

E2C-EDA

Finally, a Digital Proximity Sensor!

- An impressive lineup of Sensor Heads to handle a wide variety of applications.
An array of Heads.
Flexible cables provided as a standard feature.
- High-resolution sensing unaffected by environmental swings. Excellent temperature characteristics at 0.08%/°C (5.4-mm dia. Sensor Head).
- Simple and reliable measurements with micron-level resolution.
Two clear, large, and easy-to-read digital displays.
- Support for high-resolution positioning and screening.
Fine positioning maximizes digital changes.



Proximity Sensors

Sensing Guide

⚠ Be sure to read *Safety Precautions* on page 858.

Cylindrical Models

Features

An Impressive Lineup of Sensor Heads to Handle a Wide Variety of Applications

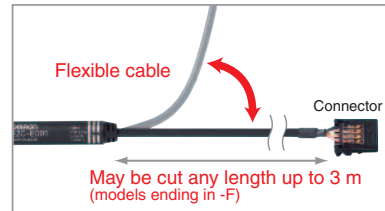
An Array of Heads

The lineup includes some Sensor Heads as thin as 3 mm in diameter and others that are thin and flat. Narrow installation spaces are not a problem for these models. Still other Sensor Heads are heat resistant or rated IP67 for superior environmental resistance. These models are capable of high-resolution sensing even in harsh environments.



Flexible Cables Provided as a Standard Feature

With flexible cables connecting the Preamplifier to the Amplifier, installation on moving parts is never a problem. The twin-output models can also output an open-circuit alarm. In that rare instance where the cable breaks, the E2C-EDA can then send out an alarm that greatly simplifies the task of locating the faulty Sensor.



Rectangular Models

Separate Amp/Pre-wired Connector Models

Capacitive Models

Others

Peripheral Devices

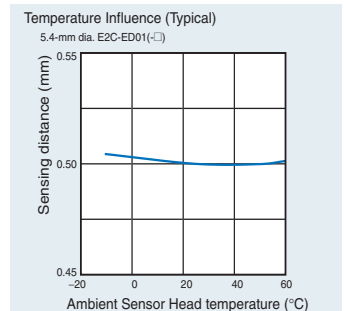
General Information

High-resolution Sensing Unaffected by Environmental Swings

Industry Leader

Excellent Temperature Characteristics at 0.08%/°C (5.4-mm-Dia. Sensor Head)

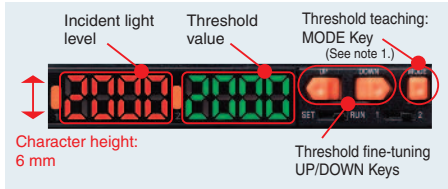
In addition to repeat accuracy of 1-μm or better, the temperature characteristics of the E2C-EDA are flat. This means that environmental factors, such as temperature swings in the morning and at night, will not affect high-resolution positioning and screening.



Simple and Reliable Measurements with Micron-level Resolution. Industry First

Two Clear, Large, and Easy-to-Read Digital Displays.

The E2C-EDA features two large, easy-to-read digital displays. Since the digitized detected and threshold values can be checked at the same time, settings are simple and reliable for just about anyone. Various teaching methods are also available for settings that cannot be made consistently by different operators.



Note 1: The operation of the MODE Key can be changed during operation to teaching values, fine positioning, or zero resetting.

Digital Display Simplifies Installation and Settings

In the stable sensing zone, the E2C-EDA generally reads 1,500 or higher (see note 2).

This way you can tell at a glance whether the current installation and settings are within the optimal range.

Note 2: This reading is only a guideline because there may be some variation between Sensors. Also refer to the Engineering Data because values may vary with non-standard sensing objects.



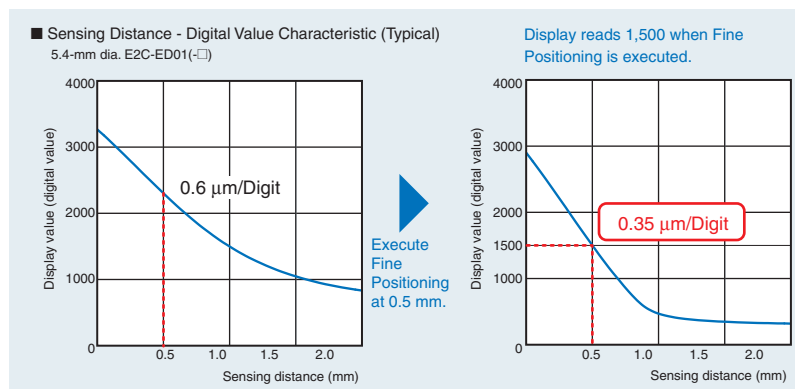
Connector for Connecting Sensor Heads to Amplifiers

A Shielded Connector is used for more reliable wiring and easier cable handling. Since the press-fit connector allows repeat connections, wiring and head replacement are simple and reliable.

Support for High-resolution Positioning and Screening Patent Pending

Fine Positioning Maximizes Digital Changes

Fine Positioning maximizes changes in the digital value as you get closer to the sensing point. More precise sensing can be achieved by executing Fine Positioning with the workpiece positioned at the point to be maximized.



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E2C-EDA

Ordering Information

Sensors

Sensor Heads

Type	Appearance	Sensing distance	Repeat accuracy	Model	
Cylindrical		3 dia. × 18 mm	0.6 mm	1 μm	E2C-EDR6-F *2
		5.4 dia. × 18 mm	1 mm	1 μm	E2C-ED01-□ *1*2*3
		8 dia. × 22 mm	2 mm	2 μm	E2C-ED02-□ *1*2*3
Shielded	Screw 	M10 × 22 mm	2 mm	2 μm	E2C-EM02-□ *1*2*3
		Flat 	30 × 14 × 4.8 mm	5 mm	2 μm
Unshielded	Screw 	M18 × 46.3 mm	7 mm	5 μm	E2C-EM07M-□ *1*2*3
Heat-resistant	Screw 	M12 × 22 mm	2 mm	2 μm	E2C-EM02H *2


*1. A Protective Spiral Tube is provided with models ending in the suffix -S (example: E2C-ED01-S).

*2. Two cable lengths are available. (3-dia.: Free-cut, Heat-resistant Models: Standard-length only) Overall length of the Standard-length Models: 2.5 m, Length from the Sensor Head to the Pre-amplifier: 2.0 m (example: E2C-ED01). Overall length of Free-cut Models: 3.5 m, Length from the Sensor Head to the Pre-amplifier: 0.5 m for models ending in the suffix -F (example: E2C-ED01-F).


*3. Models ending in the suffix -S that come with Protective Spiral Tubes and Free-cut Models ending in the suffix -F are made-to-order products.

Amplifier Units

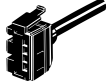
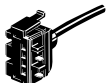
Pre-wired Models

Type	Appearance	Functions	Model	
			NPN output	PNP output
Advanced models		Area output, open circuit detection, differential operation	E2C-EDA11	E2C-EDA41
		Remote setting, differential operation	E2C-EDA21	E2C-EDA51

Connector Models

Type	Appearance	Functions	Model	
			NPN output	PNP output
Advanced models		Area output, open circuit detection, differential operation	E2C-EDA6	E2C-EDA8
		Remote setting, differential operation	E2C-EDA7	E2C-EDA9

Amplifier Unit Connectors (Order Separately)

Name	Appearance	Cable length	No. of conductors	Model
Master Connector		2 m	4	E3X-CN21
Slave Connector			2	E3X-CN22

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Connector Ordering Precaution





Amplifier Units and Connectors are sold separately.
Refer to the following tables when placing an order.

Amplifier Unit			Applicable Connector (Order Separately)	
Model	NPN output	PNP output	Master Connector	Slave Connector
Advanced models	E2C-EDA6	E2C-EDA8	E3X-CN21	E3X-CN22
	E2C-EDA7	E2C-EDA9		

When Using 5 Amplifier Units

5 Amplifier Units	+	1 Master Connector	4 Slave Connectors
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
Mobile Console (Order Separately)

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)

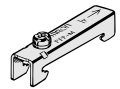
Note: Use the E3X-MC11-SV2 Mobile Console with E2C-EDA-series Amplifier Units. If you use a Mobile Console like the E3X-MC11-S, some functions may not operate. Refer to *Ratings/Characteristics* for the E3X-DA-S/MDA on page 69 for Amplifier Unit specifications.

Accessories (Order Separately)

Mounting Bracket

Appearance	Model	Quantity
	E39-L143	1

End Plate

Appearance	Model	Quantity
	PFP-M	1

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E2C-EDA

Ratings and Specifications

Sensor Heads

Model	E2C-EDR6-F	E2C-ED01(-□)	E2C-ED02(-□)	E2C-EM02(-□)	E2C-EM07M(-□)	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 distance	0.6 mm	1 mm	2 mm		7 mm	5 mm	2 mm	
Sensing object	Ferrous metal (The sensing distance decreases with non-ferrous metal, refer to <i>Engineering Data</i> on pages 854 and 855.)							
Standard sensing object	5 × 5 × 3 mm		10 × 10 × 3 mm		22 × 22 × 3 mm	15 × 15 × 3 mm	20 × 20 × 3 mm	
	Material: Iron (S50C)							
Repeat accuracy *1	1 μm		2 μm		5 μm	2 μm		
Differential travel	Variable							
Temperature characteristic *1	Sensor Head	0.3%/°C	0.08%/°C			0.04%/°C	0.2%/°C	
	Preamplifier and Amplifier	0.08%/°C						
Ambient temperature *2	Operating	-10 to 60°C (with no icing or condensation)					-10 to 200°C *3	
	Storage	-10 to 60°C (with no icing or condensation)	-20 to 70°C (with no icing or condensation)					
Ambient humidity	Operating/Storage: 35% to 85% (with no condensation)							
Insulation resistance	50 MΩ min. at 500 VDC							
Dielectric strength	1,000 VAC, 50/60 Hz for 1 min between current-carrying parts and case							
Vibration resistance	Destruction: 10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions							
Shock resistance	Destruction: 500 m/s ² 3 times each in X, Y, and Z directions							
Degree of protection	IEC 60529 IP67						IEC 60529 IP60 *4	
Connection method	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 (packed state)	Approx. 120 g (Models with protective spiral tube (-S models) are approx. 90 g heavier.)							
Materials	Sensor Head	Case	Brass	Stainless steel	Brass	Zinc	Brass	
		Sensing surface	Heat-resistant ABS					PEEK
		Clamping nuts	---			Brass, nickel-plated	---	
		Toothed washer	---			Zinc-plated iron	---	
	Preamplifier	PES						
Accessories	Preamplifier Mounting Brackets, instruction manual							

*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 the Sensor in areas exposed to water vapor because the enclosure is not waterproof.

E2EC

E2C-EDA

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Amplifier Units

Model		Advanced Models with Twin Outputs		Advanced Models with External Inputs	
Model	NPN output	E2C-EDA11	E2C-EDA6	E2C-EDA21	E2C-EDA7
Item	PNP output	E2C-EDA41	E2C-EDA8	E2C-EDA51	E2C-EDA9
Power supply voltage		12 to 24 VDC \pm 10%, ripple (p-p): 10% max.			
Power consumption		1,080 mW max. (Current consumption: 45 mA at power supply voltage of 24 VDC)			
Control output		Load power supply voltage: 26.4 VDC max., Open-collector output (NPN or PNP depending on model), Load current: 50 mA max. (Residual voltage: 1 V max.)			
Re-sponse time	Super-high-speed mode *	Operate or reset: 150 μ s max.			
	High-speed mode	Operate or reset: 300 μ s max.			
	Standard mode	Operate or reset: 1 ms max.			
	High-resolution mode	Operate or reset: 4 ms max.			
Func-tions	Differential detection	Switchable between single edge and double edge detection mode. Single edge: Can be set to 300 μ s, 500 μ s, 1 ms, 10 ms, or 100 ms. Double edge: Can be set to 500 μ s, 1 ms, 2 ms, 20 ms, or 200 ms.			
	Timer	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.)			
	Initial reset	Settings can be returned to defaults as required.			
	Mutual interference prevention	Possible for up to 5 Units.* Intermittent oscillation method (Response time = (number of Units connected + 1) \times 15 ms)			
	Hysteresis setting	Setting range: 10 to 4,000			
	I/O settings	Output setting (Select from channel 2 output, area output, self-diagnosis, or open circuit detection.)		Input setting (Select from teaching, fine positioning, zero-reset, synchronous detection.)	
Digital display		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 orientation		Switching between normal/reversed display is possible.			
Ambient temperature		Operating: When connecting 1 to 2 Units: -10°C to 55°C , When connecting 3 to 5 Units: -10°C to 50°C , When connecting 6 to 16 Units: -10°C to 45°C 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 to 70°C (with no icing)			
Ambient humidity		Operating/storage: 35% to 85% (with no condensation)			
Insulation resistance		20 M Ω min. at 500 VDC			
Dielectric strength		1,000 VAC, 50/60 Hz for 1 min			
Vibration resistance		Destruction: 10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions			
Shock resistance		Destruction: 500 m/s ² 3 times each in X, Y, and Z directions			
Degree of protection		IEC 60529 IP50			
Connection method		Pre-wired Models	Connector Models	Pre-wired Models	Connector Models
Weight (packed state)		Approx. 100 g	Approx. 55 g	Approx. 100 g	Approx. 55 g
Materials	Case	PBT			
	Cover	Polycarbonate			

* Communications are disabled if the super-high-speed sensing mode is selected, and the mutual interference prevention function and the communications functions for the Mobile Console will not function.

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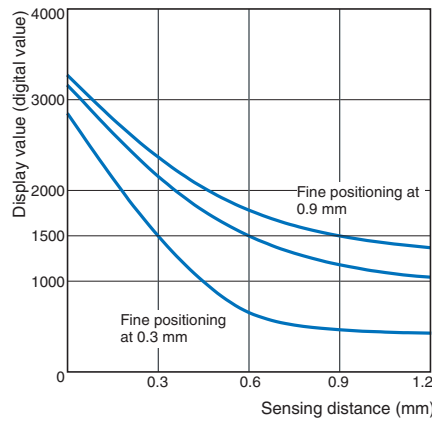
E2CY

E2C-EDA

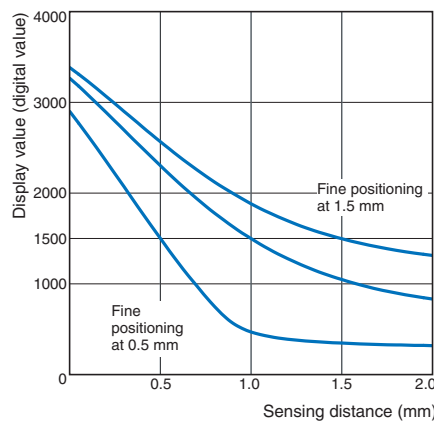
Engineering Data (Typical)

Sensing Distance vs. Display Values

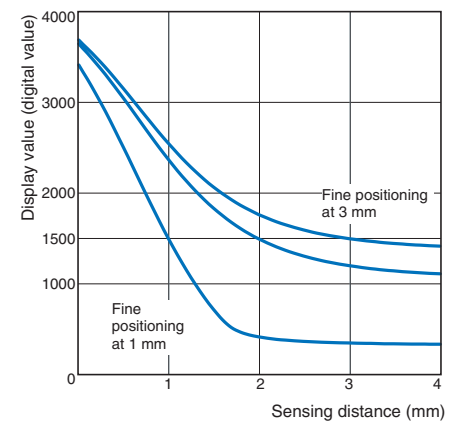
E2C-EDR6-F



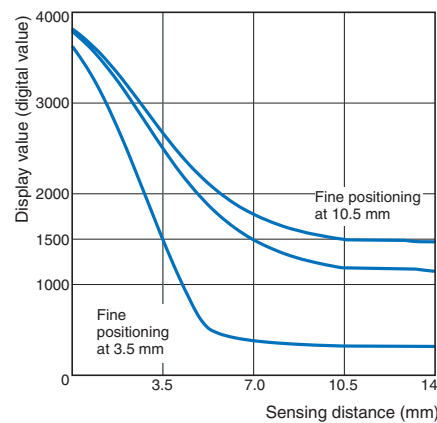
E2C-ED01(-□)



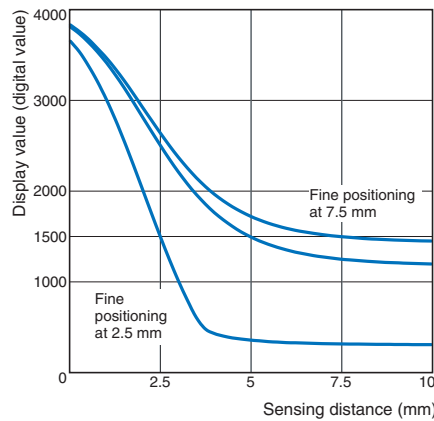
E2C-ED02(-□)/EM02(-□)



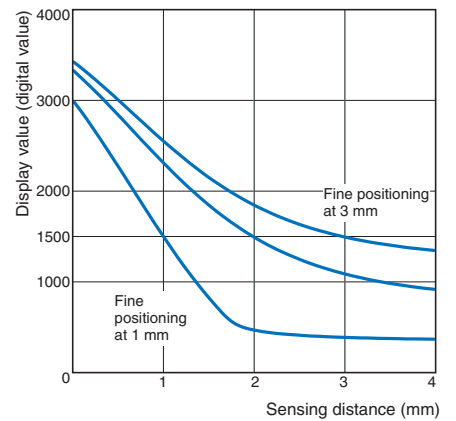
E2C-EM07M(-□)



E2C-EV05(-□)



E2C-EM02H



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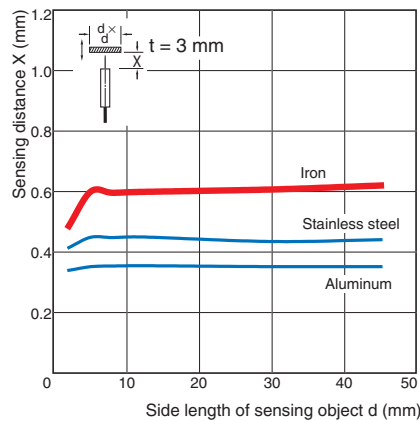
E2C

/E2C-H

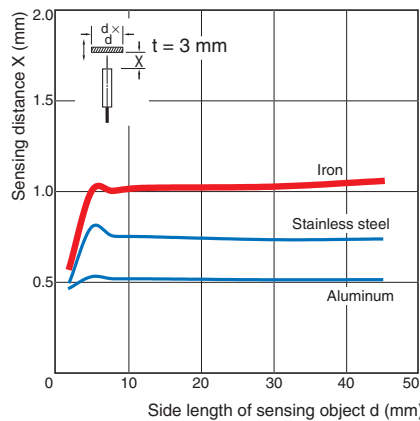
E2CY

Influence of Sensing Object Size and Material

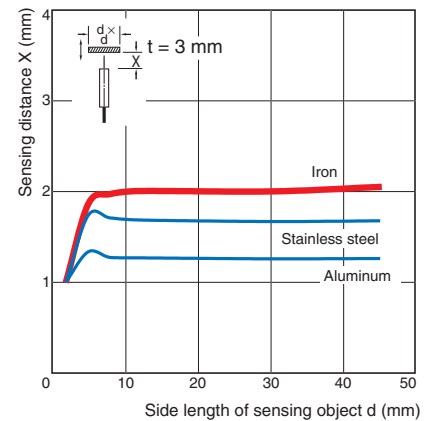
E2C-EDR6-F



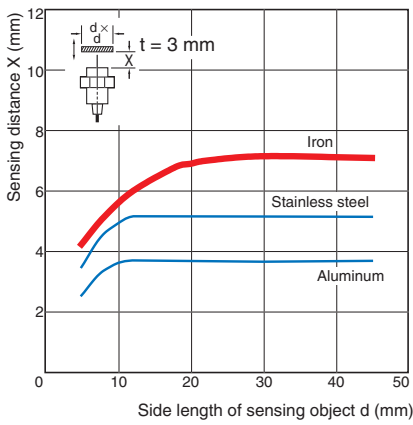
E2C-ED01(-□)



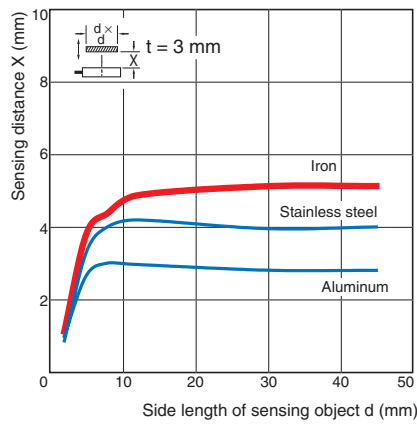
E2C-ED02(-□)/EM02(-□)



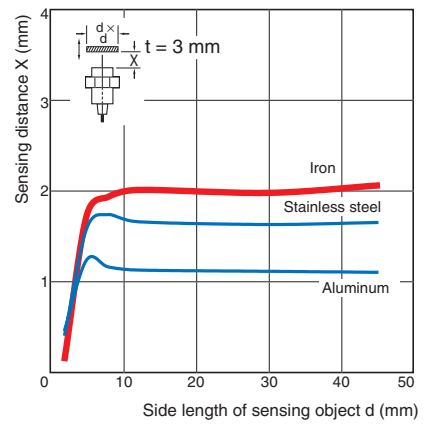
E2C-EM07M(-□)



E2C-EV05(-□)

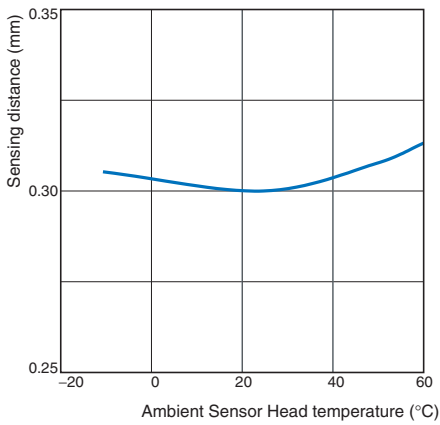


E2C-EM02H

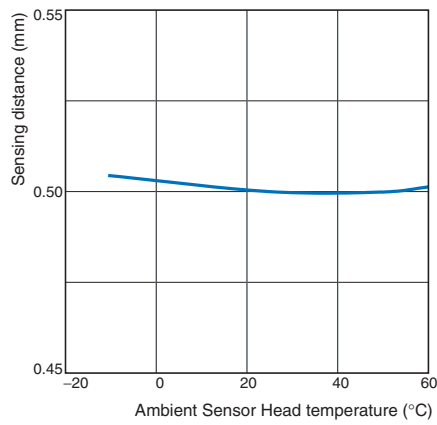


Influence of Sensor Head Temperature

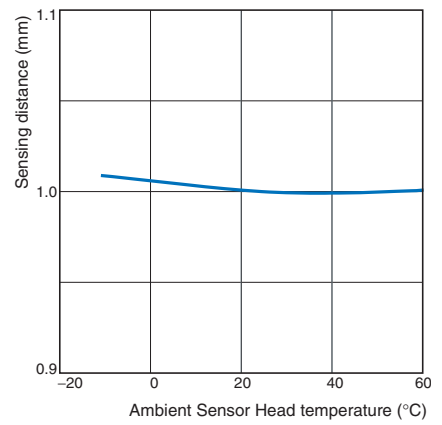
E2C-EDR6-F



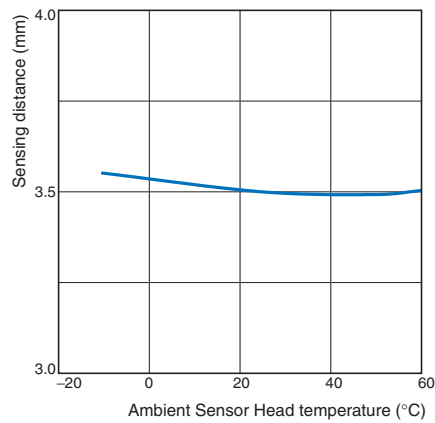
E2C-ED01(-□)



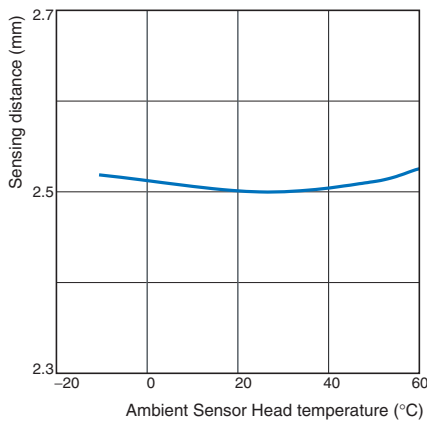
E2C-ED02(-□)/EM02(-□)



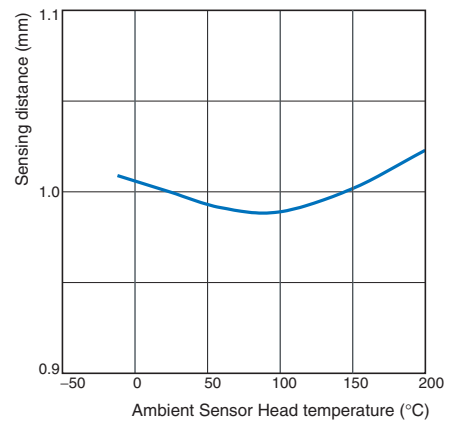
E2C-EM07M(-□)



E2C-EV05(-□)



E2C-EM02H



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I/O Circuit Diagrams

NPN output

Model	Operation mode	Timing Chart	Mode selector	Output circuit
E2C-EDA11 E2C-EDA6	NO (normally open)		NO	
	NC (normally closed)		NC	
E2C-EDA21 E2C-EDA7	NO (normally open)		NO	
	NC (normally closed)		NC	

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 object Present			
Sensing object Not present			
NO			
NO			
NC			
NC			

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PNP output

Model	Operation mode	Timing Chart	Mode selector	Output circuit
E2C-EDA41 E2C-EDA8	NO (normally open)		NO	
	NC (normally closed)		NC	
E2C-EDA51 E2C-EDA9	NO (normally open)		NO	
	NC (normally closed)		NC	

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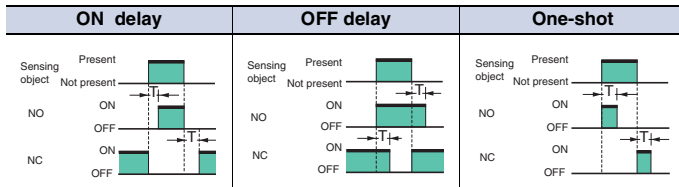
General Information

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)

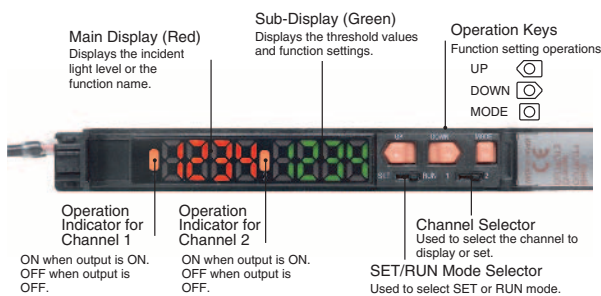


Nomenclature

Amplifier Units

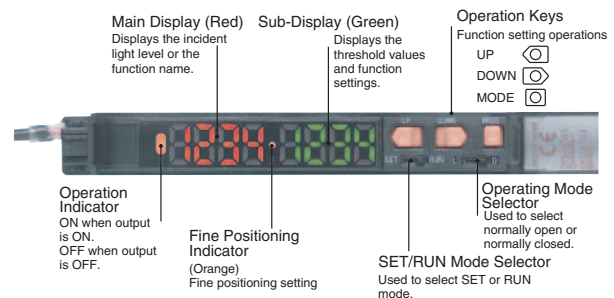
Twin-output Models

(E2C-EDA11/EDA41/EDA6/EDA8)



External-input Models

(E2C-EDA21/EDA51/EDA7/EDA9)



E2EC

E2C-EDA

E2C

/E2C-H

E2CY

E2C-EDA

Safety Precautions

Refer to *Warranty and Limitations of Liability* on page F-2.

⚠ WARNING

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



Precautions for Correct Use

Do not use the Encoder under ambient conditions that exceed the ratings.

Amplifier Units

● Design

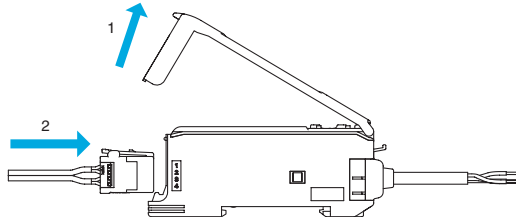
Power ON

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.

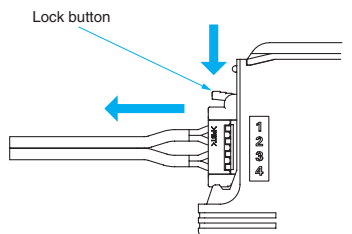
● Mounting

Connecting and Disconnecting Sensor Heads

- (1) Open the protective cover.
- (2) Making sure that the lock button on the Sensor Head connector is up, insert the fibers all the way to the back of the connector insertion opening.



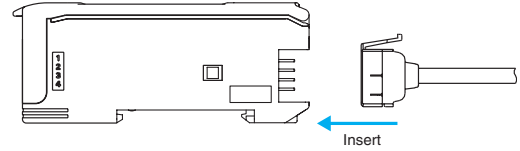
To disconnect the Sensor Head, pull out the fibers while pressing on the lock button.



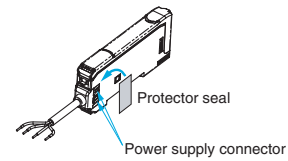
Connecting and Disconnecting Connectors

Connecting

- (1) Insert the Master or Slave Connector into the Amplifier Unit until it clicks into place.



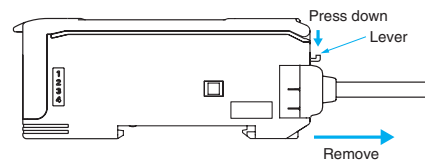
- (2) Apply the enclosed seal to the unconnected surface of the Master/Slave Connector.



Note: Apply the seal to the grooved side.

Disconnecting

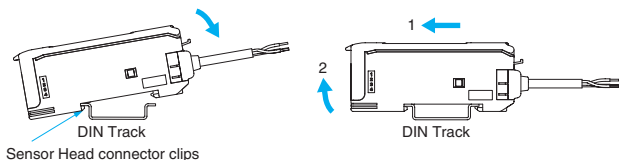
- (1) Slide the Slave Amplifier Unit.
- (2) After the Amplifier Unit has been separated, press down on the lever on the connector and remove the connector. (Do not attempt to remove the connector without separating it from the other Amplifier Unit first.)



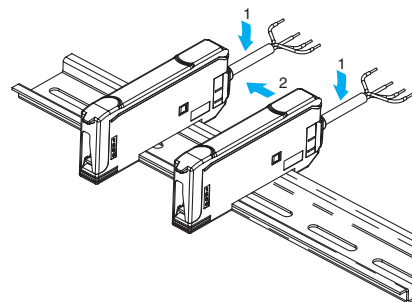
Installing and Removing Amplifier Units

Installing

- (1) Install the Units one by one on the DIN Track.



- (2) Slide one Unit toward the other, match the clips at the front ends, and then bring them together until they click into place.



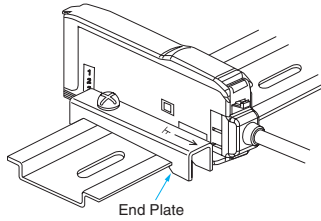
Removing

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

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 *Ratings and Specifications* on page 853.
2. Before connecting or disconnecting the Units, always turn OFF the power.

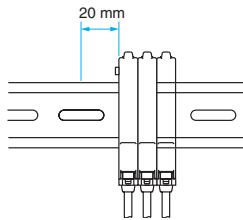
Mounting End Plates (PFP-M)

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 Errors

If the data is not written to the EEPROM correctly due to a power interruption or static-electric noise, initialize the settings using the keys on the Amplifier Unit. "ERR/EEP" will flash on the display if an EEPROM write error occurs.

Optical Communications

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

Miscellaneous

Protective Cover

Be sure to attach the Protective Cover before using the Sensor.

Mobile Console

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

Sensor Head and Amplifier Unit Combinations

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

Warm-up

The digital display may 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.

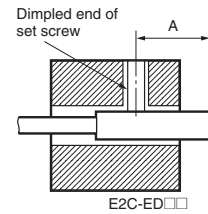
Sensor Heads

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 Unthreaded 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.

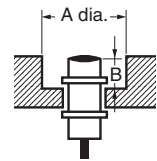
- Do not use torque exceeding 0.5 N·m to tighten screws when mounting Flat Models (E2C-EV□□).
- Use a bending radius of 8 mm or greater for the Sensor Head cable.
- Use only the special Extension Cable to extend the cable between the Sensor Head and the Amplifier Unit. Consult your OMRON representative for details.

Influence of Surrounding Metal

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

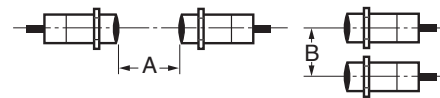
Influence of Surrounding Metal (Unit: mm)

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

- When installing Sensors face-to-face or side-by-side, ensure that the minimum distances given in the following table are maintained.
- 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

(Unit: mm)

Model	Face-to-face (arrangement A)	Side-by-side (arrangement B)	Face-to-face using the Mutual Interference Prevention Function (arrangement A')	Side-by-side using the Mutual Interference Prevention Function (arrangement 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□□	35	30	21	10
E2C-EM07M□□	140	120	35	18
E2C-EV05□□	65	30	21	14
E2C-EM02H□□	45	30	21	12

Proximity Sensors

Sensing Guide

Cylindrical Models

Rectangular Models

Separate Amp/Pre-wired Connector Models

Capacitive Models

Others

Peripheral Devices

General Information

E2EC

E2C-EDA

E2C

/E2C-H

E2CY

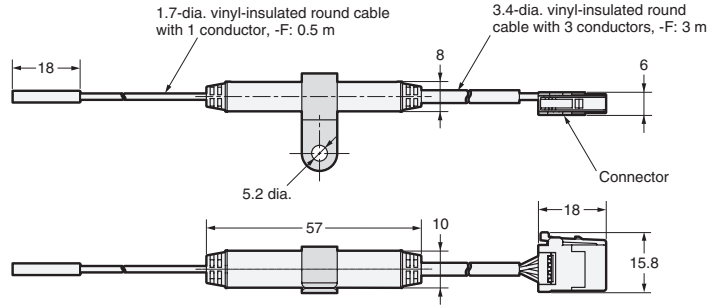
E2C-EDA

Dimensions

(Unit: mm)

Sensor

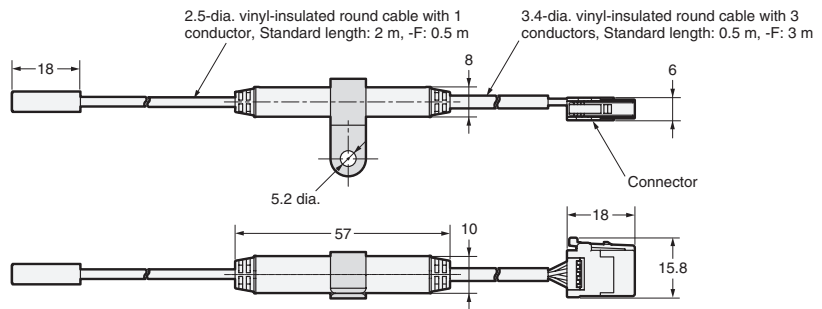
E2C-EDR6-F



CAD data

E2C-ED01(-F)

Proximity Sensors



CAD data

E2C-ED02(-F)

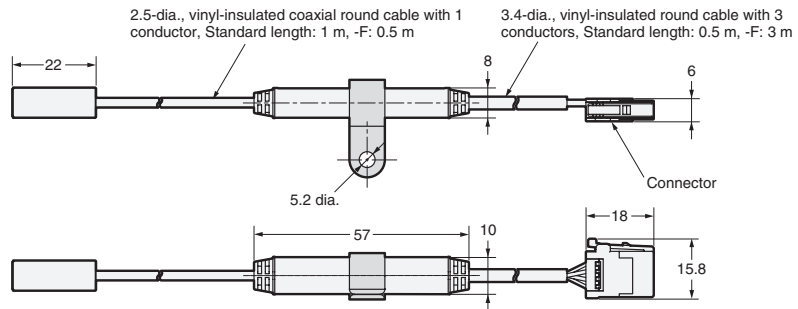
Separate Amp/Pre-wired Connector Models

Capacitive Models

Others

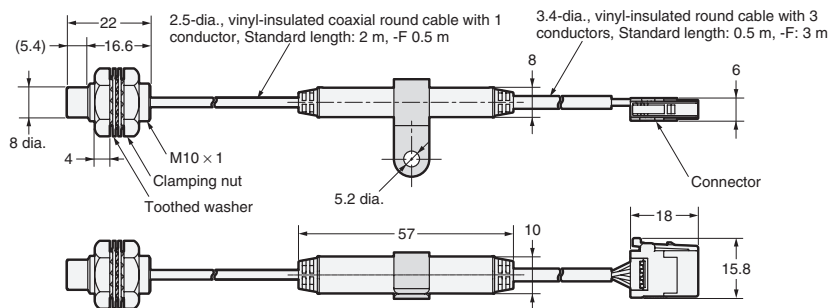
Peripheral Devices

General Information



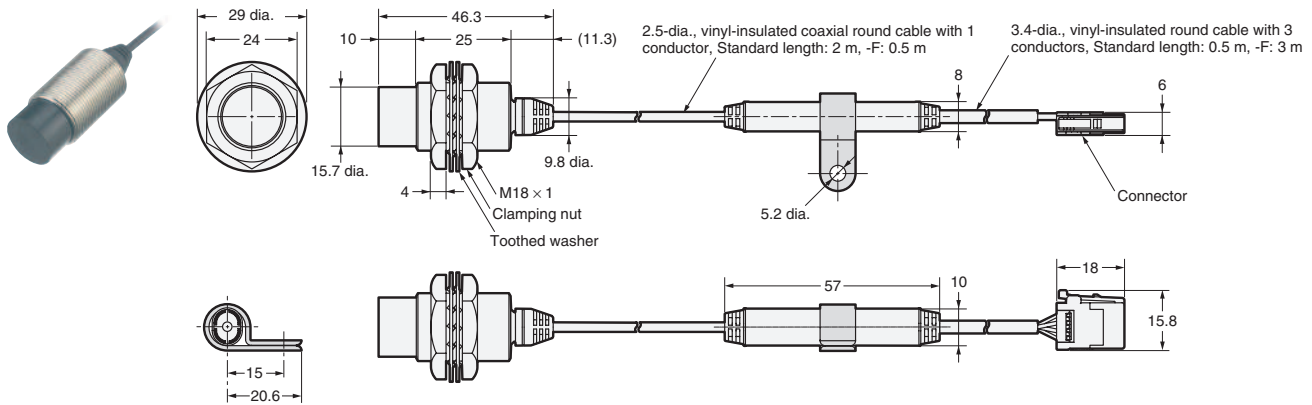
CAD data

E2C-EM02(-F)



CAD data

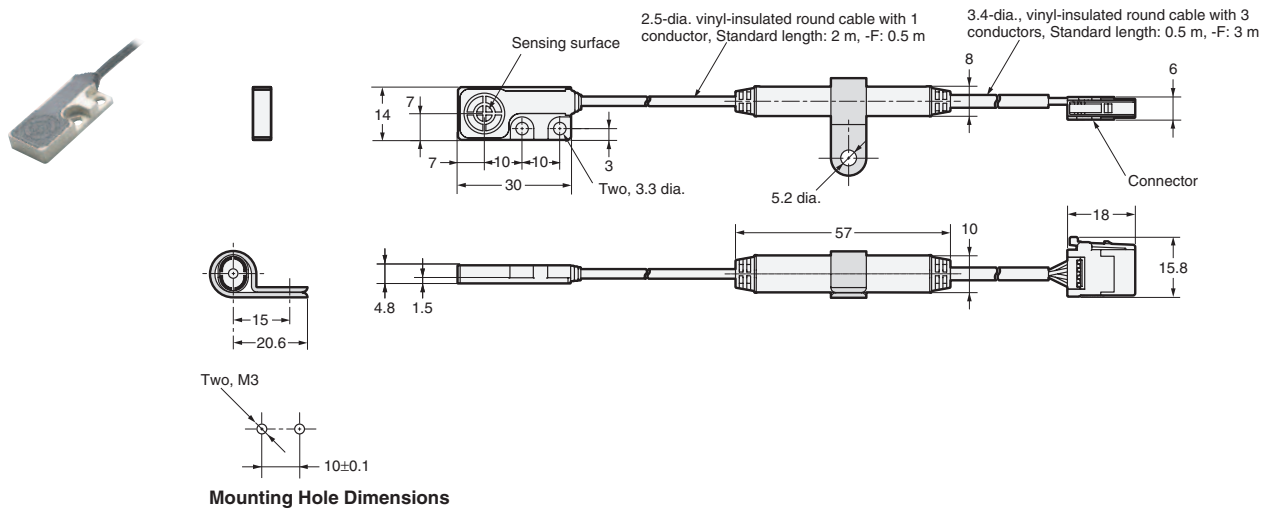
E2C-EM07M(-F)



CAD data

Proximity Sensors

E2C-EV05(-F)



CAD data

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Cylindrical Models

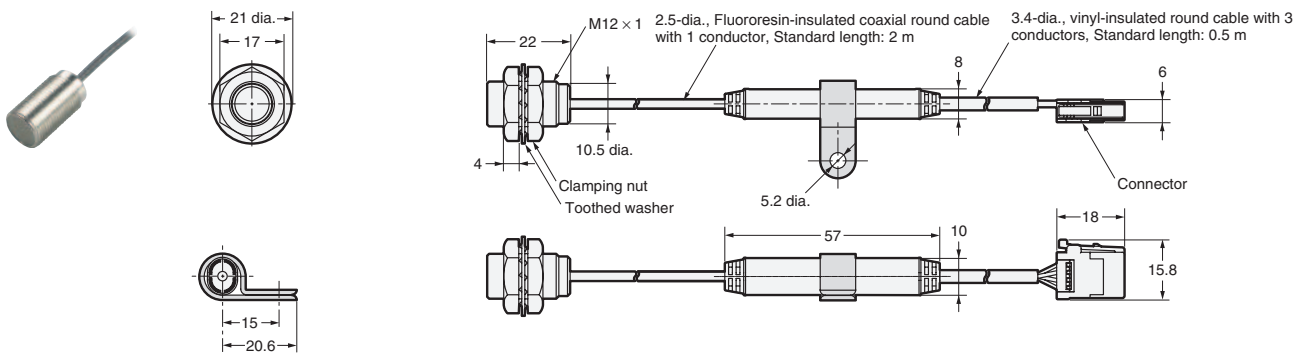
Rectangular Models

Separate Amp/ Pre-wired Connector Models

Capacitive Models

Others

E2C-EM02H



CAD data

Peripheral Devices

General Information

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E2C-EDA

E2C

/E2C-H

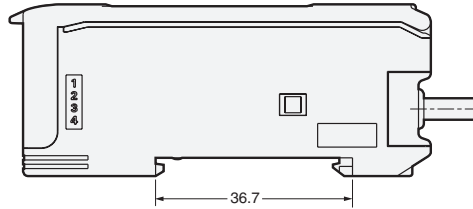
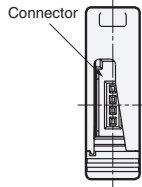
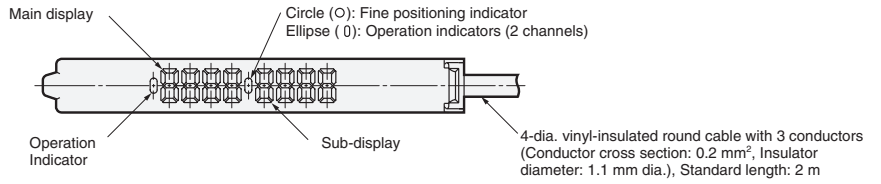
E2CY

E2C-EDA

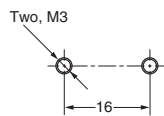
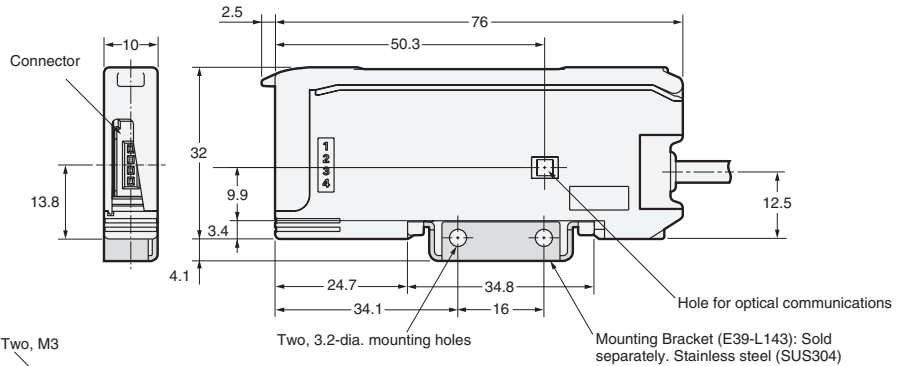
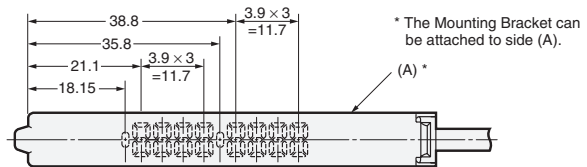
Amplifier Unit

Pre-wired Models

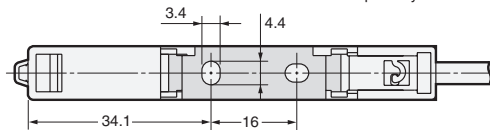
E2C-EDA11
E2C-EDA21
E2C-EDA41
E2C-EDA51



With Mounting Bracket Attached



Mounting Hole Dimensions



CAD data

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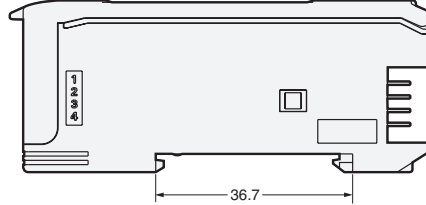
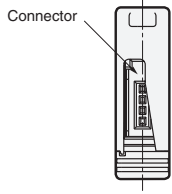
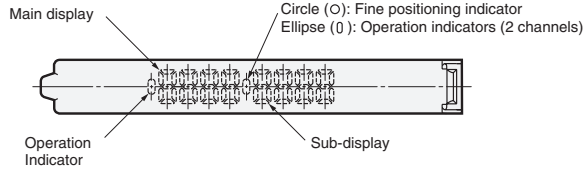
E2C-EDA

E2C
/E2C-H

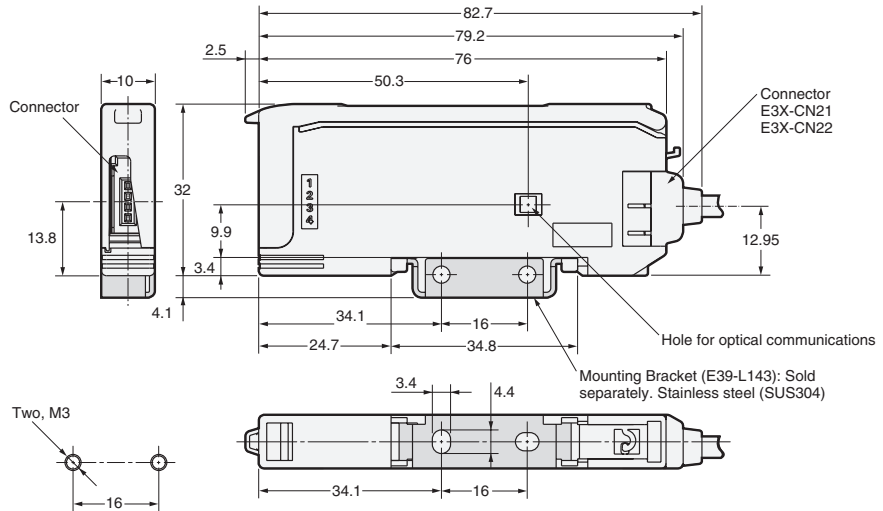
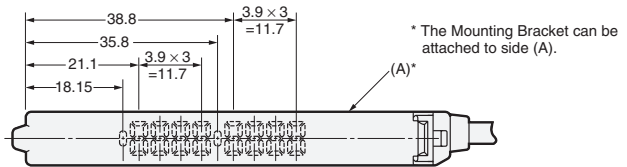
E2CY

Connector Models

- E2C-EDA6
- E2C-EDA7
- E2C-EDA8
- E2C-EDA9



With Mounting Bracket Attached



Mounting Hole Dimensions

CAD data

Amplifier Unit Connectors

Refer to page 81 for details.

Mobile Console

Refer to page 81 for details.

Accessories (Order Separately)

Mounting Bracket

Refer to page 292 for details.

End Plate

Refer to page 1232 for details.

Cat. No. D814-E1-01

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

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