

## Small-diameter Proximity Sensor

## Ultra small size and simple to install!

- With the addition of M4, 5.4-dia., 6.5-dia. size, unshielded, pre-wired connector model, and connector model, a total of 108 model variations are available.
- High-speed response frequency stably detects moving objects: 5 kHz max.
- Four indicator LEDs for easier indicator positioning.
- Special mounting brackets reduce time and efforts for installation.
- Stainless-steel Spiral Tube protects against wire breakage is available (M4, M5 only).
- Models also available with standard cables that are 5 m long or with robot (bending-resistant) cables.



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

 $\triangle$ 

Refer to Safety Precautions on page 10.

#### **Features**

#### Lineup of global small-diameter types (3 dia., 4 dia., 5.4 dia., 6.5 dia., M4, M5)

• A lineup of unshielded models for long distance sensing is also available. Stable long distance sensing performance enables worry-free use even when the work flow is unsteady.



## Bright operation indicators make it easy to view operation status

• Four indicator LEDs in a 360 degree layout can be easily seen.



#### High-speed response enables sharp detection timing

• 5 kHz response frequency max.

#### Protection circuits prevent failures due to wiring mistakes.

 Load short-circuit protection and output reverse polarity protection circuits are incorporated.

#### Low current consumption: 10 mA max.

 Current consumption is 2/3 that of conventional small diameter proximity sensors.

## Protective Stainless-steel Spiral Tubes available

 Lineup of protective tubes for M4 and M5 sizes. Reduces wire breakage due to catching and shock.



## E2E

## E2E (Small Diameter) Model Number Legend

E2E-	<b>1</b>	(2)	<b>(3</b> )	<b>(4)</b>	_	<b>(5)</b>	_	<b>(6)</b>	(7)	<b> </b> _	(8)	9
<b>Ľ</b> ∠Ľ-	$  \mathbf{U}  $		$ \mathbf{o} $	4	-	(O)	-	$ \mathbf{o} $	U	-	<b>o</b>	(9)

No.	Classification	Code	Meaning
	Case meterial and chang	С	Cylindrical
1	Case material and shape	S	SUS, threaded
		03	Outer diameter 3 mm
<b>(a)</b>	Size	04	Outer diameter 4 mm
2	Size	05	Threaded: Outer diameter 5 mm, Cylindrical: Outer diameter 5.4 mm
		06	Outer diameter 6.5 mm
	Chialdina	S	Shielded Models
3	Shielding	N	Unshielded Models
4	Sensing distance	Number	R8: 0.8 mm, 01: 1 mm, 12: 1.2 mm, 02: 2 mm, 03: 3 mm, 04: 4 mm
		WC	PVC Pre-wired Model
<b>(5</b> )	Connecting method	MC	M8 Connector, 3-pin
		CJ	M8 Pre-wired Connector, 3-pin
<b>(6)</b>	Output appoifications	В	DC 3-wire PNP open-collector output
•	Output specifications	С	DC 3-wire NPN open-collector output
	Operation made	1	Normally open (NO)
7	Operation mode	2	Normally closed (NC)
	Oakla anasifiaatiana	Blank	Standard PVC cable
8	Cable specifications	R	Robot (bending-resistant) PVC cable
		Blank	Connector Models
9	Cable length	Number M	Cable length (Unit: m) (Applicable to Pre-wired Models 2M/5M and Pre-wired Connector Models 0.3M)

Note: The purpose of this model number legend is to provide understanding of the meaning of specifications from the model number. Models are not available for all combinations of code numbers.

## **Ordering Information**

#### **Sensors**

Shielded Models [Refer to Dimensions on page 12.]



Appear-	Sensing	Connecting	Cable	Operation	Wire color /	Мс	odel		
ance	distance	method	specifications	mode	pin arrangement	NPN output	PNP output		
		Pre-wired Models	PVC	NO	Brown: +V	E2E-C03SR8-WC-C1 2M *1	E2E-C03SR8-WC-B1 2M *1		
0 -1:-	0.8 mm	(2 m)	(oil-resistant)	NC	Black: Output Blue: 0 V	E2E-C03SR8-WC-C2 2M *1	E2E-C03SR8-WC-B2 2M *1		
3 dia.		M8 Pre-wired Connector	PVC	NO	1: +V, 3: 0 V,	E2E-C03SR8-CJ-C1 0.3M	E2E-C03SR8-CJ-B1 0.3M		
		Models (0.3 m)	(oil-resistant)	NC	4: Control output	E2E-C03SR8-CJ-C2 0.3M	E2E-C03SR8-CJ-B2 0.3M		
		Pre-wired Models	PVC	NO	Brown: +V Black: Output	E2E-C04S12-WC-C1 2M *1 *2 *3	E2E-C04S12-WC-B1 2M *1 *2 *3		
		(2 m)	(oil-resistant)	NC	Blue: 0 V	E2E-C04S12-WC-C2 2M *1 *2 *3	E2E-C04S12-WC-B2 2M *1 *2 *3		
4 -1!-		M8 Pre-wired	PVC	NO		E2E-C04S12-CJ-C1 0.3M	E2E-C04S12-CJ-B1 0.3M		
4 dia.	1.2 mm	Connector Models (0.3 m)	(oil-resistant)	NC	1: +V,	E2E-C04S12-CJ-C2 0.3M	E2E-C04S12-CJ-B2 0.3M		
		M8 Connector		NO	3: 0 V, 4: Control output	E2E-C04S12-MC-C1	E2E-C04S12-MC-B1		
		Models		NC		E2E-C04S12-MC-C2	E2E-C04S12-MC-B2		
E 4 -11-		Pre-wired Models	Pre-wired Models	PVC	NO	Brown: +V	E2E-C05S01-WC-C1 2M *1 *2 *3	E2E-C05S01-WC-B1 2M *1 *2 *3	
5.4 dia.	1 mm	(2 m)	(oil-resistant)	NC	Black: Output Blue: 0 V	E2E-C05S01-WC-C2 2M *1 *2	E2E-C05S01-WC-B2 2M *1 *2		
		Pre-wired Models	Pre-wired Models	Pre-wired Models	PVC	NO	Brown: +V	E2E-C06S02-WC-C1 2M *1 *2 *3	E2E-C06S02-WC-B1 2M *1 *2 *3
		(2 m)	(oil-resistant)	NC	Black: Output Blue: 0 V	E2E-C06S02-WC-C2 2M *1 *2 *3	E2E-C06S02-WC-B2 2M *1 *2 *3		
0.5.41		M8 Pre-wired		PVC	NO		E2E-C06S02-CJ-C1 0.3M	E2E-C06S02-CJ-B1 0.3M	
6.5 dia.	2 mm	Connector Models (0.3 m)	(oil-resistant)	NC	1: +V, 3: 0 V, 4: Control output	E2E-C06S02-CJ-C2 0.3M	E2E-C06S02-CJ-B2 0.3M		
		M8 Connector		NO		E2E-C06S02-MC-C1	E2E-C06S02-MC-B1		
		Models		NC		E2E-C06S02-MC-C2	E2E-C06S02-MC-B2		
		Pre-wired Models	PVC	NO	Brown: +V Black: Output	E2E-S04SR8-WC-C1 2M *1	E2E-S04SR8-WC-B1 2M *1		
144		(2 m)	(oil-resistant)	NC	Blue: 0 V	E2E-S04SR8-WC-C2 2M *1	E2E-S04SR8-WC-B2 2M *1		
M4	0.8 mm	M8 Pre-wired	PVC	NO	1: +V, 3: 0 V.	E2E-S04SR8-CJ-C1 0.3M	E2E-S04SR8-CJ-B1 0.3M		
		Connector Models (0.3 m)	(oil-resistant)	NC	4: Control output	E2E-S04SR8-CJ-C2 0.3M	E2E-S04SR8-CJ-B2 0.3M		
		Pre-wired Models	PVC	NO	Brown: +V	E2E-S05S12-WC-C1 2M *1 *2 *3	E2E-S05S12-WC-B1 2M *1 *2 *3		
		(2 m)	(oil-resistant)	NC	Black: Output Blue: 0 V	E2E-S05S12-WC-C2 2M *1 *2 *3	E2E-S05S12-WC-B2 2M *1 *2 *3		
N45		M8 Pre-wired				E2E-S05S12-CJ-C1 0.3M	E2E-S05S12-CJ-B1 0.3M		
M5	1.2 mm	Connector Models (0.3 m)	(oil-resistant)	NC	1: +V, 3: 0 V.	E2E-S05S12-CJ-C2 0.3M	E2E-S05S12-CJ-B2 0.3M		
		M8 Connector		NO	4: Control output	E2E-S05S12-MC-C1	E2E-S05S12-MC-B1		
		Models		NC		E2E-S05S12-MC-C2	E2E-S05S12-MC-B2		

<sup>\*1.</sup> Models with 5-m cable length are also available with "5M" suffix. (Example: E2E-C04S12-WC-C1 5M)
\*2. Models with robot (bending-resistant) cable are also available with "-R" in the model number. (Example: E2E-C04S12-WC-C1-R 2M)
\*3. Models with 5-m robot (bending-resistant) cable are also available with "-R" and the "5M" suffix in the model number. (Example: E2E-C04S12-WC-C1-R 5M)

## E2E

#### Unshielded Models [Refer to Dimensions on page 13.]



Appear-	Sensing	Connecting	Cable	Operation	Wire color /	Mo	odel		
ance	distance	method	specifications	mode	pin arrangement	NPN output	PNP output		
		Pre-wired Models	PVC	NO	Brown: +V	E2E-C03N02-WC-C1 2M *1	E2E-C03N02-WC-B1 2M *1		
0 -1:-		(2 m)	(oil-resistant)	NC	Black: Output Blue: 0 V	E2E-C03N02-WC-C2 2M *1	E2E-C03N02-WC-B2 2M *1		
3 dia.	2 mm	M8 Pre-wired	PVC	NO	1: +V, 3: 0 V.	E2E-C03N02-CJ-C1 0.3M	E2E-C03N02-CJ-B1 0.3M		
		Connector Models (0.3 m)	(oil-resistant)	NC	4: Control output	E2E-C03N02-CJ-C2 0.3M	E2E-C03N02-CJ-B2 0.3M		
		Pre-wired Models	PVC	NO	Brown: +V	E2E-C04N03-WC-C1 2M *1 *2	E2E-C04N03-WC-B1 2M *1 *2		
		(2 m)	(oil-resistant)	NC	Black: Output Blue: 0 V	E2E-C04N03-WC-C2 2M *1 *2	E2E-C04N03-WC-B2 2M *1 *2		
4 11		M8 Pre-wired	PVC	NO		E2E-C04N03-CJ-C1 0.3M	E2E-C04N03-CJ-B1 0.3M		
4 dia.	3 mm	Connector Models (0.3 m)	(oil-resistant)	NC	1: +V,	E2E-C04N03-CJ-C2 0.3M	E2E-C04N03-CJ-B2 0.3M		
		M8 Connector		NO	3: 0 V, 4: Control output	E2E-C04N03-MC-C1	E2E-C04N03-MC-B1		
		Models		NC		E2E-C04N03-MC-C2	E2E-C04N03-MC-B2		
		Pre-wired Models (2 m)	Pre-wired Models	Pre-wired Models	PVC	NO	Brown: +V	E2E-C06N04-WC-C1 2M *1 *2	E2E-C06N04-WC-B1 2M *1 *2
			(oil-resistant)	NC	Black: Output Blue: 0 V	E2E-C06N04-WC-C2 2M *1 *2	E2E-C06N04-WC-B2 2M *1 *2		
0.5.11		M8 Pre-wired Connector Models (0.3 m)		PVC	NO		E2E-C06N04-CJ-C1 0.3M	E2E-C06N04-CJ-B1 0.3M	
6.5 dia.	4 mm		(oil-resistant)	NC	1: +V, 3: 0 V, 4: Control output	E2E-C06N04-CJ-C2 0.3M	E2E-C06N04-CJ-B2 0.3M		
		M8 Connector		NO		E2E-C06N04-MC-C1	E2E-C06N04-MC-B1		
		Models		NC		E2E-C06N04-MC-C2	E2E-C06N04-MC-B2		
		Pre-wired Models	PVC	NO	Brown: +V	E2E-S04N02-WC-C1 2M *1	E2E-S04N02-WC-B1 2M *1		
		(2 m)	(oil-resistant)	NC	Black: Output Blue: 0 V	E2E-S04N02-WC-C2 2M *1	E2E-S04N02-WC-B2 2M *1		
M4	2 mm	M8 Pre-wired	PVC	NO	1: +V,	E2E-S04N02-CJ-C1 0.3M	E2E-S04N02-CJ-B1 0.3M		
		Connector Models (0.3 m)	(oil-resistant)	NC	3: 0 V, 4: Control output	E2E-S04N02-CJ-C2 0.3M	E2E-S04N02-CJ-B2 0.3M		
		Pre-wired Models	PVC	NO	Brown: +V	E2E-S05N03-WC-C1 2M *1 *2	E2E-S05N03-WC-B1 2M *1 *2		
		(2 m)	(oil-resistant)	NC	Black: Output Blue: 0 V	E2E-S05N03-WC-C2 2M *1 *2	E2E-S05N03-WC-B2 2M *1 *2		
145		M8 Pre-wired	PVC	NO		E2E-S05N03-CJ-C1 0.3M	E2E-S05N03-CJ-B1 0.3M		
M5	3 mm	Connector Models (0.3 m)	(oil-resistant)	NC	1: +V, 3: 0 V.	E2E-S05N03-CJ-C2 0.3M	E2E-S05N03-CJ-B2 0.3M		
		M8 Connector		NO	4: Control output	E2E-S05N03-MC-C1	E2E-S05N03-MC-B1		
		Models		NC		E2E-S05N03-MC-C2	E2E-S05N03-MC-B2		

<sup>\*1.</sup> Models with 5-m cable length are also available with "5M" suffix. (Example: E2E-C04N03-WC-C1 5M)
\*2. Models with robot (bending-resistant) cable are also available with "-R" in the model number. (Example: E2E-C04N03-WC-C1-R 2M)

## **Accessories (Sold separately)**

#### **Sensor I/O Connector (Socket on One Cable End)**

A Sensor I/O Connector is not provided with the Sensor. It must be ordered separately as required.

[Refer to *Dimensions* on page 16.]

Size	Cable	Number of cable	Cable length L (m)	Straight	Right-angle		
Size	specifications	wires (conductors)	Cable leligili L (III)	Model			
I\/IX	Robot (bending-	2	2	XS3F-M321-302-R	XS3F-M322-302-R		
	resistant) cable	S	5	XS3F-M321-305-R	XS3F-M322-305-R		

#### **Mounting Brackets**

A Mounting Bracket is not provided with the Sensor. It must be ordered separately as required.

[Refer to *Dimensions* on page 15.]

Applicable Sensors	Appearance	Model	Quantity	Remarks
E2E-C03□		Y92E-SC03	1	Mounting block for 3 dia., M3-20 Hexagon socket head cap screws: 2pieces, M3 × P0.5 Hexagon nuts: 2pieces, Washers: 2pieces
E2E-C04□		Y92E-SC04	1	Mounting block for 4 dia., M3-20 Hexagon socket head cap screws: 2pieces, M3 × P0.5 Hexagon nuts: 2pieces, Washers: 2pieces
E2E-C05□		Y92E-SC05	1	Mounting block for 5.4 dia., M3-20 Hexagon socket head cap screws: 2 pieces, M3 × P0.5 Hexagon nuts: 2 pieces, Washers: 2 pieces
E2E-C06□		Y92E-SC06	1	Mounting block for 6.5 dia., M3-20 Hexagon socket head cap screws: 2pieces, M3 × P0.5 Hexagon nuts: 2pieces, Washers: 2pieces
E2E-S04□	0	Y92E-SS04	1	L-shaped Mounting Bracket for M4 screws
E2E-S05□		Y92E-SS05	1	L-shaped Mounting Bracket for M5 screws

#### **Nut Set**

A Nut Set is included with the Sensor. Order a Nut Set when required, e.g., if you lose the nuts.

Applicable Sensors	Model Applicable sensor outer diameter		Set contents		
E2E-S04□	Y92E-NWS04	M4	Clamping pute: 2 pieces, teethed weeker; 1 pieces		
E2E-S05□	Y92E-NWS05	M5	Clamping nuts: 2 pieces, toothed washer: 1 piece		

#### **Protective Stainless-steel Spiral Tube against Wire Breakage**

A Spiral Tube is not provided with the Sensor. It must be ordered separately as required.

[Refer to *Dimensions* on page 16.]

Applicable Sensors	Model	Applicable sensor outer diameter	Length
E2E-S04□	Y92E-STS04-05	M4	0.5 m
E2E-304L	Y92E-STS04-10	IVI4	1 m
E2E-S05□	Y92E-STS05-05	M5	0.5 m
	Y92E-STS05-10	CIVIS	1 m

## **Ratings and Specifications**

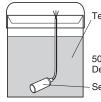
	Size	3 (	dia.	4 (	dia.	5.4 dia.	6.5	dia.		14		<b>1</b> 5
	Type	Shielded	Unshielded	Shielded	Unshielded	Shielded	Shielded	Unshielded	Shielded	Unshielded	Shielded	Unshielded
Item	Model	E2E- C03SR8	E2E- C03N02	E2E- C04S12	E2E- C04N03	E2E- C05S01	E2E- C06S02□	E2E- C06N04	E2E- S04SR8	E2E- S04N02□	E2E- S05S12□	E2E- S05N03□
Sensing (at 23°C	distance	0.8 mm ±10%	2 mm ±10%	1.2 mm ±10%	3 mm ±10%	1mm ±10%	2 mm ±10%	4 mm ±10%	0.8 mm ±10%	2 mm ±10%	1.2 mm ±10%	3 mm ±10%
Setting	distance *1	0 to 0.56	0 to 1.4	0 to 0.84	0 to 2.1	0 to 0.7	0 to 1.4	0 to 2.8	0 to 0.56	0 to 1.4	0 to 0.84	0 to 2.1
	distance × 0.7) tial travel	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
	ble object		of sensing dis		decreases w	ith non-form	us motal Ro	for to Engine	erina Data o	n nage 7 )		
	d sensing	Iron, 3 × 3 × 1 mm	Iron, 6 × 6 × 1 mm	Iron, 4 × 4 × 1 mm	Iron, 9 x 9 x 1 mm	Iron, 5.4 × 5.4 × 1 mm	Iron, 6.5 × 6.5 × 1 mm	Iron, 12×12 ×1 mm	Iron, 3 × 3 × 1 mm	Iron, 6 × 6 × 1 mm	Iron, 4 × 4 × 1 mm	Iron, 9 × 9 × 1 mm
	e frequency *2	5 kHz	3.5 kHz	4 kHz	2 kHz	4 kHz	3 kHz	3 kHz	5 kHz	3.5 kHz	4 kHz	2 kHz
	upply voltage *3	pply voltage *3 10 to 30 VDC (including 10% ripple (p-p))										
Current	consumption	10 mA max										
Control	Load current	50 mA max		100 mA ma	ıx.		200 mA ma (60 to 70°C		50 mA max	<b>ι</b> .	100 mA ma	ıx.
output *4	Residual voltage	2 V max. *5										
Indicato	ors	Operation in	ndicator: Yell	ow (complies	s with Europe	an standard	EN60947-5-	2) Lights dur	ing output.			
Operation	on mode		open collectels: NO, B2/0		IPN open col IC	lector						
Protecti	on circuits	Output reve	erse polarity p	protection, Po	ower source	circuit revers	e polarity pro	tection, Surg	e suppresso	r, Load short	-circuit prote	ction
Ambien	t iture range	Operation a	and storage:	-25 to 70°C	(with no icing	or condensa	ation)					
Ambien		Operation a	and storage:	35% to 95%	(with no cond	densation)						
Tempera		±15% max.	±15% max. of sensing distance at 23°C within temperature range of –25 to 70°C									
Voltage	influence	±2.5% max. of sensing distance at rated voltage in the rated voltage ±15% range										
	on resistance	50 M $\Omega$ min. (at 500 VDC) between current-carrying parts and case										
	ic strength	500 VAC, 50/60 Hz for 1 minute between current-carrying parts and case  Destruction: 10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions										
	n resistance esistance				in X, Y, and 2		s each in X, Y	', and ∠ direc	ctions			
	of protection				: oil-resistant							
Degree	Pre-wired	Yes	11 07, 111 11000	Yes	. on resistant	Yes	Yes		Yes		Yes	
Con- necting	Models M8 Pre-wired Connector	Yes		Yes		No	Yes		Yes		Yes	
method	Models M8 Connector	No		Yes		No	Yes		No		Yes	
	Models Pre-wired Models	Approx. 25 g	Approx.	Approx. 35 g	Approx. 35 g	Approx. 35 g	Approx. 55 g	Approx. 55 g	Approx.	Approx.	Approx. 35 g	Approx. 40 g
Weight (packed state)	M8 Pre-wired Connector Models	Approx. 20 g	Approx. 20 g	Approx.	Approx. 20 g		Approx. 20 g	Approx. 25 g	Approx. 20 g	Approx. 20 g	Approx. 20 g	Approx. 20 g
otatoj	M8 Connector Models			Approx. 10 g	Approx. 10 g		Approx. 10 g	Approx. 15 g			Approx. 15 g	Approx. 15 g
	Case	SUS303 (EN 1.4305) *7    SUS303 (EN 1.4305) *7   SUS303 (EN 1.4305) *7   plated brass							1.5			
Materi-	Sensing surface	Heat-resista	ant ABS			5.400						
als	Clamping nuts *8	No SUS430 (EN 1.4016) *7										
	Toothed washer *8	No							SUS303 (E	N 1.4305) *7		
	Cable	Polyvinyl ch	nloride (PVC)									
Acces	Instruction manual	Yes										
Acces- sories	Model label	Yes										
	Mounting brackets	Sold separa	ately									

- \*1. Using within the set distance enables high-speed responsiveness and a more stable repeat accuracy.
- \*2. The response frequency is an average value.
- \*3. When used at a power of 12 V, the Sensor is less susceptible to the effects of internal self heat generation and therefore a more stable repeat accuracy can be
- \*4. When the control output is 20 mA or less, the Sensor is less susceptible to the effects of internal self heat generation and therefore a more stable repeat accuracy can be obtained.
- \*5. 3 dia., M4: load current 50 mA, cable length 2 m 4 dia., 5.4 dia., M5: load current 100 mA, cable length 2 m
  - 6.5 dia.: load current 200 mA, cord length 2 m
- \*6. Oil resistance in-house standard: Performance with respect to water insoluble oil. (Test at right)
- \*7. Material name in EN standards.
- \*8. Clamping nuts: 2 pieces, toothed washer: 1 piece

#### Oil resistance test

After the test time elapses, the characteristics below are checked for problems.

- (1) Visual appearance (no damage that affects product characteristics)
- (2) Operation check (ON/OFF)
- (3) Insulation resistance (50 MΩ min. at 500 VDC)
  (4) Dielectric strength (500 VAC, 1 min.)
- (5) Water resistance (IP67)



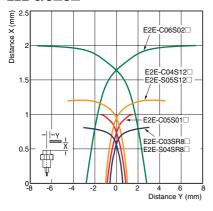
Test oil: Water insoluble oil Velocite No. 3 (manufactured by Exxon Mobil) 50°C × 250 hours Depth 10 cm

Sensor

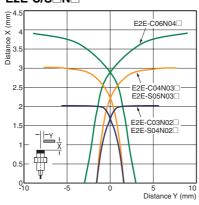
## **Engineering Data (Reference Value)**

#### **Sensing Area**

## Shielded Models E2E-C/S□S□



## Unshielded Models E2E-C/S□N□



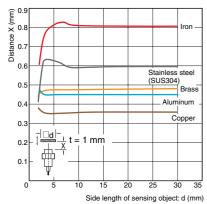
**Note:** The workpiece is a standard sensing object.

For details, refer to *Ratings and Specifications* on page 6.

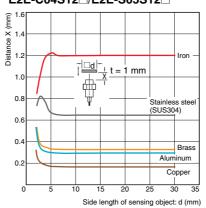
#### **Influence of Sensing Object Size and Material**

#### **Shielded Models**

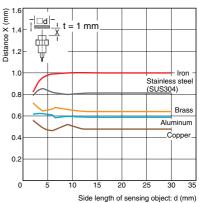
#### E2E-C03SR8 /E2E-S04SR8



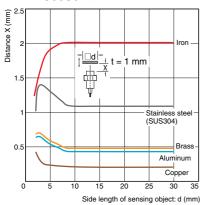
#### E2E-C04S12 | /E2E-S05S12 |



#### E2E-C05S01

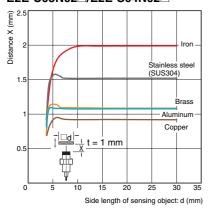


#### E2E-C06S02

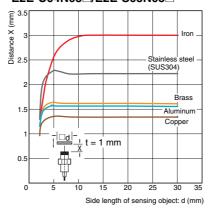


#### Unshielded Models

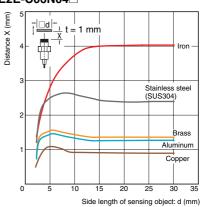
#### E2E-C03N02 | /E2E-S04N02 |



#### E2E-C04N03 /E2E-S05N03



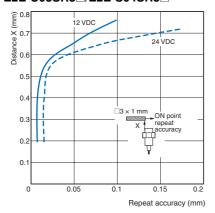
#### E2E-C06N04□



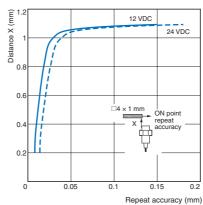
#### **Distance - Horizontal Repeat Accuracy**

#### **Shielded Models**

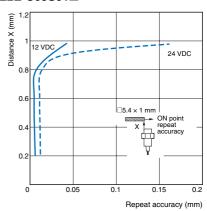
#### E2E-C03SR8 /E2E-S04SR8



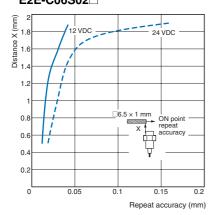
#### E2E-C04S12 / E2E-S05S12



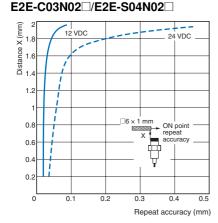
#### E2E-C05S01



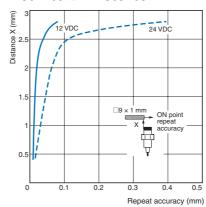
#### E2E-C06S02



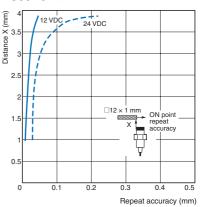
#### **Unshielded Models**



#### E2E-C04N03 / E2E-S05N03



#### E2E-C06N04



#### Sensing distance vs. repeat accuracy graphs

By using within the sensor installation distance, the repeat accuracy stabilizes.

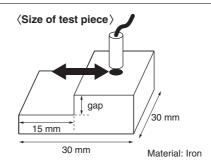
This data is reference data based on a standard sensing object, and is not a guarantee of performance.

The repeat accuracy varies depending on the effects of temperature, the material and surface condition of the sensing object, and other conditions.

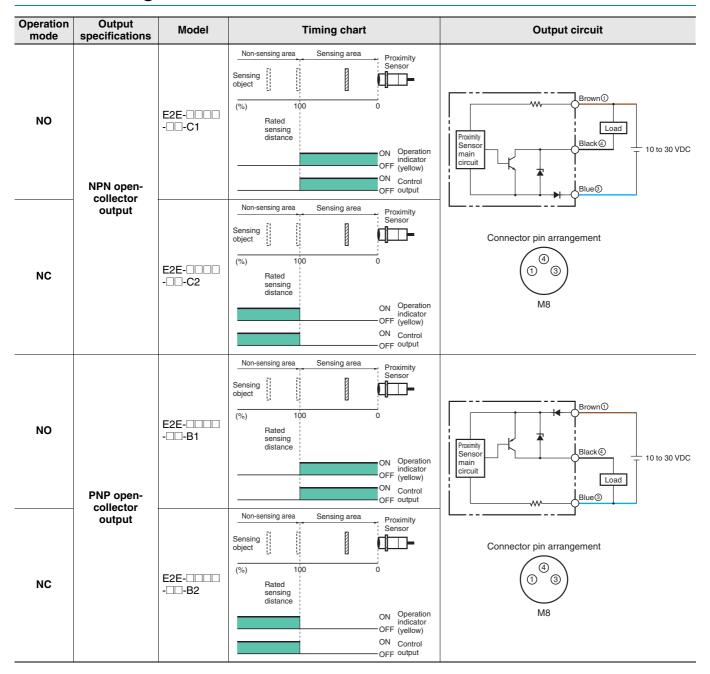
#### Minimum measurement gap

Model	Minimum gap (mm)
E2E-C03S/S04S	0.3
E2E-C03N/S04N	0.6
E2E-C04S/S05S	0.4
E2E-C04N/S05N	0.9
E2E-C05S	0.3
E2E-C06S	0.6
E2E-C06N	1.2

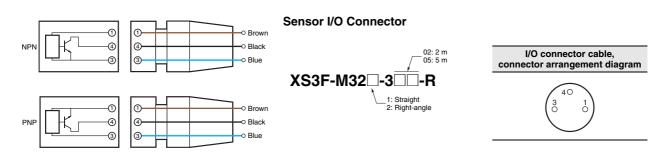
Note: Measured at constant temperature of 23°C using an iron sensing object of size at least as large as standard sensing object (see right).



## I/O Circuit Diagrams



## **Connection to I/O Connector (Connector Models, Pre-wired Connector Models)**



## **Safety Precautions**

Refer to Warranty and Limitations of Liability.



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



#### CAUTION

- Do not short the load. Explosion or burning may result.
- Do not supply power to the Sensor with no load, otherwise Sensor may be damaged.



#### **Precautions for Correct Use**

Do not use this product under ambient conditions that exceed the ratings.

#### Design

#### **Influence of Surrounding Metal**

When mounting the Sensor within a metal panel, ensure that the clearances given in the following table are maintained. Failure to maintain these distances may cause deterioration in the performance of the Sensor.

#### (Shielded Models)







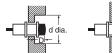


(Unit: mm)

Siz	e	3 dia.	4 dia.	5.4 dia.	6.5 dia.	M4	M5
Item		5 uia.	4 ula.	3.4 ula.	0.5 dia.	IVIT	IVIS
L		0	0	0	0	0	0
m		3	5	3	6	3	5
d		3	4	5.4	6.5	4	5
D		0	0	0	0	0	0
n		8	10	8	12	8	10
С		0	0	0	2	0	0

#### (Unshielded Models)





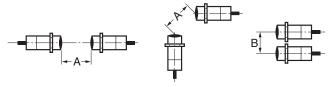
/1	Init:	mm

Size Item	3 dia.	4 dia.	6.5 dia.	M4	M5
L	6	6	12	6	6
m	6	9	8	6	9
d	9	12	24	9	12
D	6	6	12	6	6
n	16	20	24	16	20

If mounted in a surrounding non-magnetic metal such as aluminum or copper, the sensing distance may shorten by about 40 to 50%. If used in a recessed installation, take into consideration the effects of the material on the sensing distance.

#### **Mutual Interference**

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



#### **Mutual Interference**

(Unit: mm)

Siz	3 dia.		4	dia.	5.4 dia.	6.5 dia.		M4		M5	
Item	Shielded	Unshielded	Shielded	Unshielded	Shielded	Shielded	Unshielded	Shielded	Unshielded	Shielded	Unshielded
Α	20	80	20	80	20	20	80	20	80	20	80
B *	15	60	15	60	15	15	60	15	60	15	60

<sup>\*</sup> Values when the connector size is not taken into consideration.

#### Mounting

#### **Tightening Force**

#### (Mounting threaded models (E2E-S□))

Do not tighten the nut with excessive force. A washer must be used with the nut.



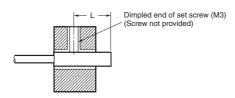
Note: 1. Only use the provided nut and toothed washer.
Risk of changes in the sensing distance and damage if a different material is used. If you lose the nut or washer, purchase an optional nut

2. The following strengths assume washers are being used.

Size	IV	14	M5		
Item	Shielded	Unshielded	Shielded	Unshielded	
Tr	0.8	N⋅m	1 N	J·m	

Note: Only use the provided nut.

#### (Mounting unthreaded cylindrical models (E2E-C□))



S	Size	3 dia.		4 dia.		5.4 dia.	6.5 dia.	
Item		Shielded	Unshielded	Shielded	Unshielded	Shielded	Shielded	Unshielded
L *		9 to 21 mm	15 to 27 mm	8 to 21 mm	14 to 27 mm	8 to 21 mm	12 to 26 mm	
Torque	)		0.2 N·r	n max.	0.4	I N⋅m m	ax.	

<sup>\*</sup> Excluding the operation indicator area

When using a set screw, tighten it to the torque indicated in the table above.

#### Oil resistance

In accordance with our oil resistance standard, we test oil resistance based on water insoluble oil (complies with test oil based on JIS C0920, Appendix 1).

When water soluble cutting oil is used, durability varies due to the dilution ratio and other factors.

Please test oil resistance using the actual oil that will be used.

#### High-speed responsiveness

To obtain a better high-speed response, it is recommended that you use the sensor at about 50% of the possible sensing distance. A high-speed response may not be obtained with some sensing object surfaces, materials, and shapes, or when the sensing distance is greater than the set distance.

For the effects of materials, refer to Engineering Data on page 7.

#### ● Protective Stainless-steel Spiral Tube

The spiral tube is in a fixed state and is intended to provide protection against wire breakage due to shock from tools or other objects.

#### Repeated cable bending tolerance

If you require repeated bending tolerance, use a sensor with a robot (bending-resistant) cable or use a Connector Model together with a connector cable that is specified for bending tolerance. (Example: XS3F-M321-□□□-R)

Refer to Sensor I/O Connector on page 5.

#### Block type mounting accessories

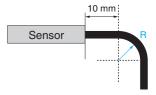
Due to differences in dimensional tolerances, these cannot be used with older small diameter proximity sensors. (E2E-CR6 $\square$ , E2E-CR8 $\square$ , E2E-C1 $\square$ )

#### Bending radius for mounting

If the cable is bent from its base, the resin on the surface of the cable may peel off, however, this will not affect the protective structure or sensing performance.

Avoid bending the cable at less than 10 mm from the base. When bending the cable, refer to the table below.

Cable diameter	Bending radius*		
3 dia., M4	7 mm		
4 dia., 5.4 dia., M5	9 mm		
6.5 dia.	12 mm		



<sup>\*</sup> For a robot (bending-resistant) cable, multiply the bending radius in the above table by 1.7.

#### Total Cable Length

If you extend the cable length, use a conductor cross section of 0.14  $\rm mm^2$  or greater and do not exceed a total length of 200 m for standard cables or robot (bending-resistant) cables. It is assumed that an independent metal conduit will be used.

#### **Sensors**

**Dimensions** 

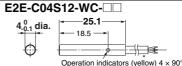


#### **Mounting Hole Dimensions**



Dimension	3 dia.	4 dia.	5.4 dia.	6.5 dia.	M4	M5
F (mm)	3.3 0 +0.5	4.2 0 +0.5	5.7 <sub>0</sub> <sup>+0.5</sup>	7 0 +0.5	4.5 +0.5	5.5 <sup>+0.5</sup> <sub>0</sub>

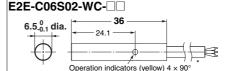
#### E2E-C03SR8-WC-2.4-dia. vinyl-insulated round cable with 3 conductors 3<sub>-0.1</sub> dia. (Conductor cross section: 0.09 mm<sup>2</sup> Insulator diameter: 0.7 mm), Standard length: 2 m Operation indicators (yellow) $4 \times 90^{\circ}$



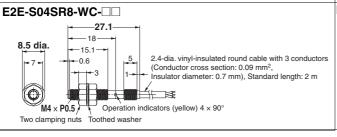
2.9-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.14 mm², Ínsulator diameter: 0.8 mm), Standard length: 2 m Model with robot (bending-resistant) cable: 2.9-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.15 mm², Insulator diameter: 1.05 mm), Standard length: 2 m

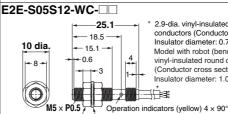
#### **E2E-C05S01-WC-**□□ 25.1 5.4<sub>-0.1</sub> dia. 18.5 Operation indicators (yellow) 4 × 90°

2.9-dia, vinvl-insulated round cable with 3 conductors (Conductor cross section: 0.14 mm², Insulator diameter: 0.8 mm), Standard length: 2 m Model with robot (bending-resistant) cable: 2.9-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.15 mm² Insulator diameter: 1.05 mm), Standard length: 2 m



4-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.14 mm², Insulator diameter: 0.85 mm), Standard length: 2 m Model with robot (bending-resistant) cable: 4-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section:  $0.3\,\mathrm{mm}^2$ , Insulator diameter: 1.2 mm), Standard length: 2 m



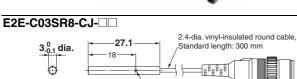


2.9-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.09 mm<sup>2</sup>, Insulator diameter: 0.7 mm), Standard length: 2 m Model with robot (bending-resistant) cable: 2.9-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.15 mm<sup>2</sup> Insulator diameter: 1.0 mm), Standard length: 2 m #<u></u>

Two clamping nuts Toothed washer

#### M8 Pre-wired Connector Models (0.3 m) (Shielded)

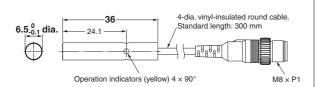




Operation indicators (yellow) 4 × 90

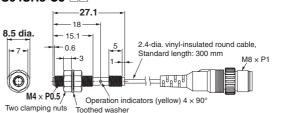
#### E2E-C04S12-CJ-2.9-dia. vinyl-insulated round cable, -25.1 4<sub>-0.1</sub> dia. Standard length: 300 mm 18.5 TAU AU Operation indicators (yellow) 4 × 90° M8 × P1

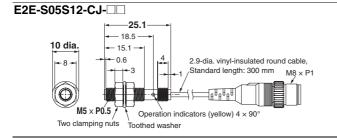
#### E2E-C06S02-CJ-





M8 × P1

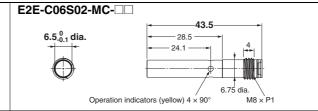


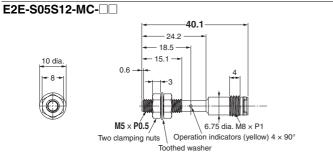


#### **M8 Connector Models (Shielded)**



## **E2E-C04S12-MC-**40.1 40.1 40.1 August 18.5 Operation indicators (yellow) 4 × 90° M8 × P1





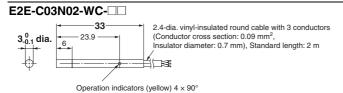
#### **Pre-wired Models (Unshielded)**

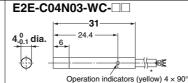


#### **Mounting Hole Dimensions**



Dimension	3 dia.	4 dia.	6.5 dia.	M4	M5
F (mm)	3.3 0 +0.5	4.2 +0.5	7 0 +0.5	4.5 <sup>+0.5</sup> <sub>0</sub>	5.5 0 +0.5

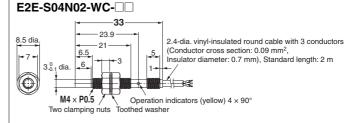




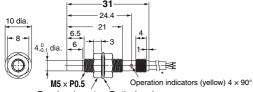
\* 2.9-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.14 mm², Insulator diameter: 0.8 mm), Standard length: 2 m Model with robot (bending-resistant) cable: 2.9-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.15 mm², Insulator diameter: 1.05 mm), Standard length: 2 m

## 

\* 4-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.14 mm², Insulator diameter: 0.85 mm), Standard length: 2 m Model with robot (bending-resistant) cable: 4-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.3 mm², Insulator diameter: 1.2 mm), Standard length: 2 m



#### E2E-S05N03-WC-



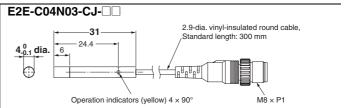
Two clamping nuts Toothed washer

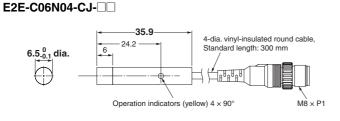
2.9-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.14 mm², Insulator diameter: 0.8 mm), Standard length: 2 m Model with robot (bending-resistant) cable: 2.9-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.15 mm², Insulator diameter: 1.05 mm), Standard length: 2 m

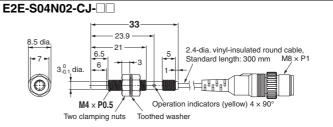
#### M8 Pre-wired Connector Models (0.3 mm) (Unshielded)

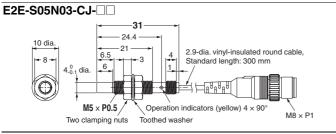


# E2E-C03N02-CJ 33 2.4-dia. vinyl-insulated round cable, Standard length: 300 mm Operation indicators (yellow) 4 × 90° M8 × P1



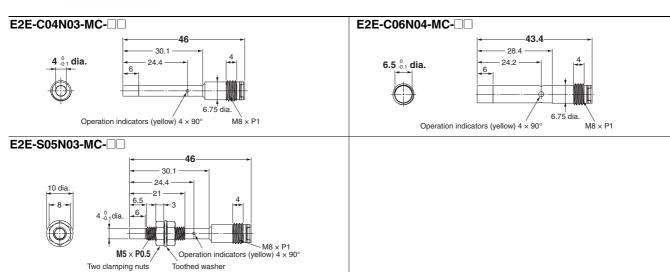






#### **M8 Connector Models (Unshielded)**





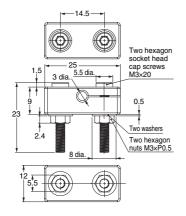
## **Accessories (Sold Separately)**

#### **Mounting Brackets**

#### Y92E-SC03 (3-dia. block)



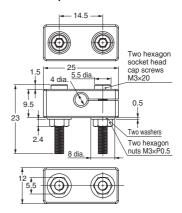
Material: Iron



#### Y92E-SC04 (4-dia. block)



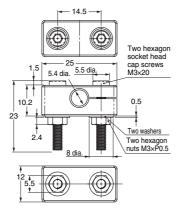
Material: Iron



#### Y92E-SC05 (5.4-dia. block)



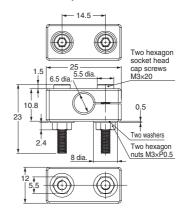
Material: Iron



#### Y92E-SC06 (6.5-dia. block)



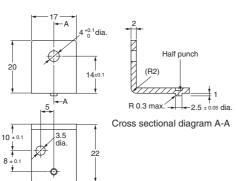
Material: Iron



#### Y92E-SS04 (for M4 screw)



Material: Iron

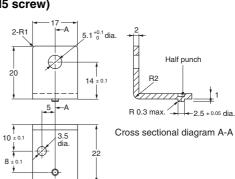


#### Y92E-SS05 (for M5 screw)

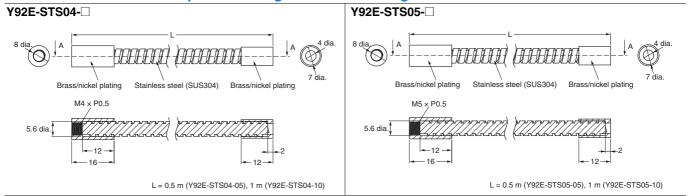




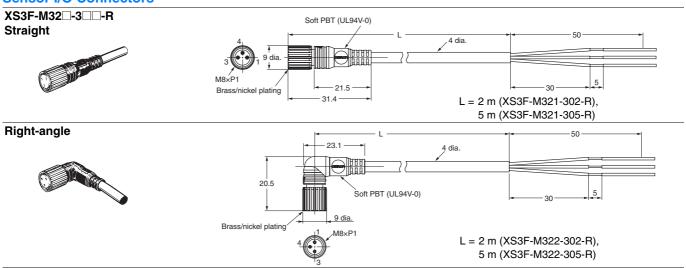
2-R1



#### **Protective Stainless-steel Spiral Tubes against Wire Breakage**



#### **Sensor I/O Connectors**



## Terms and Conditions of Sale

- Offer; Acceptance. These terms and conditions (these "Terms") are deemed part of all quotes, agreements, purchase orders, acknowledgments, price lists, catalogs, manuals, brochures and other documents, whether electronic or in catalogs, manuals, brochures and other documents, whether electronic or in writing, relating to the sale of products or services (collectively, the "Products") by Omron Electronics LLC and its subsidiary companies ("Omron"). Omron objects to any terms or conditions proposed in Buyer's purchase order or other documents which are inconsistent with, or in addition to, these Terms. Prices: Payment Terms. All prices stated are current, subject to change without notice by Omron. Omron reserves the right to increase or decrease prices on any unshipped portions of outstanding orders. Payments for Products are due net 30 days unless otherwise stated in the invoice. Discounts. Cash discounts, if any, will apply only on the net amount of invoices sent to Buyer after deducting transportation charges, taxes and duties, and will be allowed only if (i) the invoice is paid according to Omron's payment terms and (ii) Buyer has no past due amounts.

- and (ii) Buyer has no past due amounts.

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- Orders. Omron will accept no order less than \$200 net billing.

  Governmental Approvals. Buyer shall be responsible for, and shall bear all costs involved in, obtaining any government approvals required for the importation or sale of the Products.
- Taxes. All taxes, duties and other governmental charges (other than general real property and income taxes), including any interest or penalties thereon, imposed directly or indirectly on Omron or required to be collected directly or indirectly by Omron for the manufacture, production, sale, delivery, importation, consumption or use of the Products sold hereunder (including customs duties and sales, excise, use, turnover and license taxes) shall be charged to and remitted by Buyer to Omron.

  Financial. If the financial position of Buyer at any time becomes unsatisfactory
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  10. Force Majeure. Omron shall not be liable for any delay or failure in delivery
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  - constitute delivery to Buyer; c. All sales and shipments of Products shall be FOB shipping point (unless oth-
- c. All sales and shipments of Products shall be FOB shipping point (unless otherwise stated in writing by Omron), at which point title and risk of loss shall pass from Omron to Buyer; provided that Omron shall retain a security interest in the Products until the full purchase price is paid;
   d. Delivery and shipping dates are estimates only; and
   e. Omron will package Products as it deems proper for protection against normal handling and extra charges apply to special conditions.

  12. Claims. Any claim by Buyer against Omron for shortage or damage to the Products occurring before delivery to the carrier must be presented in writing to Omron within 30 days of receipt of shipment and include the original transportation bill signed by the carrier noting that the carrier received the Products. portation bill signed by the carrier noting that the carrier received the Products from Omron in the condition claimed.
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  (b) <u>Limitations</u>. OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABIL-

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