OMRON

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.

Refer to Safety Precautions on page 10.



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

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	- 1 2 3 4 - 5 -	67-8	
No.	Classification	Code	Meaning
	Case motorial and shape	С	Cylindrical
0		S	SUS, threaded
		03	Outer diameter 3 mm
۲	Sizo	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
	Shielding	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
5	Connecting method	MC	M8 Connector, 3-pin
		CJ	M8 Pre-wired Connector, 3-pin
	Output aposifications	В	DC 3-wire PNP open-collector output
0	Output specifications	С	DC 3-wire NPN open-collector output
	Operation mode	1	Normally open (NO)
()	Operation mode	2	Normally closed (NC)
	Oakla anasifiastiana	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.

OMRON

Ordering Information

Sensors

Shielded Models [Refer to Dimensions on page 12.]

Appear-	Sensing	Connecting	Cable	Operation	Wire color /	Mo	del
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 dia		(2 m)	(oil-resistant)	NC	Blue: 0 V	E2E-C03SR8-WC-C2 2M *1	E2E-C03SR8-WC-B2 2M *1
3 dia.	0.8 mm	M8 Pre-wired	PVC	NO	1: +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	E2E-C04S12-WC-C1 2M *1 *2 *3	E2E-C04S12-WC-B1 2M *1 *2 *3
	- Sensing distance 0.8 mm 1.2 mm 1.2 mm 0.1.2 mm 0.0.8 mm 1.2 mm 1.2 mm 1.2 mm	(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 dia		M8 Pre-wired	PVC	NO		E2E-C04S12-CJ-C1 0.3M	NPN output PNP output C03SR8-WC-C1 2M *1 E2E-C03SR8-WC-B1 2M *1 C03SR8-WC-C2 2M *1 E2E-C03SR8-WC-B2 2M *1 C03SR8-CJ-C1 0.3M E2E-C03SR8-CJ-B1 0.3M C03SR8-CJ-C2 0.3M E2E-C03SR8-CJ-B2 0.3M C04S12-WC-C1 2M *1 *2 *3 E2E-C04S12-WC-B1 2M *1 *2 *3 C04S12-WC-C2 2M *1 *2 *3 E2E-C04S12-WC-B2 2M *1 *2 *3 C04S12-WC-C2 0.3M E2E-C04S12-CJ-B2 0.3M C04S12-CJ-C1 0.3M E2E-C04S12-CJ-B2 0.3M C04S12-WC-C2 E2E-C04S12-MC-B1 C04S12-MC-C1 E2E-C04S12-MC-B1 C04S12-MC-C2 E2E-C04S12-MC-B1 C04S12-MC-C1 E2E-C04S12-MC-B1 C04S12-MC-C2 E2E-C04S12-MC-B1 C04S12-MC-C2 E2E-C04S12-MC-B1 C04S12-MC-C1 E2E-C05S01-WC-B1 2M *1 *2 *3 C05S01-WC-C1 2M *1 *2 *3 E2E-C06S02-WC-B1 2M *1 *2 *3 C06S02-WC-C1 2M *1 *2 *3 E2E-C06S02-WC-B2 2M *1 *2 *3 C06S02-WC-C2 E2E-C06S02-WC-B2 2M *1 *2 *3 C06S02-MC-C1 E2E-C06S02-MC-B1 C06S02-MC-C1 E2E-S04SR8-WC-B1 2M *1 S04SR8-WC-C2 2M *1 E2E-S04SR8-WC-B1 2M *1 S04
4 ula.	1.2 mm	Models (0.3 m)	(oil-resistant)	NC	1: +V,	E2E-C04S12-CJ-C2 0.3M	E2E-C04S12-CJ-B2 0.3M
5.4 dia. 1 mm		M8 Connector		NO	4: Control output	E2E-C04S12-MC-C1	E2E-C04S12-MC-B1
		Models		NC		E2E-C04S12-MC-C2	E2E-C04S12-MC-B2
E 4 dia		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 uia.	l mm	(2 m)	(oil-resistant)	NC	Blue: 0 V	E2E-C05S01-WC-C2 2M *1 *2	E2E-C05S01-WC-B2 2M *1 *2
3 dia. 0, 4 dia. 1 5.4 dia. 1 6.5 dia. 3 M4 0, M5 1		Pre-wired Models	PVC (oil-resistant)	NO	Brown: +V	E2E-C06S02-WC-C1 2M *1 *2 *3	E2E-C06S02-WC-B1 2M *1 *2 *3
		(2 m)		NC	Blue: 0 V	E2E-C06S02-WC-C2 2M *1 *2 *3	E2E-C06S02-WC-B2 2M *1 *2 *3
		M8 Pre-wired Connector Models (0.3 m)	PVC (oil-resistant)	NO	1: +V, 3: 0 V, 4: Control output	E2E-C06S02-CJ-C1 0.3M	E2E-C06S02-CJ-B1 0.3M
	2 mm			NC		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	E2E-S04SR8-WC-C1 2M *1	E2E-S04SR8-WC-B1 2M *1
M4	0.0	(2 m)	(oil-resistant)	NC	Blue: 0 V	E2E-S04SR8-WC-C2 2M *1	E2E-S04SR8-WC-B2 2M *1
1014	0.8 mm	M8 Pre-wired	PVC	NO	1: +V,	E2E-S04SR8-CJ-C1 0.3M	E2E-S04SR8-CJ-B1 0.3M
		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	Blue: 0 V	E2E-S05S12-WC-C2 2M *1 *2 *3	E2E-S05S12-WC-B2 2M *1 *2 *3
МБ		M8 Pre-wired	PVC	NO		E2E-S05S12-CJ-C1 0.3M	E2E-S05S12-CJ-B1 0.3M
CIVI	1.2 mm	Models (0.3 m)	(oil-resistant)	NC	1: +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

*1. 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 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 2M)

Appear-	Sensing	Connecting	Cable	Operation	Wire color /	Ma	del
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
2 dia	0	(2 m)	Cable specifications Operation mode Wire color / pin arrangement NO NPN output Model PVC (oil-resistant) NO Brown: +V Black: Output Blue: 0 V E2E-C03N02-WC-C1 2M *1 E2E-C03N0 E2E-C03N02-WC-C2 2M *1 *2 E2E-C03N0 E2E-C03N02-WC-C2 0.3M E2E-C04N03 E2E-C04N03-WC-C1 2M *1 *2 E2E-C04N00 E2E-C04N03-WC-C2 2M *1 *2 E2E-C04N00 E2E-C04N03-WC-C2 2M *1 *2 E2E-C04N00 E2E-C04N00 WC-C1 0.3M E2E-C04N00 E2E-C04N03-WC-C2 2M *1 *2 E2E-C04N00 E2E-C04N00 E2E-C04N03-WC-C2 2M *1 *2 E2E-C04N00 E2E-C04N00 E2E-C04N03-WC-C2 E2E-C04N00 E2E-C04N00 E2E-C04N00 WC-C2 2M *1 *2 E2E-C04N00 E2E-C04N00 E2E-C06N04-WC-C1 2M *1 *2 E2E-C06N0 E2E-C06N04-WC-C2 E2E-C06N0 *1 * V, *1 *	E2E-C03N02-WC-B2 2M *1			
5 ula.	2 mm	M8 Pre-wired	PVC	NO	1: +V,	E2E-C03N02-CJ-C1 0.3M	E2E-C03N02-CJ-B1 0.3M
		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	Operation Write Color / pin arrangement NPN output PNP output NO Brown: +V Black: Output Blue: 0 V E2E-C03N02-WC-C1 2M *1 E2E-C03N02-WC-B2 2M *1 NO 1: +V, 3: 0 V, E2E-C03N02-WC-C2 2M *1 E2E-C03N02-WC-B2 2M *1 NO 1: +V, 3: 0 V, E2E-C03N02-CJ-C1 0.3M E2E-C03N02-CJ-B2 0.3M NO Brown: +V Black: Output E2E-C04N03-WC-C2 2M *1 *2 E2E-C04N03-WC-B1 2M *1 NO Brown: +V Black: Output E2E-C04N03-WC-C2 2M *1 *2 E2E-C04N03-WC-B2 2M *1 NO Brown: +V Black: Output E2E-C04N03-WC-C2 2M *1 *2 E2E-C04N03-WC-B1 2M *1 NO 1: +V, 4: Control output E2E-C04N03-MC-C1 E2E-C04N03-GL-B1 0.3M NO 4: Control output E2E-C06N04-WC-C1 2M *1 *2 E2E-C06N04-WC-B1 2M *1 NO Brown: +V Black: Output E2E-C06N04-WC-C2 2M *1 *2 E2E-C06N04-WC-B2 2M *1 NO 4: Control output E2E-C06N04-WC-C2 2M *1 *2 E2E-C06N04-WC-B2 2M *1 NO 4: Control output E2E-C06N04-MC-C2 E2E-C06N04-WC-B2 2M *1 NO 4: Control output E2E-S04N02-WC-C2 2M *1 E2E-S04N02-WC-B2 2M *1	E2E-C04N03-WC-B2 2M *1 *2	
4 dia	0	M8 Pre-wired	PVC	NO		E2E-C04N03-CJ-C1 0.3M	E2E-C04N03-CJ-B1 0.3M
4 uia.	3 mm	Models (0.3 m)	(oil-resistant)	NC	1: +V,	E2E-C04N03-CJ-C2 0.3M	E2E-C04N03-CJ-B2 0.3M
		M8 Connector		NO	4: Control output	E2E-C04N03-MC-C1	E2E-C04N03-MC-B1
		Models		NC		E2E-C04N03-MC-C2	E2E-C04N03-MC-B2
		Pre-wired Models	PVC (oil-resistant)	NO	Brown: +V	E2E-C06N04-WC-C1 2M *1 *2	E2E-C06N04-WC-B1 2M *1 *2
6 5 dia		(2 m)		NC	Blue: 0 V	E2E-C06N04-WC-C2 2M *1 *2	E2E-C06N04-WC-B2 2M *1 *2
		M8 Pre-wired Connector Models (0.3 m)	PVC	NO	1: +V,	E2E-C06N04-CJ-C1 0.3M	E2E-C06N04-CJ-B1 0.3M
0.5 UIA.	4 mm		(oil-resistant)	NC		E2E-C06N04-CJ-C2 0.3M	E2E-C06N04-CJ-B2 0.3M
		M8 Connector		NO	4: Control output	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
N44		(2 m)	(oil-resistant)	NC	Blue: 0 V	E2E-S04N02-WC-C2 2M *1	E2E-S04N02-WC-B2 2M *1
1014	2 mm	M8 Pre-wired	PVC	NO	1: +V,	E2E-S04N02-CJ-C1 0.3M	E2E-S04N02-CJ-B1 0.3M
		Models (0.3 m)	(oil-resistant)	NC	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	Blue: 0 V	E2E-S05N03-WC-C2 2M *1 *2	E2E-S05N03-WC-B2 2M *1 *2
ME		M8 Pre-wired	PVC	NO		E2E-S05N03-CJ-C1 0.3M	E2E-S05N03-CJ-B1 0.3M
CIVI	3 mm	Models (0.3 m)	(oil-resistant)	NC	1: +V,	E2E-S05N03-CJ-C2 0.3M	E2E-S05N03-CJ-B2 0.3M
4 dia. 6.5 dia. M4		M8 Connector		NO	4: Control output	E2E-S05N03-MC-C1	E2E-S05N03-MC-B1
		Models		NC		E2E-S05N03-MC-C2	E2E-S05N03-MC-B2

Unshielded Models [Refer to Dimensions on page 13.]

*1. 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	
3120	specifications	wires (conductors)		Model		
MO	Robot (bending- resistant) cable	2	2	XS3F-M321-302-R	XS3F-M322-302-R	
M8		3	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	El)	Y92E-SC03	1	Mounting block for 3 dia., M3-20 Hexagon socket head cap screws: 2pieces, M3 \times P0.5 Hexagon nuts: 2pieces, Washers: 2pieces
E2E-C04	A A A A A A A A A A A A A A A A A A A	Y92E-SC04	1	Mounting block for 4 dia., M3-20 Hexagon socket head cap screws: 2pieces, M3 \times P0.5 Hexagon nuts: 2pieces, Washers: 2pieces
E2E-C05	A A	Y92E-SC05	1	Mounting block for 5.4 dia., M3-20 Hexagon socket head cap screws: 2 pieces, M3 \times 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	0	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 puter 2 pieces toothad weaker: 1 piece
E2E-S05	Y92E-NWS05	M5	Clamping huis. 2 pieces, tootned 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
	Y92E-STS04-05	144	0.5 m
E2E-304	Y92E-STS04-10	1014	1 m
	Y92E-STS05-05	M5	0.5 m
L2L-305L	Y92E-STS05-10	CIVI	1 m

	Sizo	30	lia	1.0	lia	5 / dia	65	dia	Δ	14	n.	15
	Jize	Shielded	llachielded	Shielded	llachielded	Shielded	Chielded	ula. Unobioldod	Shielded	Unahioldad	Shielded	Unchielded
	Type	F2E-	E2E-	F2E-	E2E-	F2E-	F2E-	E2E-	F2E-	E2E-	F2E-	F2E-
Item	Model			C04S12	C04N03	C05S01	C06S02		S04SR8	S04N02	S05S12	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
Differen	tial travel	15% max (of sensing dis	tance								
Detectal	ble object	Ferrous metal (The sensing distance decreases with non-ferrous metal. Refer to Engineering Data on page 7.)										
Standar	d sensing	Iron, 3×3 × 1 mm	Iron, 6×6 × 1 mm	Iron, 4×4 × 1 mm	Iron, 9 × 9 × 1 mm	Iron, 5.4 × 5.4	Iron, 6.5×6.5 × 1 mm	Iron, 12×12 × 1 mm	Iron, 3×3 × 1 mm	Iron, 6×6	Iron, 4×4 × 1 mm	Iron, 9×9 × 1 mm
Respons	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
Power su	pply voltage *3	10 to 30 VE	C (including	10% ripple (D-D))				•			
Current	consumption	10 mA max		FF - V	F F77							
Control	Load current	50 mA max. 100 mA max. 200 mA max. (60 to 70°C: 100 mA) 50 mA max. 100 mA max.								IX.		
output *4	Residual	2 V max. *5	5	ļ			(<u> </u>	ļ		ļ	
Indicato	rs	Operation in	ndicator: Yell	ow (complies	with Europe	an standard	EN60947-5-	2) Lights duri	ing output.			
Operatio	on mode	B1/B2: PNF	open collec	tor, C1/C2: N	IPN open col	lector						
operation		B1/C1 mod	els: NO, B2/0	C2 models: N	IC							
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
tempera	ture range	Operation a	and storage:	–25 to 70°C (with no icing	or condensa	ation)					
Ambient	t y range	Operation a	and storage:	35% to 95%	(with no cond	lensation)						
Tempera influenc	ature e	±15% max.	of sensing d	istance at 23	°C within ten	nperature rar	nge of -25 to	70°C				
Voltage influence ±2.5% max. of sensing distance at rated voltage in the rated voltage ±15% range												
Insulatio	on resistance	50 MΩ min.	. (at 500 VDC	c) between c	urrent-carryin	g parts and	case					
Dielectri	ic strength	but VAG, 50/00 HZ 101 1 minute between current-carrying parts and case										
Shock r	esistance	Destruction: To to 55 mZ, 1.5-mm double amplitude for Z hours each in X, Y, and Z directions Destruction: 500 m/s ² 10 times each in X. Y, and Z directions										
Degree	of protection	IEC 60529 IP67. in-house standards: oil-resistant *6										
Dogioo	Pre-wired											
Con	Models	Yes		res		res	Yes				res	
necting method	Connector Models	Yes		Yes		No	Yes		Yes		Yes	
Voltage in Insulation Dielectric Vibration Shock re- Degree o Con- necting method	M8 Connector Models	No		Yes No			Yes		No		Yes	
	Pre-wired Models	Approx. 25 g	Approx. 30 g	Approx. 35 g	Approx. 35 g	Approx. 35 g	Approx. 55 g	Approx. 55 g	Approx. 30 g	Approx. 30 g	Approx. 35 g	Approx. 40 g
Weight (packed state)	M8 Pre-wired Connector Models	Approx. 20 g	Approx. 20 g	Approx. 15 g	Approx. 20 g		Approx. 20 g	Approx. 25 g	Approx. 20 g	Approx. 20 g	Approx. 20 g	Approx. 20 g
	M8 Connector Models			Approx. 10 g	Approx. 10 g		Approx. 10 g	Approx. 15 g			Approx. 15 g	Approx. 15 g
	Case	SUS303 (E	N 1.4305) *7	1	1	Nickel- plated brass	SUS303 (E	N 1.4305) *7		1		<u> </u>
Materi-	Sensing surface	Heat-resista	ant ABS									
als	Clamping nuts *8	No							SUS430 (E	N 1.4016) *7		
	Toothed washer *8	No							SUS303 (E	N 1.4305) *7		
	Cable	Polyvinyl ch	nloride (PVC)									
A	Instruction manual	Yes										
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.

*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.

Test oil: Water insoluble oil

50°C × 250 hours

Depth 10 cm

Sensor

5

Velocite No. 3

(manufactured by Exxon Mobil)

- (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)

^{*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 obtained.

Engineering Data (Reference Value)

Sensing Area





Unshielded Models



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



Side length of sensing object: d (mm)



Unshielded Models E2E-C03N02
/E2E-S04N02



1. Distance X (mm) 1.4 1.2 Iron t = 1 mm 1.0 ₩ 0.8 Stainless stee (SUS304) 0.6 0.4 Brass Aluminum 0.2 Copper 0 10 15 20 25 30 35 Side length of sensing object: d (mm)

E2E-C04S12 / E2E-S05S12

E2E-C05S01





E2E-C06N04



Distance - Horizontal Repeat Accuracy

Shielded Models



Distance X (mm) _--12 VDC 1 8 24 VDC 1.6 1.2 .5 × 1 mm ON point repeat accuracy 0.8 X 品 0.6 0.4 0.2 0 0.05 0.1 0.15 0.2

E2E-C04S12 / E2E-S05S12



E2E-C05S01



E2E-C06S02

Unshielded Models



E2E-C03N02 / E2E-S04N02 1 ----12 VDC 24 VDC



E2E-C04N03 /E2E-S05N03 (mm) 12 VDC 24 VDC Distance X (1. □9 × 1 mm ON point repeat accuracy 222 х ¢ 0.5 0.2 0 0.1 0.4 0.5 0.3 Repeat accuracy (mm)

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.

\Lambda WARNING

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



<u> CAUTION</u>

• 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)

Size

Item L

m

d

D

n

с

3 dia.

0

З

3

0

8

0

0

10

0



0

8

0

			(۱	Jnit: mm)
4 dia.	5.4 dia.	6.5 dia.	M4	M5	
0	0	0	0	0	
5	3	6	3	5	
4	5.4	6.5	4	5	

0

12

2

0

8

0



(Unit: 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.

0

10

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.



Mutual Interference

Mutual Interference (Unit: mm											
Size	Size 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
В*	15	60	15	60	15	15	60	15	60	15	60

* Values when the connector size is not taken into consideration.

Mounting

Tightening Force

$\langle \text{Mounting threaded models (E2E-S} \rangle \rangle$

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	N	14	N	15
Item	Shielded	Unshielded	Shielded	Unshielded
Tr	0.8	N∙m	1 N·m	

Note: Only use the provided nut.

\langle Mounting unthreaded cylindrical models (E2E-C \Box) \rangle



	Size	3 dia.		4 0	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	
Tora	Ie	0.2 N·m max				04	I N.m m	ах

* 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 \Box , E2E-CR8 \Box , E2E-C1 \Box)

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				



* 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 mm² 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.

E2E

Dimensions

C

36113013								
Pre-wired Models M	ounting Hole Dir	mensions						
(Shielded)	-	Dimension	3 dia.	4 dia.	5.4 dia.	6.5 dia.	M4	M5
	↓ + F ►	F (mm)	3.3 ^{+0.5}	4.2 ^{+0.5}	5.7 ^{+0.5}	7 ^{+0.5}	4.5 ^{+0.5} ₀	5.5 ^{+0.5}
E2E-C03SR8-WC-			E2E-C04S	12-WC-🗆				
3.0_1 dia. 27.1 2.4-dia. viny (Conductor of a second sec	-insulated round cable with cross section: 0.09 mm ² , meter: 0.7 mm), Standard le (yellow) $4 \times 90^{\circ}$	3 conductors angth: 2 m	4.0.1 dia. * 2.9-dia 0.14 m Model with 3	25.1 18.5 Dperation indica a. vinyl-insulator dia with robot (bend conductors (Conductors)	tors (yellow) 4 > I round cable wi ameter: 0.8 mm ting-resistant) c nductor cross se	< 90° th 3 conductors), Standard leng able: 2.9-dia. vii action: 0.15 mm	(Conductor cros th: 2 m nyl-insulated rou 2,	ss section: nd cable
F2F-C05S01-WC-		E	Insulat	tor diameter: 1.0 2-WC-	5 mm), Standai	rd length: 2 m		
5.4.0.1 dia.	ction: able	6.5 ⁰ _{0.1} dia. Operation indicators (yellow) 4 × 90° * 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: 12 mm), Standard length: 2 m						
E2E-S04SR8-WC-		E	E2E-S05S1	2-WC-🗆				
8.5 dia.			 25.1 29-dia. vinyl-insulated round cable with 3 conductors (Conductor cross section: 0.09 mm², 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 mm², Insulator diameter: 1.0 mm), Standard length: 2 m M5 × P0.5 Operation indicators (yellow) 4 × 90° 					
			505 0040					
E2E-C03SR8-CJ-LL 3.0.1 dia.	dia. vinyl-insulated round ca ndard length: 300 mm $(\underline{B^{\mu}}, \underline{B^{\mu}}, \underline{B^{\mu}}, \underline{C^{\mu}}, $	able, $18 \times P1$	E2E-C04S	12-CJ-∟∟ 	5.1	2.9-dia. vinyl-ir /Standard lengt	isulated round c h: 300 mm	able,
E2E-C06S02-CJ-	·		E2E-S04S	R8-CJ-□□]			
6.5.0 dia. 24.1 Operation indicators (yellow	4-dia. vinyl-insulated ro Standard length: 300 m	und cable, im M8 × P1	8.5 dia	4 × P0.5 mping nuts	7.1 5 1 	2.4-dia. vinyl-ins Standard length ∕ → └── <u>∩ Ingla</u> (ators (yellow) 4 :	sulated round ca 1: 300 mm x 90°	ble, //8 × P1
E2E-S05S12-CJ-□□								
10 dia. 10	dia. vinyl-insulated round ca ndard length: 300 mm Ma at a baba bab s (yellow) 4 × 90°	able, 3 × P1						

12

M8 Connector Models (Shielded)





M8 Connector Models (Unshielded)





Accessories (Sold Separately)

Mounting Brackets





L = 2 m (XS3F-M322-302-R) 5 m (XS3F-M322-305-R)

Terms and Conditions of Sale

- 1. 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.
- 2
- 3.
- and (ii) Buyer has no past due amounts. Interest. Omron, at its option, may charge Buyer 1-1/2% interest per month or the maximum legal rate, whichever is less, on any balance not paid within the stated terms.
- Orders. Omron will accept no order less than \$200 net billing. Governmental Approvals. Buyer shall be responsible for, and shall bear all 6 costs involved in, obtaining any government approvals required for the impor-tation 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 7. indirectly by Omron for the manufacture, production, sale, delivery, importa-tion, 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. <u>Financial.</u> If the financial position of Buyer at any time becomes unsatisfactory
- 8. <u>Einancial</u> If the financial position of Buyer at any time becomes unsatisfactory to Omron, Omron reserves the right to stop shipments or require satisfactory security or payment in advance. If Buyer fails to make payment or otherwise comply with these Terms or any related agreement, Omron may (without liabil-ity and in addition to other remedies) cancel any unshipped portion of Prod-ucts sold hereunder and stop any Products in transit until Buyer pays all amounts, including amounts payable hereunder, whether or not then due, which are owing to it by Buyer. Buyer shall in any event remain liable for all unpaid accounts unpaid accounts.
- <u>Cancellation</u>, <u>Etc.</u> Orders are not subject to rescheduling or cancellation unless Buyer indemnifies Omron against all related costs or expenses.
 <u>Force Majeure</u>. Omron shall not be liable for any delay or failure in delivery
- <u>Force mapping</u>. For any delay of lating in delivery resulting from causes beyond its control, including earthquakes, fires, floods, strikes or other labor disputes, shortage of labor or materials, accidents to machinery, acts of sabotage, riots, delay in or lack of transportation or the requirements of any government authority.
 <u>Shipping</u>: Delivery. Unless otherwise expressly agreed in writing by Omron: a. Shipments shall be by a carrier selected by Omron; Omron will not drop ship expecting "break down" situations.
- except in "break down" situations. b. Such carrier shall act as the agent of Buyer and delivery to such carrier shall
 - 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 received the Products
- portation bill signed by the carrier noting that the carrier received the Products from Omron in the condition claimed.
- <u>Warranties</u>. (a) <u>Exclusive Warranty</u>. Omron's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Omron (or such other period expressed 13 (b) <u>Limitations</u>. OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABIL-

Certain Precautions on Specifications and Use

- Suitability of Use. Omron Companies shall not be responsible for conformity 1. with any standards, codes or regulations which apply to the combination of the Product in the Buyer's application or use of the Product. At Buyer's request. Omron will provide application to use of the Froduct. At Buyer's application of use of the product applicable third party certification documents identifying ratings and limitations of use which apply to the Product. This information by itself is not sufficient for a complete determination of the suitability of the Prod-uct in combination with the end product, machine, system, or other application or use. Buyer shall be solely responsible for determining appropriateness of the particular Product with respect to Buyer's application, product or system. the particular Product with respect to Buyers application, product or system. Buyer shall take application responsibility in all cases but the following is a non-exhaustive list of applications for which particular attention must be given: (i) Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this document. (ii) Use in consumer products or any use in significant quantities. (iii) Energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equip-ment and installicitors cubications of the consumer to construct the construction.

inent, and installations subject to separate industry or government regulations. (iv) Systems, machines and equipment that could present a risk to life or prop erty. Please know and observe all prohibitions of use applicable to this Prod-

NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY OR IN LARGE QUANTITIES WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO

ITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS. BUYER ACKNOWLEDGES THAT IT ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE. Omron further disclaims all warranties and responsibility of any type for claims or expenses based on infringement by the Products or oth-erwise of any intellectual property right. (c) <u>Buyer Remedy</u>. Omron's sole obli-gation hereunder shall be, at Omron's election, to (i) replace (in the form originally shipped with Buyer responsible for labor charges for removal or replacement thereof) the non-complying Product, (ii) repair the non-complying Product, or (iii) repay or credit Buyer an amount equal to the purchase price of the non-complying Product; provided that in no event shall Omron be responsi-ble for warranty, repair, indemnity or any other claims or expenses regarding the Products unless Omron's analysis confirms that the Products were prop-erly handled, stored, installed and maintained and not subject to contamina-tion, abuse, misuse or inappropriate modification. Return of any Products by tion, abuse, misuse or inappropriate modification. Return of any Products by Buyer must be approved in writing by Omron before shipment. Omron Compa-nies shall not be liable for the suitability or unsuitability or the results from the use of Products in combination with any electrical or electronic components, circuits, system assemblies or any other materials or substances or environments. Any advice, recommendations or information given orally or in writing, are not to be construed as an amendment or addition to the above warranty. See http://www.omron247.com or contact your Omron representative for published information.

- Iished information.
 Limitation on Liability: Etc. OMRON COMPANIES SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE OR STRICT LIABILITY. Further, in no event shall liability of Omron Companies exceed the individual price of the Product on which liability is asserted. 14
- Indemnities. Buyer shall indemnify and hold harmless Omron Companies and their employees from and against all liabilities, losses, claims, costs and expenses (including attorney's fees and expenses) related to any claim, inves-tigation, litigation or proceeding (whether or not Omron is a party) which arises 15 or is alleged to arise from Buyer's acts or omissions under these Terms or in any way with respect to the Products. Without limiting the foregoing, Buyer (at its own expense) shall indemnify and hold harmless Omron and defend or set-tle any action brought against such Companies to the extent based on a claim that any Product made to Buyer specifications infringed intellectual property rights of another party.
- rights of another party. <u>Property: Confidentiality.</u> Any intellectual property in the Products is the exclu-sive property of Omron Companies and Buyer shall not attempt to duplicate it in any way without the written permission of Omron. Notwithstanding any charges to Buyer for engineering or tooling, all engineering and tooling shall remain the exclusive property of Omron. All information and materials supplied by Omron to Buyer relating to the Products are confidential and proprietary, and Buyer shall limit distribution thereof to its trusted employees and strictly provent disclosure to any third party. 16
- prevent disclosure to any third party. <u>Export Controls.</u> Buyer shall comply with all applicable laws, regulations and licenses regarding (i) export of products or information; (iii) sale of products to "forbidden" or other proscribed persons; and (ii) disclosure to non-citizens of 17
- "forbidden" or other proscribed persons; and (ii) disclosure to non-citizens of regulated technology or information. <u>Miscellaneous</u>. (a) <u>Waiver</u>. No failure or delay by Omron in exercising any right and no course of dealing between Buyer and Omron shall operate as a waiver of rights by Omron. (b) <u>Assignment</u>. Buyer may not assign its rights hereunder without Omron's written consent. (c) <u>Law</u>. These Terms are governed by the law of the jurisdiction of the home office of the Omron company from which Buyer is purchasing the Products (without regard to conflict of law principles). (d) <u>Amendment</u>. These Terms constitute the entire agreement between Buyer and Omron relating to the Products, and no provision may be changed or waived unless in writing singed by the parties. (e) Severability. If any provi-18 or waived unless in writing signed by the parties. (e) <u>Severability</u>. If any provi-sion hereof is rendered ineffective or invalid, such provision shall not invalidate any other provision. (f) Setoff, Buyer shall have no right to set off any amounts against the amount owing in respect of this invoice. (g) <u>Definitions</u>. As used herein, "<u>including</u>" means "including without limitation"; and "<u>Omron Compa-</u> nies" (or similar words) mean Omron Corporation and any direct or indirect subsidiary or affiliate thereof.

ADDRESS THE RISKS, AND THAT THE OMRON'S PRODUCT IS PROP-ERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

- Programmable Products. Omron Companies shall not be responsible for the user's programming of a programmable Product, or any consequence thereof. <u>Performance Data</u>. Data presented in Omron Company websites, catalogs and other materials is provided as a guide for the user in determining suitabil-ity and does not constitute a warranty. It may represent the result of Omron's test conditions, and the user must correlate it to actual application require-2 3 ments. Actual performance is subject to the Omron's Warranty and Limitations of Liability.
- Change in Specifications. Product specifications and accessories may be 4 Change in specifications. Product specifications and accessions may be changed at any time based on improvements and other reasons. It is our prac-tice to change part numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifica-tions of the Product may be changed without any notice. When in doubt, spe-cial part numbers may be assigned to fix or establish key specifications for your application. Please consult with your Omron's representative at any time to confirm actual creating of purphased Product to confirm actual specifications of purchased Product. Errors and Omissions. Information presented by Omron Companies has been
- 5 checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical or proofreading errors or omissions.



OMRON AUTOMATION AND SAFETY • THE AMERICAS HEADQUARTERS • Chicago, IL USA • 847.843.7900 • 800.556.6766 • www.omron247.com

OMRON CANADA, INC. • HEAD OFFICE Toronto, ON, Canada • 416.286.6465 • 866.986.6766 • www.omron247.com

OMRON ELECTRONICS DE MEXICO • HEAD OFFICE México DF • 52.55.59.01.43.00 • 01-800-226-6766 • mela@omron.com

OMRON ELECTRONICS DE MEXICO · SALES OFFICE Apodaca, N.L. · 52.81.11.56.99.20 · 01-800-226-6766 · mela@omron.com

OMRON ELETRÔNICA DO BRASIL LTDA • HEAD OFFICE São Paulo, SP, Brasil • 55.11.2101.6300 • www.omron.com.br OMRON ARGENTINA • SALES OFFICE Cono Sur • 54.11.4783.5300

OMRON CHILE • SALES OFFICE Santiago • 56.9.9917.3920

OTHER OMRON LATIN AMERICA SALES 54.11.4783.5300

OMRON EUROPE B.V. • Wegalaan 67-69, NL-2132 JD, Hoofddorp, The Netherlands. • +31 (0) 23 568 13 00 • www.industrial.omron.eu

Authorized Distributor:

Automation Control Systems

- Machine Automation Controllers (MAC)
 Programmable Controllers (PLC)
- Operator interfaces (HMI)
 Distributed I/O
 Software

Drives & Motion Controls

- Servo & AC Drives
 Motion Controllers & Encoders
- **Temperature & Process Controllers**
- Single and Multi-loop Controllers

Sensors & Vision

- Proximity Sensors
 Photoelectric Sensors
 Fiber-Optic Sensors
- Amplified Photomicrosensors
 Measurement Sensors
- Ultrasonic Sensors
 Vision Sensors

Industrial Components

- RFID/Code Readers
 Relays
 Pushbuttons
 Indicators
- Limit and Basic Switches
 Timers
 Counters
 Metering Devices
- Power Supplies

Safety

• Laser Scanners • Safety Mats • Edges and Bumpers • Programmable Safety Controllers • Light Curtains • Safety Relays • Safety Interlock Switches

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Omron:

<u>E2E-C04S12-WC-B1 2M</u> <u>E2E-S05N03-WC-B1 2M</u> <u>E2E-S04SR8-WC-B1 2M</u> <u>E2E-C03SR8-WC-B1 2M</u> <u>E2E-S05S12-WC-B1 2M</u> <u>E2E-S05S12-WC-C1 2M</u> <u>E2E-S05S12-WC-C1 2M</u> <u>E2E-S05S12-WC-B1 2M</u>