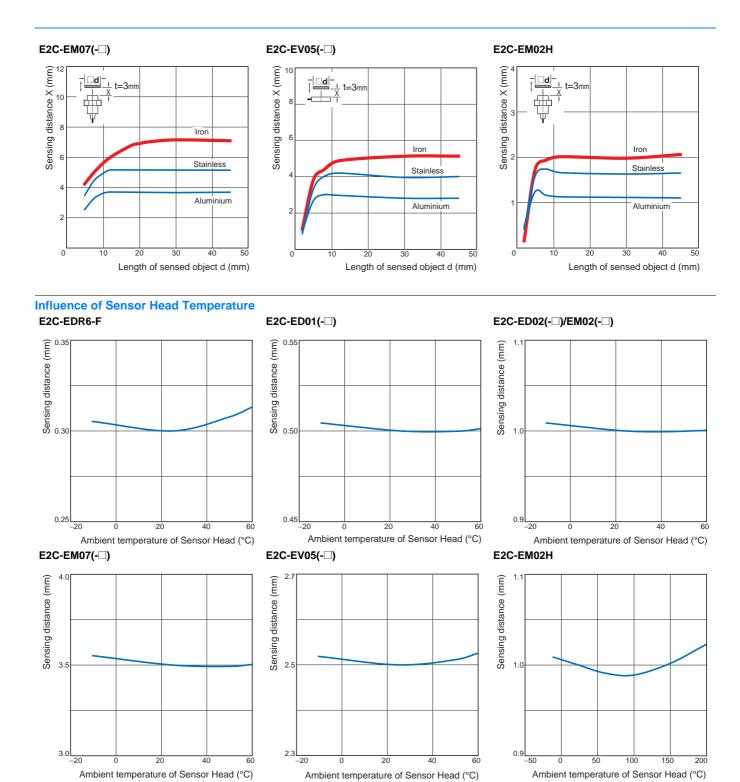
The following temperature ranges apply for operation when an E3X-ECT or E3X-CRT Sensor Communications Unit is used with the E2C-EDA0: Groups of 1 or 2 Amplifier Units: 0 to 55°C, Groups of 3 to 5 Amplifier Units: 0 to 50°C, Groups of 6 to 16 Amplifier Units: 0 to 45°C, Groups of 17 to 30 Amplifier Units (with the E3X-ECT): 0 to 40°C.

The following temperature ranges apply when an E3X-ECT or E3X-CRT Sensor Communications Unit is used with the E2C-EDR6-F: Groups of 3 or 4 Amplifier Units: 0 to 50°C, Groups of 5 to 8 Amplifier Units: 0 to 45°C, Groups of 7 to 30 Amplifier Units: 0 to 45°C, Groups of 5 to 8 Amplifier Units: 0 to 45°C, Groups of 9 to 16 Amplifier Units: 0 to 40°C, Groups of 17 to 30 Amplifier Units (with the E3X-ECT): 0 to 35°C.

Engineering Data (Reference Value)







I/O Circuit Diagrams

NPN Output

Model	Operation mode	Timing chart	Mode selector	Output circuit
E2C-EDA11 E2C-EDA6	NO (Normally open)	Sensing object No Operation Lit indicator (orange) Output ON transistor OFF Load Operate (relay, etc.) Reset (Between brown and black lines)	NO	Öperation indicator Operation indicator Display (orange) ch1 OO Display (orange) ch2 Brown Black Load → Control output Load Orange 12 to 24
	NC (Normally closed)	Sensing object No Operation Lit indicator (orange) Not lit ON transistor OFF Load Operate (relay, etc.) Reset (Between brown and black lines)	NC	Sensor Main Circuits Sensor Main Circuits Blue
E2C-EDA21 E2C-EDA7	NO (Normally open)	Sensing object No Operation Lit indicator (orange) Not lit Output transistor OFF Load Operate (relay, etc.) Reset (Between brown and black lines)	NO	Fine positioning indicator Operation (orange) Display Brown Black Load Load Control output 12 to 24
	NC (Normally closed)	Sensing object No Operation indicator (orange) Not lit ON transistor OFF Load Operate (relay, etc.) Reset (Between brown and black lines)	NC	Black Control output 12 to 24 Corange External input Blue

Note: 1. Setting Areas for Twin-output Models

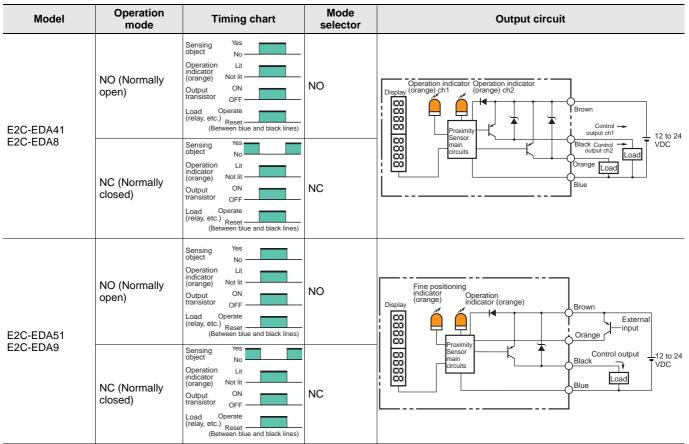
Normally open:ON between the thresholds for Channel 1 and Channel 2

Normally closed: ..OFF between the thresholds for Channel 1 and Channel 2

2. Timing Charts for Timer Settings (T: Set Time)

ON delay	OFF delay	One shot	
Sensing Yes object No ON OFF OFF OFF	Sensing Yes object No ON OFF OFF OFF	Sensing No ON OFF OF OFF	

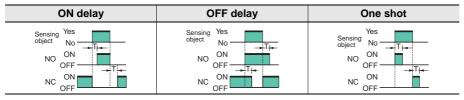
PNP Output



Note: 1. Setting Areas for Twin-output Models

Normally open: ON between the thresholds for Channel 1 and Channel 2 Normally closed: .. OFF between the thresholds for Channel 1 and Channel 2

2. Timing Charts for Timer Settings (T: Set Time)

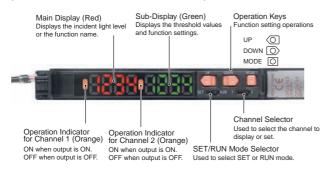


Nomenclature

Amplifier Units

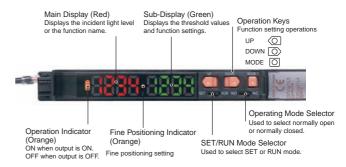
Twin-output Models

(E2C-EDA11/EDA41/EDA6/EDA8/EDA0)



External-input Models

(E2C-EDA21/EDA51/EDA7/EDA9)



Safety Precautions

Refer to Warranty and Limitations of Liability.

MARNING

Do not use this product in any safety device used for the protection of human lives.



Precautions for Correct Use

Do not use this product in operating atmospheres or environments outside the specified ratings.

Amplifier Units

Design

Power ON

The Sensor is ready to sense an object within 200 ms after turning the power ON. If the load and Sensor are connected to different power supplies, always turn ON the Sensor power first.

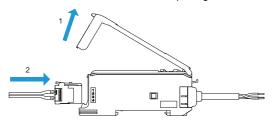
Cable

Use an external power cable of cross-section of $0.3~\text{mm}^2$ or more for the Amplifier, and the total length of the cable must be 30 m or less.

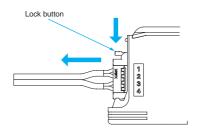
Connecting Sensor Heads

Connecting and Disconnecting Sensor Heads

- 1. Open the protective cover.
- Making sure that the lock button is up, insert the fibers all the way to the back of the Connector insertion opening.



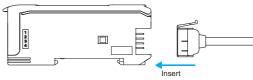
To disconnect the Sensor Head, pull out the fibers while pressing on the lock button.



Connecting and Disconnecting Wire-saving Connectors

<Connecting Connectors>

 Insert the Master or Slave Connector into the Amplifier Unit until it clicks into place.



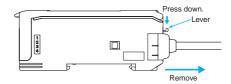
Apply the supplied seal to the non-connection surface of the Master/Slave Connector.



Note: Apply the seal to the grooved side.

<Disconnecting Connectors>

- 1. Slide the Slave Amplifier Unit.
- After the Amplifier Unit has been separated, press down on the lever on the Connector and remove it. (Do not attempt to remove Connectors without separating them from other Amplifier Units first.)



Installing and Removing Amplifier Units

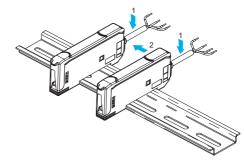
<Installing Amplifier Units>

1. Install the Units one by one to the DIN rail.



Sensor Head Connector Clips

Slide one Unit toward the other, match the clips at the front ends, and then bring them together until they "click."



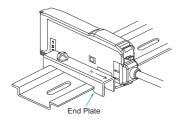
<Removing Amplifier Units>

Slide one Unit away from the other and remove them one by one. (Do not remove the connected Units together from the DIN rail.)

- Note: 1. When the Amplifier Units are connected to each other, the operable ambient temperature changes depending on the number of connected Amplifier Units. Check page 5 in Rating and Specifications.
 - 2. Before connecting or disconnecting the Units, always switch power OFF.

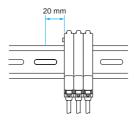
End Plate Mounting (PFP-M)

Mount End Plates on Amplifier Units to avoid movement due to vibration. When a Mobile Console is installed, mount the End Plate facing as shown in the following diagram.



Mounting a Communications Head for the Mobile Console

Leave a space of at least 20 mm on the left side of the Units for a Mobile Console Communications Head.



EEPROM Write Error

If the data is not written to the EEPROM correctly due to a power failure or static-electric noise, initialize the settings using the keys on the Amplifier Unit.

Optical Communications

When using more than one Amplifier Unit, mount the Units side-byside. Do not slide or remove Units while they are in use.

Miscellaneous

Protective Cover

Be sure to put on the Protective Cover before use.

Mobile Console

Use the E3X-MC11-SV2 Mobile Console for E2C-EDA-series Amplifier Units. Other Mobile Consoles, such as the E3X-MC11, cannot be used.

Sensor Head and Amplifier Unit Connection

Be sure to use only specified Sensor Head and Amplifier Unit combinations. The E3C-LDA-series Photoelectric Sensor with Separate Digital Amplifier is not compatible, and the E2C-EDA must not be used with products from that series.

Warm-up

The digital display will slowly change until the circuits stabilize after the power is turned ON. It takes about 30 minutes after the power is turned ON before the E2C-EDA is ready to sense.

Maintenance Inspection

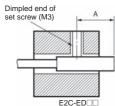
- Be sure to turn OFF the power before adjusting, connecting, or disconnecting the Sensor Head.
- Do not use thinner, benzene, acetone, or kerosene to clean the Sensor Head or Amplifier Unit.

Sensor Heads Mounting

Mounting Sensor Heads

 Use the dimensions from the following table to mount unthreaded cylindrical models (E2C-ED-□□). Do not tighten screws with torque exceeding 0.2 N·m when mounting Sensor Heads.

Model	Tightening range A
E2C-EDR6-F	9 to 18 mm
E2C-ED01□□	9 to 18 mm
E2C-ED02□□	11 to 12 mm



 Use the torque given in the following table to tighten threaded cylindrical models (E2C-EM□□).

Model	Tightening torque	
E2C-EM02	15 N·m max.	
E2C-EM07M□□	15 N·m max.	
E2C-EM02H□□	5.9 N⋅m max.	

- Do not use torque exceeding 0.5 N·m to tighten screws when mounting flat models (E2C-EV□□).
- Use a bending radius of at least 8 mm for the Sensor Head cable.
- Use only the special extension cable to extend the cable between the Sensor Head and the Amplifier Unit.

Model	Cable length	
E22-XC2R	2 m	
E22-XC7R	7 m	

Effects of Surrounding Metal

 Provide a minimum distance between the Sensor and the surrounding metal as shown in the table below.

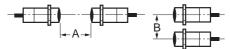
Effects of Surrounding Metal (Units: mm)

Model	Counterbore A	Protrusion B
E2C-EDR6-F	3.1	0
E2C-ED01□□	5.4	0
E2C-ED02	8	0
E2C-EM02□□	10	0
E2C-EM07M□□	35	20
E2C-EV05	14 × 30	4.8
E2C-EM02H	12	0



Mutual Interference

- If more than one Sensor Head is installed face to face or in parallel, make sure that the distances between two Units adjacent to each other are the same as or larger than the corresponding values shown in the following table.
- The distance between Sensor Heads may be narrower than specified with these Sensors because the Mutual Interference Prevention Function is used for optical communications between the Amplifier Units.



Mutual Interference

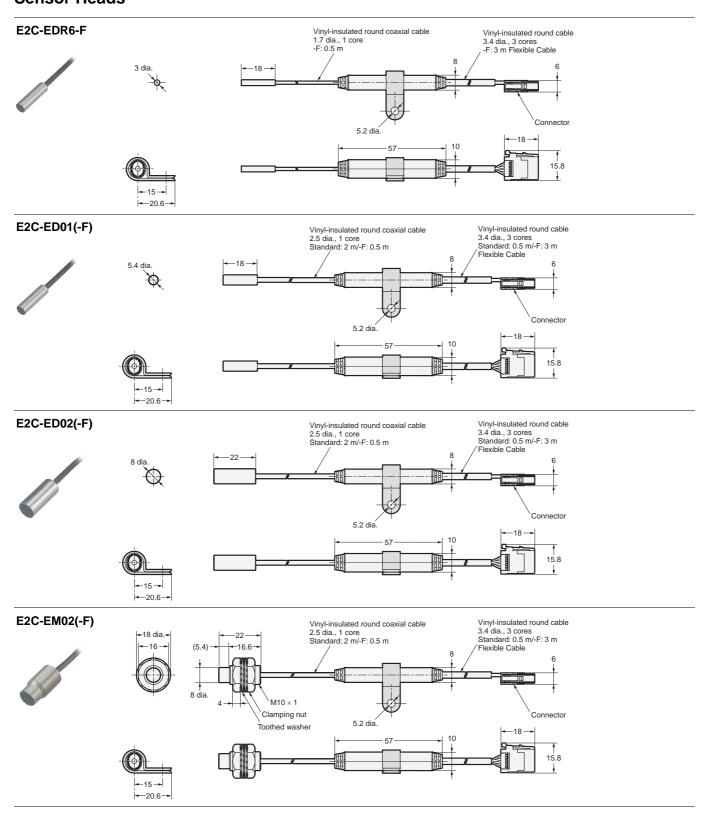
(Units: mm)

Model	Face-to-face arrangement A	Parallel arrangement B	Face-to-face arrangement using the Mutual Interference Prevention Function A'	Parallel arrangement using the Mutual Interference Prevention Function B'
E2C-EDR6-F	14	10	3.5	3.1
E2C-ED01□□	45	20	9	5.4
E2C-ED02□□	35	30	21	8 *
E2C-EM02□□	36	30	21	10 *
E2C-EM07M	140	120	35	18 *
E2C-EV05□□	65	30	21	14 *
E2C-EM02H□□	45	30	21	12 *

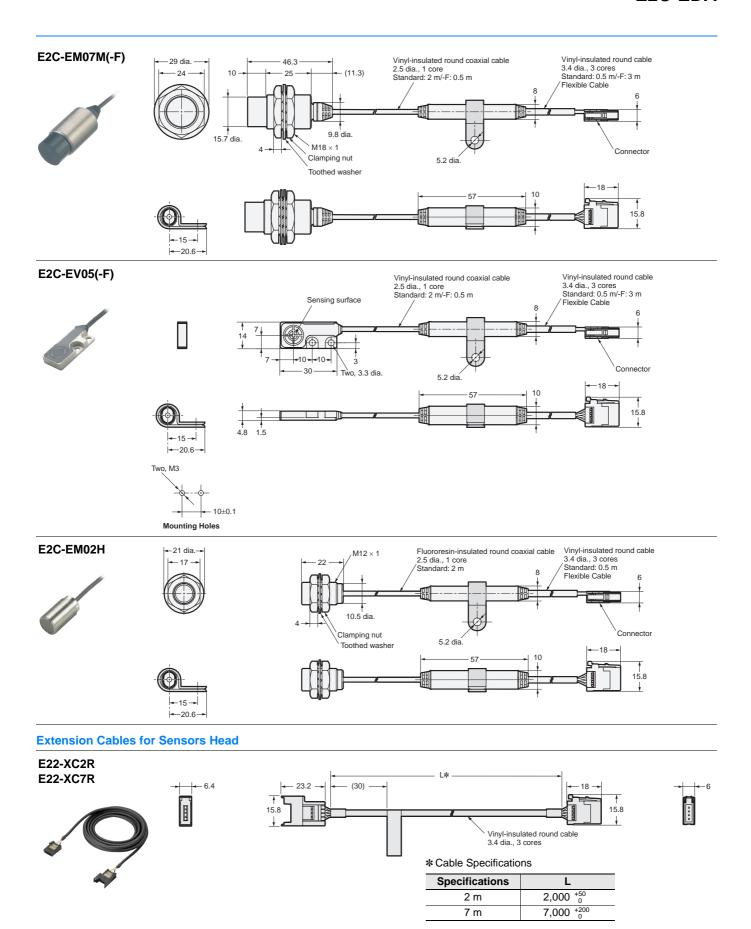
^{*} Mutual interference does not occur for close-proximity mounting when the Mutual Interference Prevention Function is effective.

(Unit: mm)

Sensor Heads

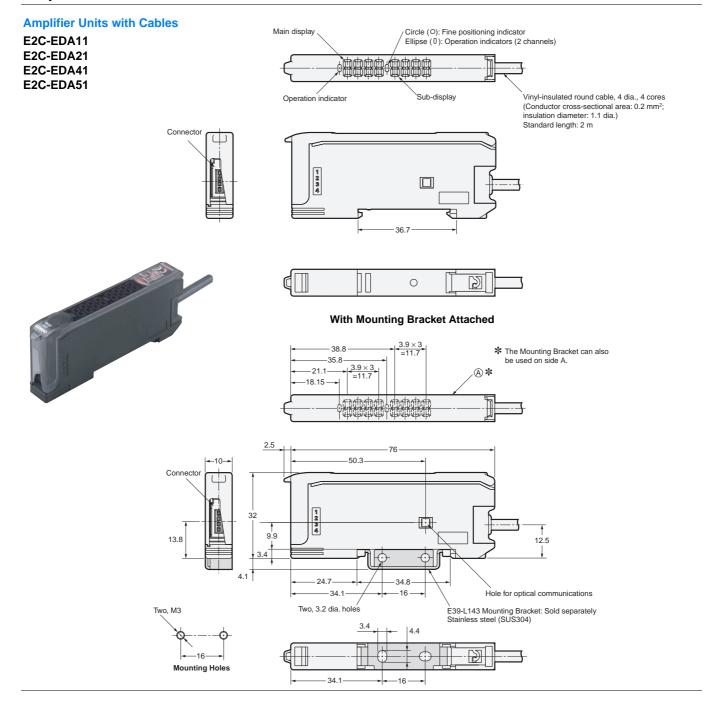


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Amplifier Units

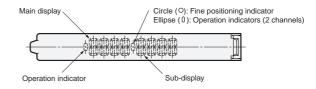


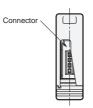
Amplifier Units with Wire-saving Connectors

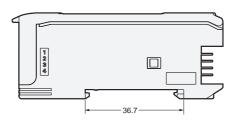
E2C-EDA6

E2C-EDA7 E2C-EDA8

E2C-EDA9



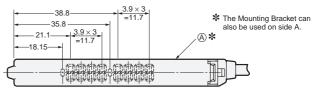


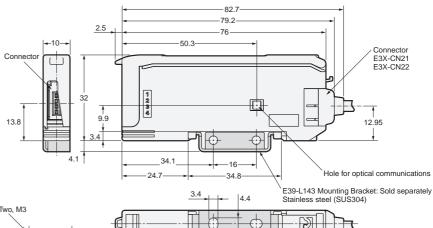






With Mounting Bracket Attached



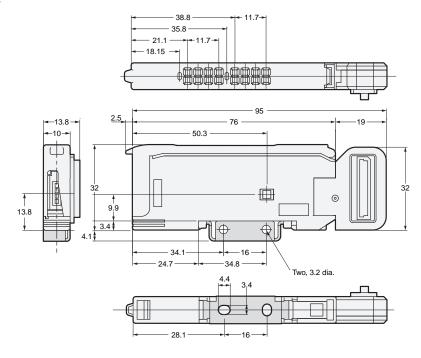




Amplifier Unit with Connector for Sensor Communications Unit E2C-EDA0







Amplifier Unit Connectors

Refer to E3X-DA-S/MDA for details.

Mobile Console

Refer to E3X-DA-S/MDA for details.

Accessories (Order Separately)

Mounting Brackets

Refer to E39-L for details.

End Plate

Refer to DIN rail for details.

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