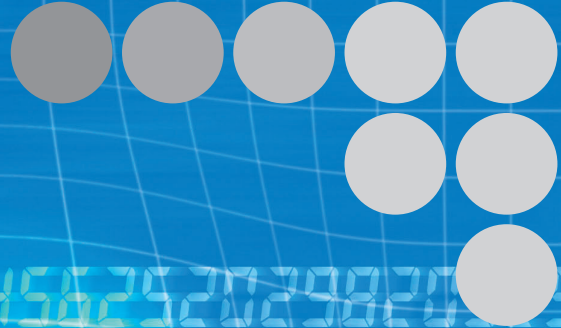


OMRON

High-resolution Digital Proximity Sensor **with Separate Amplifier**
E2C-EDA Series



A Digital Proximity Sensor At Last!



realizing

Finally a Digital Proximity Sensor Capable of High-resolution Sensing with Unprecedented Ease

Sensors

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

An Array of Heads

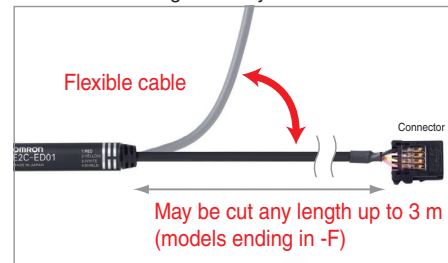
The lineup includes some Sensor Heads as thin as 3-mm in diameter and others that are thin and flat. Narrow installation spaces are not a problem for these models. Still other Sensor Heads are heat resistant or rated IP67 for superior environmental resistance. These models are capable of high-resolution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



Flexible Cables Provided as a Standard Feature

Industry First

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.

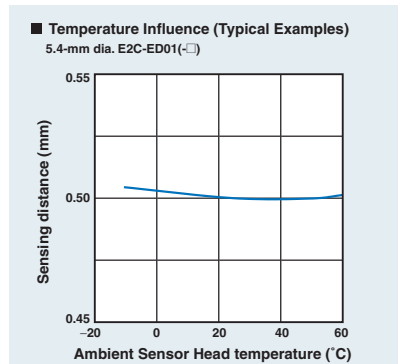


■ High-resolution Sensing Unaffected by Environmental Swings

Industry Leader

Excellent temperature characteristics at 0.08%/°C (5.4-mm dia. Sensor Head)

In addition to repeat accuracy of 1- μ m 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.

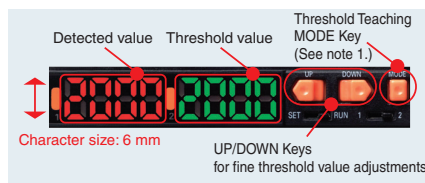


Amplifiers

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: Press the MODE Key with the E2C-EDA running to switch to individual teaching modes, Fine Positioning, or Zero Reset.

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 objects.



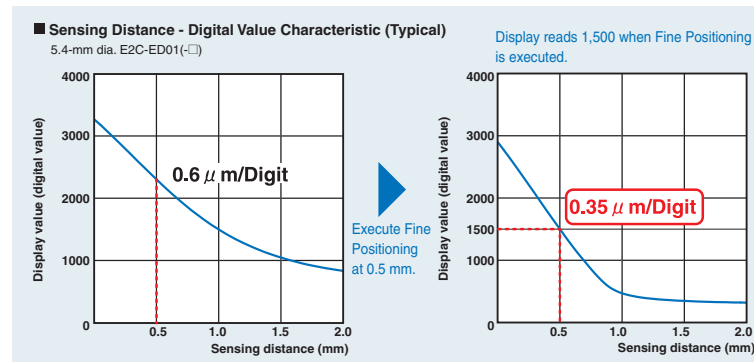
Connector for Connecting Sensor Heads to Amplifiers

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

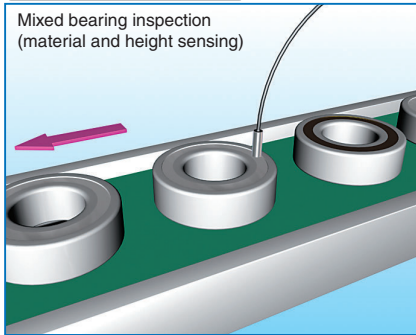
Fine Positioning Maximizes Digital Changes

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.



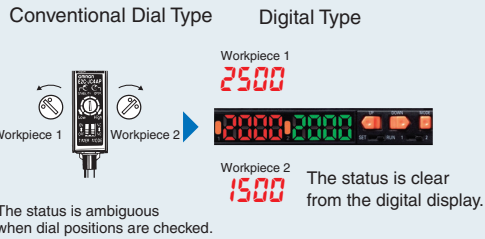
Applications

Screening

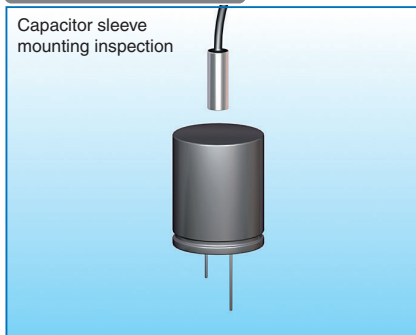


Digital Display

The E2C-EDA can visually recognize height and material differences simply and reliably even with the most demanding settings.

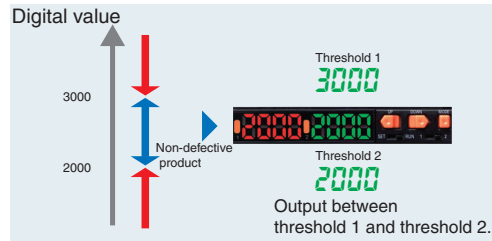


Height inspection

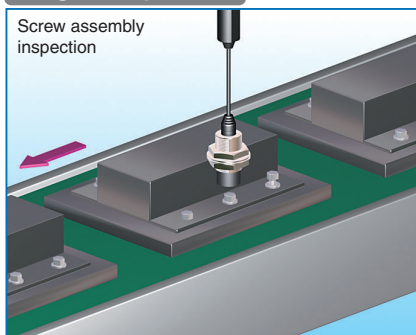


Area Output (Twin-output Type)

An OK/NG result is easily obtained because the E2C-EDA outputs a signal between two threshold values.

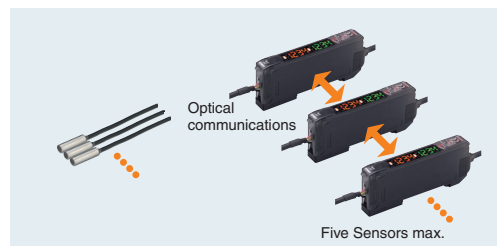


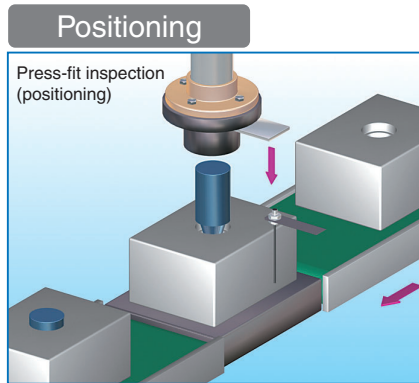
Height inspection



Mutual Interference Prevention

The E2C-EDA has a mutual interference prevention function that uses intermittent sensing via optical communications to enable up to 5 Sensors to be combined very closely together. This feature enables multiple measurements to be made in a machine or process.

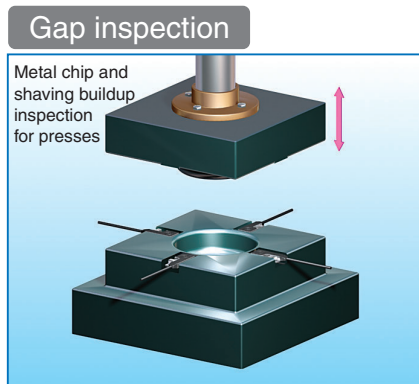




Teaching

Position teaching yields consistent settings that cannot be matched by operator settings.

Conventional dial type	Digital type
Operator setting inconsistencies	Settings are simple enough for anyone with teaching (reduces operator setting inconsistencies).



Zero Reset (Fixed Threshold)

When using a fixed sensing gap (threshold), the origin and reference position can be corrected quite simply if needed, such as when changing the process being performed.

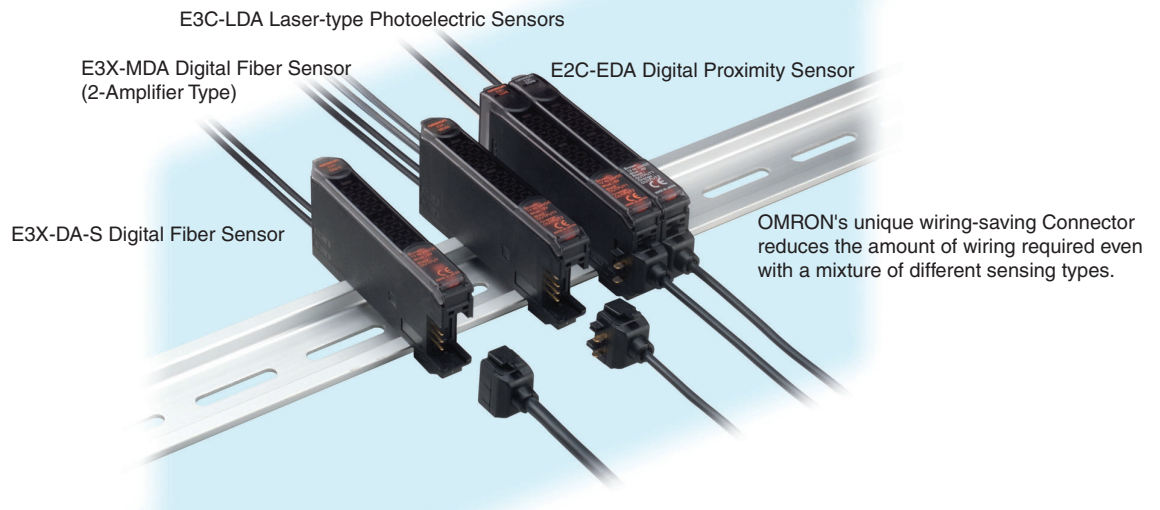
Change in Machine Arrangement

	The origin (reference) is offset.
Zero Reset	
	Correction completed!

Simple and Common Sensor Operation in Devices

Platform Concept Ensures Common Operation and Programming Devices






The basic functions and Programming Devices like the Mobile Console are the same for the E2C-EDA as they are for the E3X-DA-S Digital Fiber Sensor and the E3C-LDA Laser-type Photoelectric Sensor. Just select the right type of E2C-EDA for the application, and the rest is easy.



Ordering Information

■ Sensors

Sensor Heads

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

Note 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 type, Heat-resistant type: standard-length only).


Overall length of the standard-length type: 2.5 m, Length from the Sensor Head to the Preamplifier: 2.0 m (Example: E2C-ED01)

Overall length of the free-cut type: 3.5 m, Length from the Sensor Head to the Preamplifier: 0.5 m for models ending in the suffix -F (example: E2C-ED01F).


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

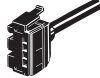
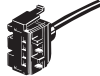
Amplifier Units with Cables

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

Amplifier Units with Connectors

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

Amplifier Unit Connectors (Order Separately)

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

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

Amplifier Units (5 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)

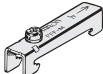
Note: Use the E3X-MC11-SV2 Mobile Console with E2C-EDA-series Amplifier Units. If you use a Mobile Console like the E3X-MC11-S, some functions may not operate.

Accessories (Order Separately)

Mounting Bracket

Appearance	Model	Quantity
	E39-L143	1

End Plate

Appearance	Model	Quantity
	PFP-M	1

Specifications

Sensor Heads

Item	Model	E2C-EDR6-F	E2C-ED01(-□)	E2C-ED02(-□)	E2C-EM02(-□)	E2C-EM07(-□)	E2C-EV05(-□)	E2C-EM02H	
		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		Magnetic metal (The sensing distance will decrease when sensing non-magnetic metal. Refer to <i>Engineering Data</i> on page 10.)							
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 (See note 1.)		1 μm	2 μm		5 μm	2 μm			
Hysteresis distance		Variable							
Temperature characteristic (See note 1.)	Sensor Head	0.3%/°C	0.08%/°C				0.04%/°C	0.2%/°C	
	Preamplifier and Amplifier	0.08%/°C							
Ambient temperature (See note 2.)	Operating	-10°C to 60°C (with no icing or condensation)						-10°C to 200°C (See note 3.)	
	Storage	-10°C to 60°C (with no icing or condensation)	-20°C 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 at 50/60 Hz for 1 min between current carry 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 for 3 times each in X, Y, and Z directions							
Degree of protection		IEC60529 IP67						IEC60529 IP60 (See note 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.)							
Material	Sensor Head	Case	Brass	Stainless steel	Brass		Zinc	Brass	
		Sensing surface	Heat-resistant ABS						PEEK
		Clamping nut	---			Nickel-plated brass	---		Nickel-plated brass
		Toothed washer	---			Zinc-plated iron	---		Zinc-plated iron
	Preamplifier	PES							
Accessories		Preamplifier Mounting Brackets, Instruction Manual							

Note 1. The repeat accuracy and temperature characteristic are for a standard sensing object positioned midway through the rated sensing distance.

- A sudden temperature rise even within the rated temperature range may degrade characteristics.
- For the Sensor Head only without the preamplifier (-10 to 60°C). With no icing or condensation.
- Do not operate in areas exposed to water vapor because the enclosure is not waterproof.

Amplifier Units

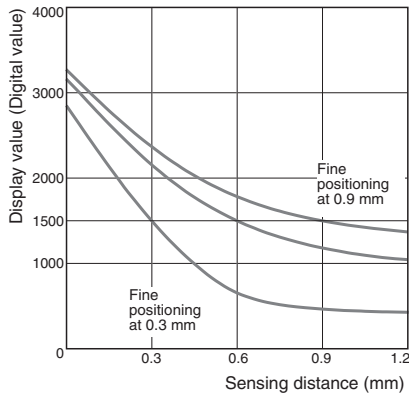
Item	Model	Type	Advanced Models with Twin Outputs		Advanced Models with External Inputs	
		NPN output	E2C-EDA11	E2C-EDA6	E2C-EDA21	E2C-EDA7
		PNP output	E2C-EDA41	E2C-EDA8	E2C-EDA51	E2C-EDA9
Supply voltage		12 to 24 VDC ±10%, ripple (p-p): 10% max.				
Power consumption		1,080 mW max. (current consumption: 45 mA at power supply voltage of 24 VDC)				
Control output		Load power supply voltage: 26.4 VDC max.; NPN/PNP open collector output; load current: 50 mA max. (residual voltage: 1 V max.)				
Response time	Super-high-speed mode	150 μs for operation and reset respectively				
	High-speed mode	300 μs for operation and reset respectively				
	Standard mode	1 ms for operation and reset respectively				
	High-resolution mode	4 ms for operation and reset respectively				
Functions	Differential detection	Switchable between single edge and double edge detection mode Single edge: Can be set to 300 μs, 500 μs, 1 ms, 10 ms, or 100 ms Double edge: Can be set to 500 μs, 1 ms, 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.)				
	Initial reset	Settings can be returned to defaults as required.				
	Mutual interference prevention	Possible for up to 5 Units. (See note.) 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 (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°C to 70°C (with no icing)				
Ambient humidity		Operating/storage: 35% to 85% (with no condensation)				
Insulation resistance		20 MΩ min. (at 500 VDC)				
Dielectric strength		1,000 VAC at 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 for 3 times each in X, Y, and Z directions				
Degree of protection		IEC60529 IP50				
Connection method		Prewired	Connector	Prewired	Connector	
Weight (packed state)		Approx. 100 g	Approx. 55 g	Approx. 100 g	Approx. 55 g	
Material	Case	PBT (polybutylene terephthalate)				
	Cover	Polycarbonate				

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

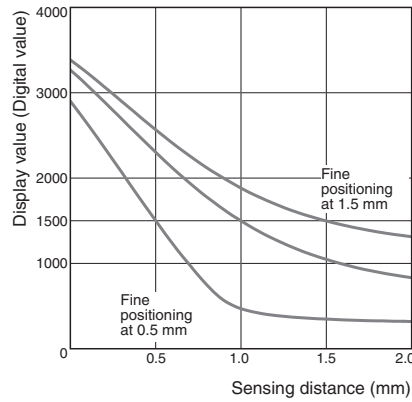
Engineering Data

Sensing Distance vs. Display Values

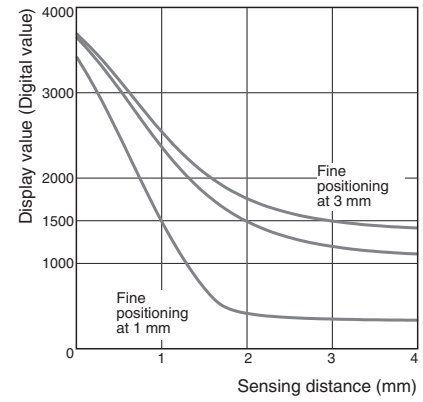
E2C-EDR6-F



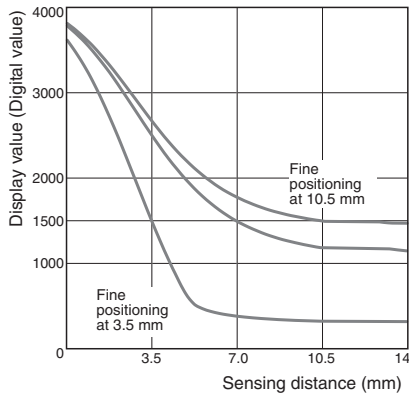
E2C-ED01(-□)



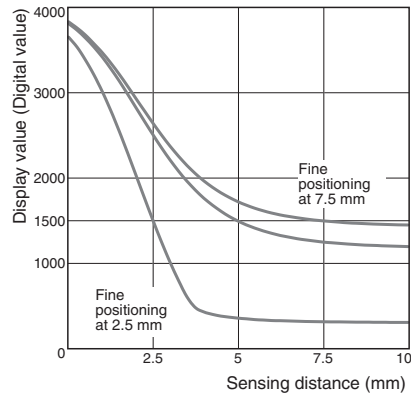
E2C-ED02(-□)/EM02(-□)



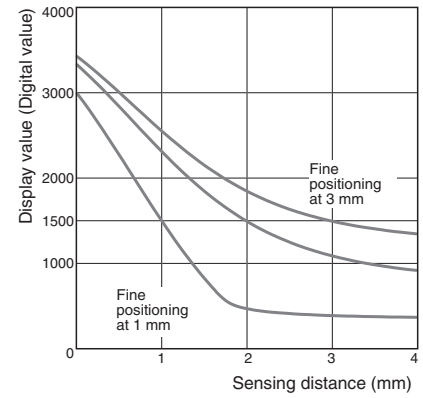
E2C-EM07(-□)



E2C-EV05(-□)

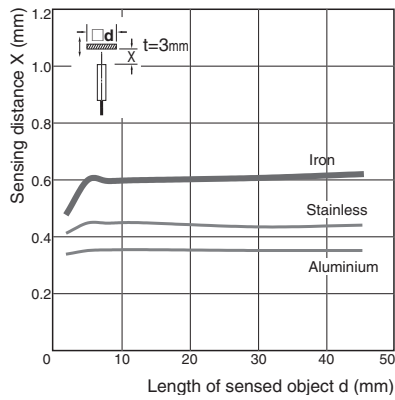


E2C-EM02H

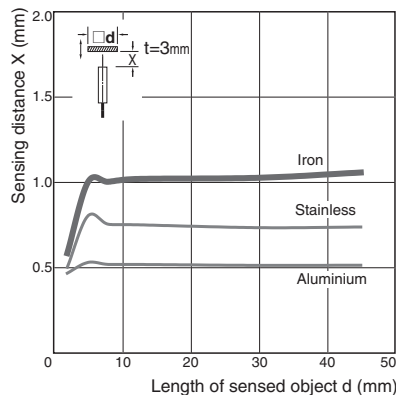


Influence of Sensing Object Size and Material

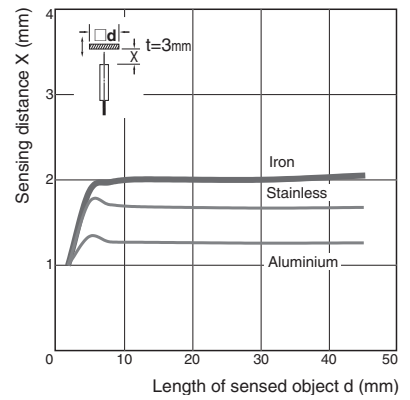
E2C-EDR6-F



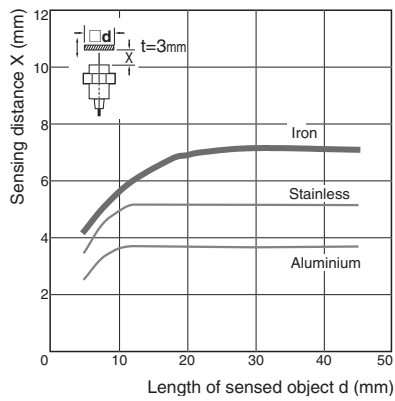
E2C-ED01(-□)



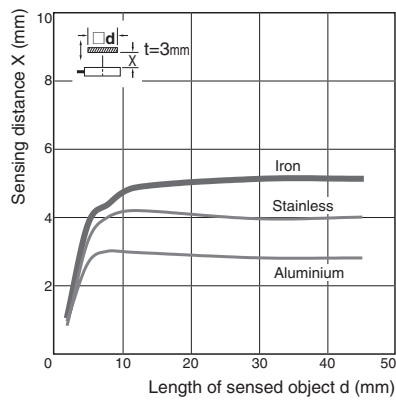
E2C-ED02(-□)/EM02(-□)



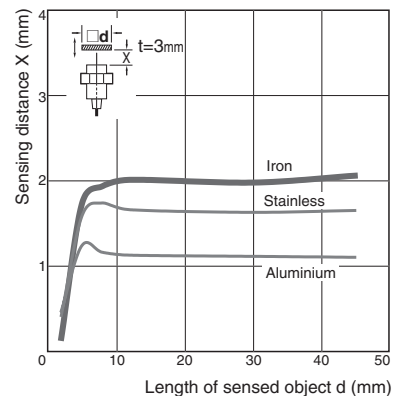
E2C-EM07(-□)



E2C-EV05(-□)

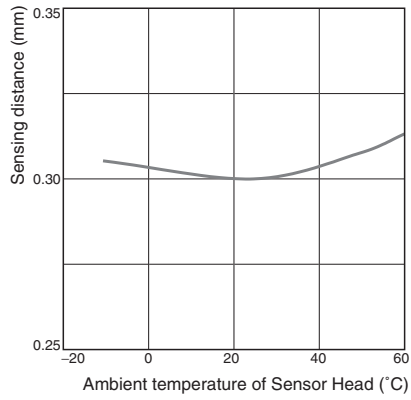


E2C-EM02H

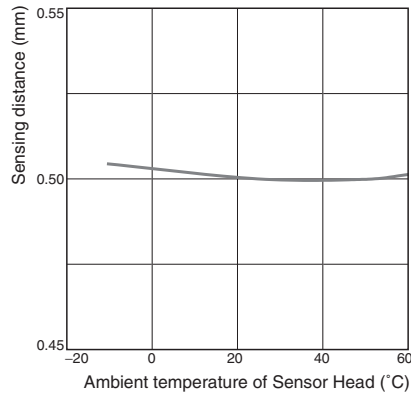


Influence of Sensor Head Temperature

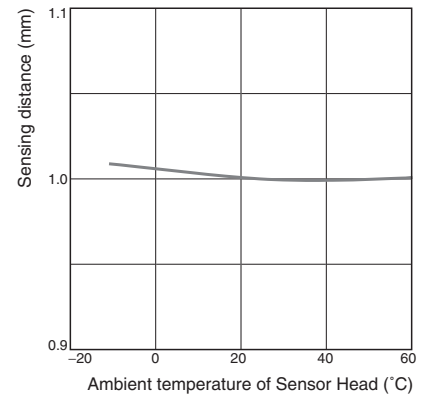
E2C-EDR6-F



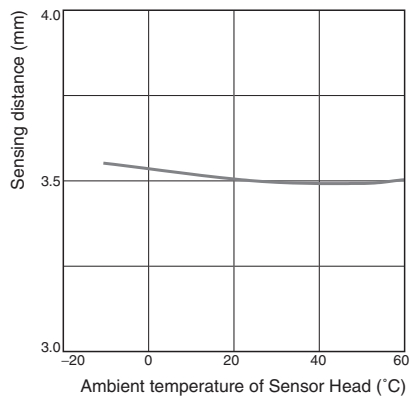
E2C-ED01(-□)



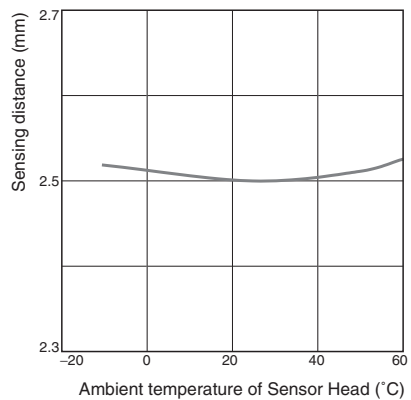
E2C-ED02(-□)/EM02(-□)



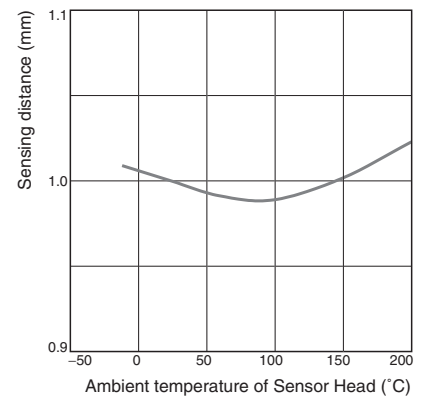
E2C-EM07(-□)



E2C-EV05(-□)



E2C-EM02H



Operation

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

PNP Output

Model	Operation mode	Timing chart	Mode selector	Output circuit
E2C-EDA41 E2C-EDA8	NO (Normally open)	Sensing object: Yes (ON), No (OFF) Operation indicator (orange): Lit (ON), Not lit (OFF) Output transistor: ON (ON), OFF (OFF) Load (relay, etc.): Operate (ON), Reset (OFF) (Between blue and black lines)	NO	
	NC (Normally closed)	Sensing object: Yes (OFF), No (ON) Operation indicator (orange): Lit (OFF), Not lit (ON) Output transistor: ON (OFF), OFF (ON) Load (relay, etc.): Operate (OFF), Reset (ON) (Between blue and black lines)	NC	
E2C-EDA51 E2C-EDA9	NO (Normally open)	Sensing object: Yes (ON), No (OFF) Operation indicator (orange): Lit (ON), Not lit (OFF) Output transistor: ON (ON), OFF (OFF) Load (relay, etc.): Operate (ON), Reset (OFF) (Between blue and black lines)	NO	
	NC (Normally closed)	Sensing object: Yes (OFF), No (ON) Operation indicator (orange): Lit (OFF), Not lit (ON) Output transistor: ON (OFF), OFF (ON) Load (relay, etc.): Operate (OFF), Reset (ON) (Between blue and black lines)	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)

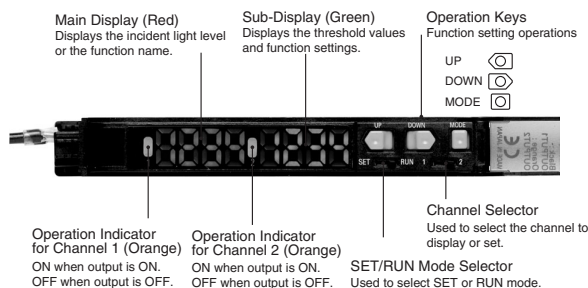
ON delay	OFF delay	One shot

Nomenclature

Amplifier Units

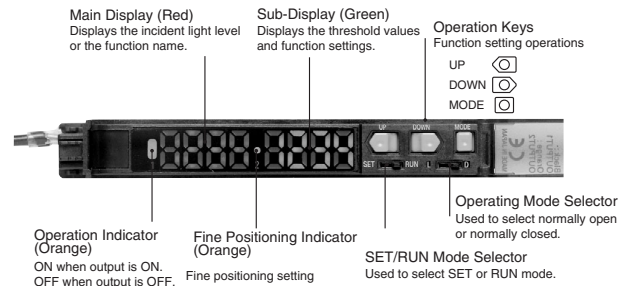
Twin-output Models

(E2C-EDA11/EDA41/EDA6/EDA8)



External-input Models

(E2C-EDA21/EDA51/EDA7/EDA9)



Precautions

WARNING

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

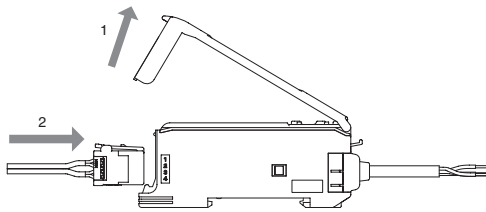
Power ON

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.

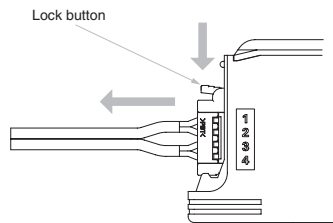
● Connecting Sensor Heads

Connecting and Disconnecting Sensor Heads

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



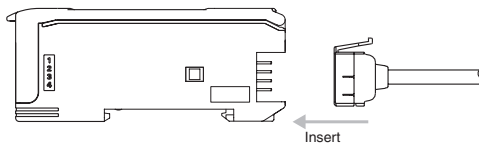
To disconnect the Sensor Head, pull out the fibers while pressing on the lock button.



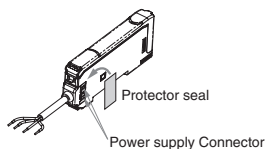
Connecting and Disconnecting Connectors

Connecting Connectors

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



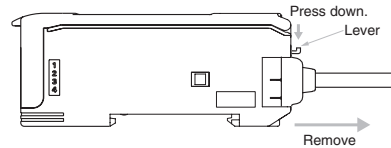
2. Apply the supplied seal to the non-connection surface of the Master/Slave Connector.



Note: Apply the seal to the grooved side.

Disconnecting Connectors

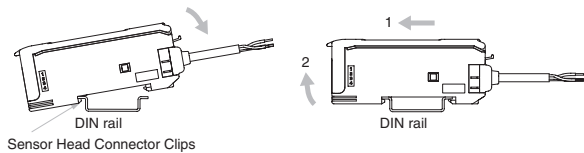
1. Slide the Slave Amplifier Unit.
2. After the Amplifier Unit has been separated, press down on the lever on the Connector and remove it. (Do not attempt to remove Connectors without separating them from other Amplifier Units first.)



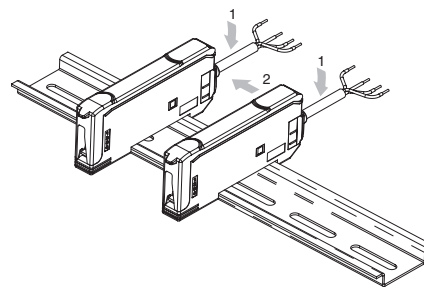
Installing and Removing Amplifier Units

Installing Amplifier Units

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



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



Removing Amplifier Units

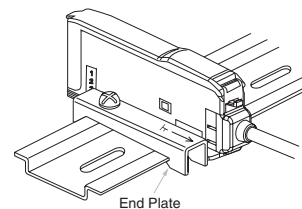
Slide one Unit away from the other and remove them one by one. (Do not remove the connected Units together from the DIN rail.)

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 Specifications.

2. Before connecting or disconnecting the Units, always switch power OFF.

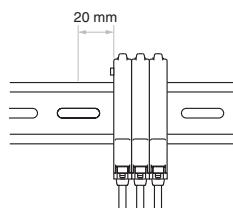
End Plate Mounting (PFP-M)

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-by-side. 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.

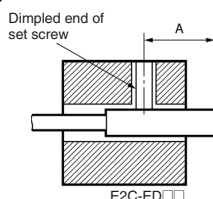
Sensor Heads

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.

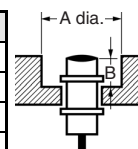
- Do not use torque exceeding 0.5 N·m to tighten screws when mounting flat models (E2C-EV□□).
- Use a bending radius of at least 8 mm for the Sensor Head cable.
- Use only the special extension cable to extend the cable between the Sensor Head and the Amplifier Unit. Consult your OMRON representative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

Effects of Surrounding Metal

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

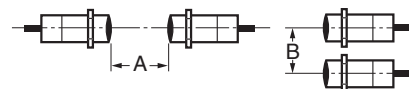
Effects of Surrounding Metal (Units: mm)

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

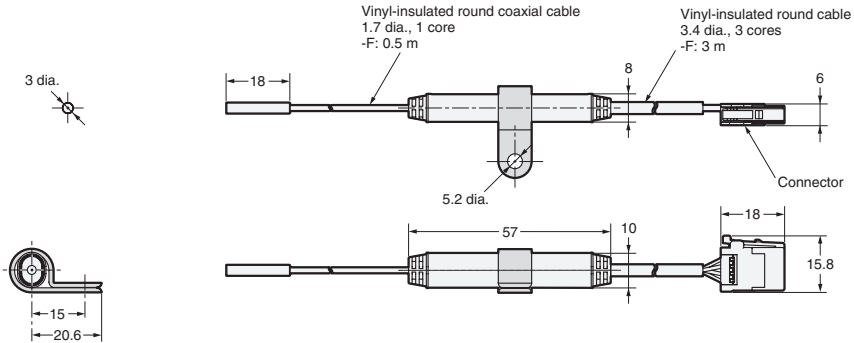
(Units: mm)

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

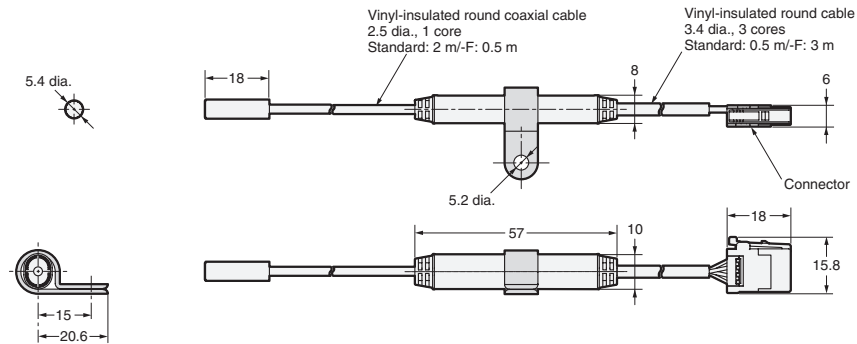
Dimensions

Sensors

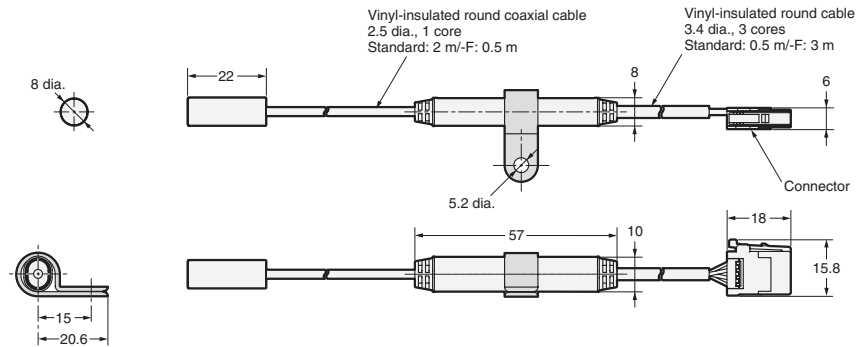
E2C-EDR6-F



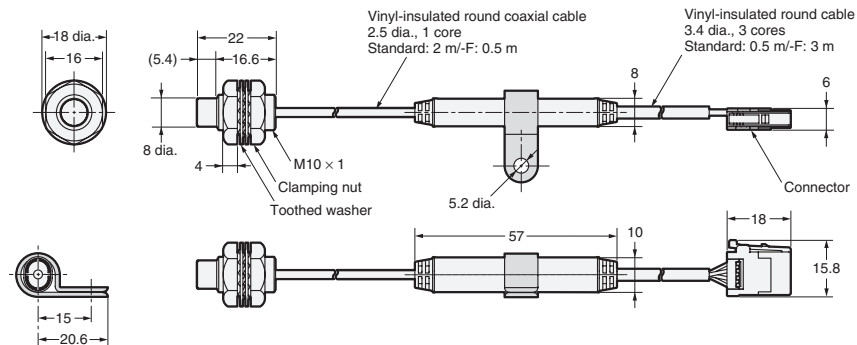
E2C-ED01(-F)



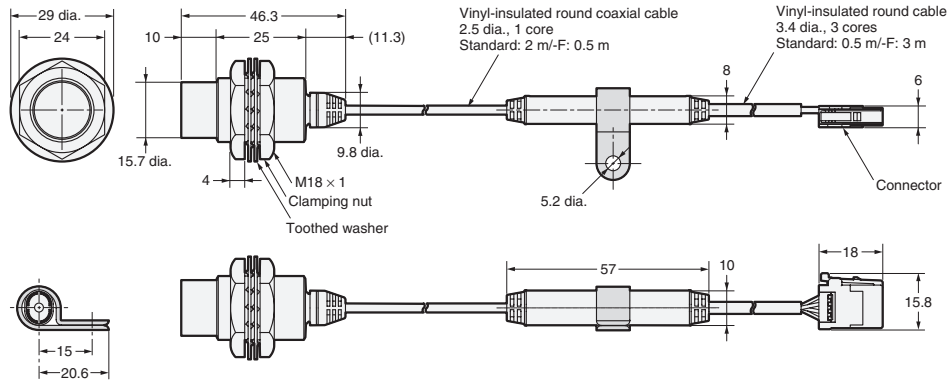
E2C-ED02(-F)



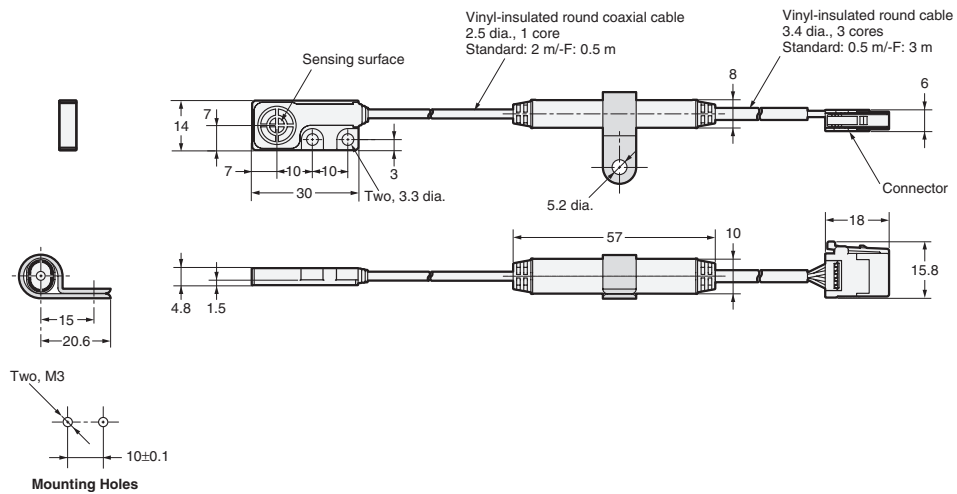
E2C-EM02(-F)



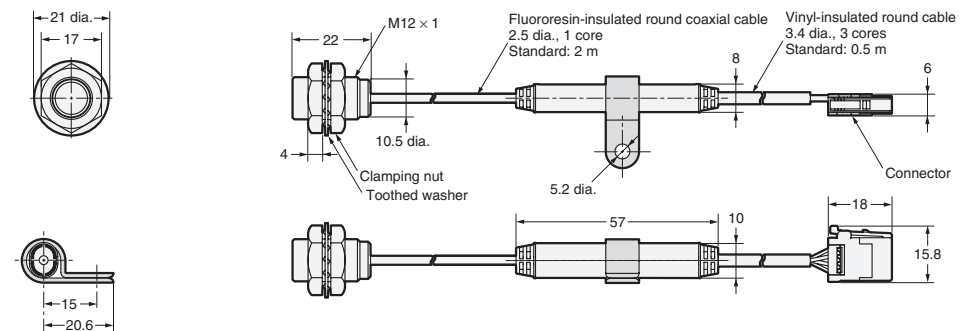
E2C-EM07M(-F)



E2C-EV05(-F)



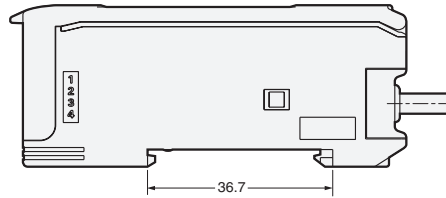
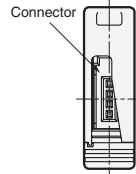
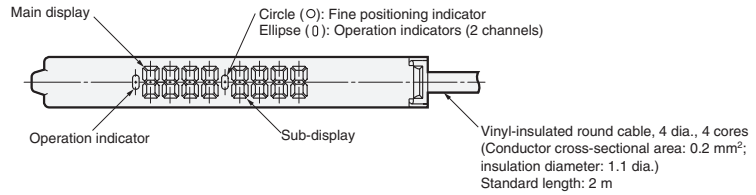
E2C-EM02H



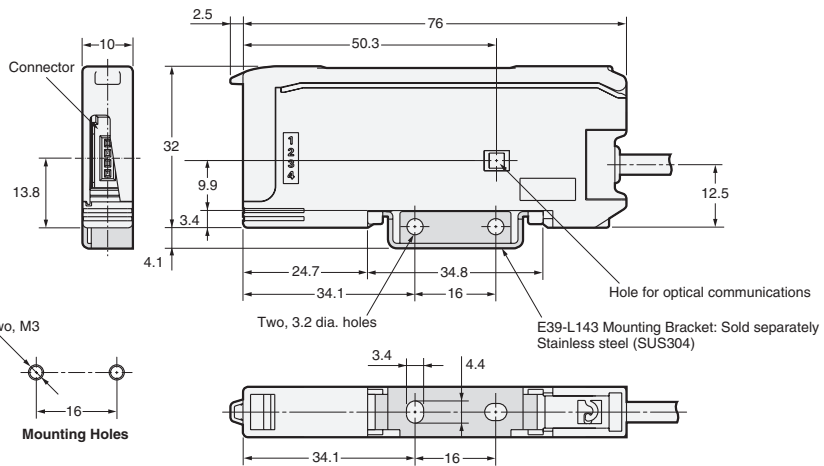
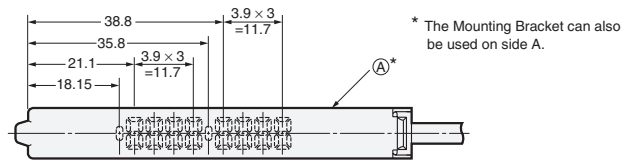
Amplifier Units

Amplifier Units with Cables

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

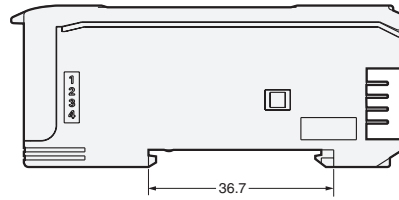
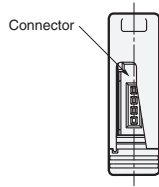
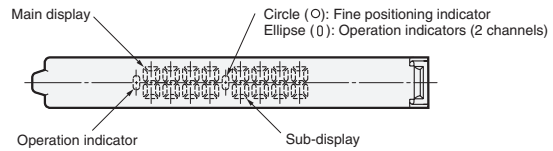


With Mounting Bracket Attached

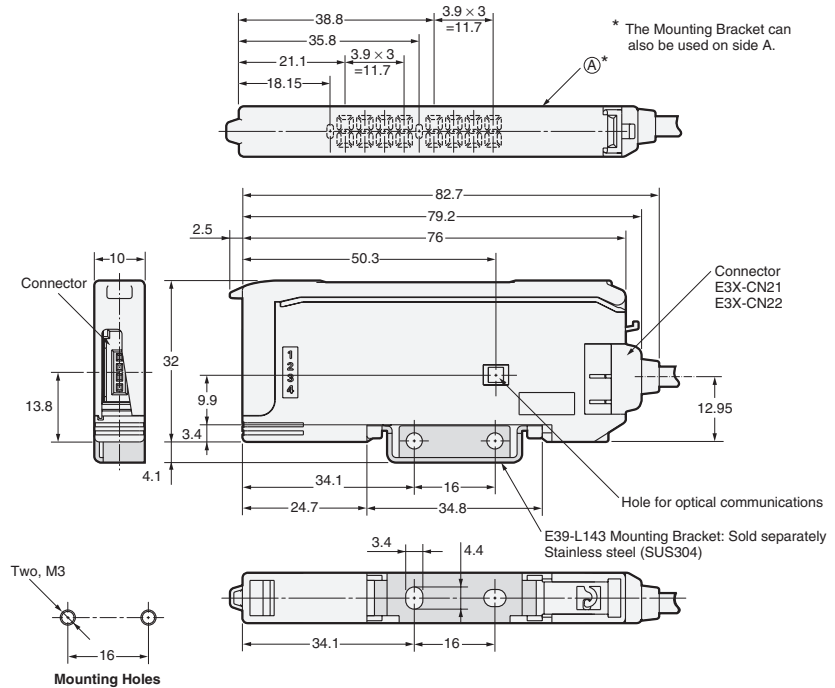


Amplifier Units with Connectors

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



With Mounting Bracket Attached



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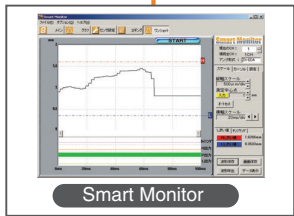
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This is the platform for OMRON's sensing technology.**

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E3X-DA-S Series/
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OMRON Corporation
Industrial Automation Company

Sensing Devices Division H.Q.
Application Sensors Division
Shiokoji Horikawa, Shimogyo-ku,
Kyoto, 600-8530 Japan
Tel: (81)75-344-7068
Fax: (81)75-344-7107

Regional Headquarters

OMRON EUROPE B.V.
Sensor Business Unit,
Carl-Benz-Str. 4, D-71154 Nufringen, Germany
Tel: (49)7032-811-0/Fax: (49)7032-811-199

OMRON ELECTRONICS LLC
1 East Commerce Drive, Schaumburg, IL 60173 U.S.A.
Tel: (1)847-843-7900/Fax: (1)847-843-8568

OMRON ASIA PACIFIC PTE. LTD.
83 Clemenceau Avenue, #11-01, UE Square,
239920 Singapore
Tel: (65)6835-3011/Fax: (65)6835-2711

OMRON (CHINA) CO., LTD.
Room 2211, Bank of China Tower,
200 Yin Cheng Road (M), Shanghai, 200120 China
Tel: (86)21-5037-2222/Fax: (86)21-5037-2200

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