# OMRON Cylindrical Proximity Sensor



- Stainless steel and brass housing
- Two housing length for each type
- Pre-wired and Plug-in connector types
- Short-circuit protection and reverse polarity protection



E2EL

# Ordering Information -

## Cable types

## **Brass housing**

Diameter	Length	Mounting	Sensing		Out	lput	
			Distance	NPN / NO	NPN / NC	PNP / NO	PNP / NC
Ø6,5	30 mm	Shielded	1,5 mm	E2EL-C1R5E1 2M	E2EL-C1R5E2 2M	E2EL-C1R5F1 2M	E2EL-C1R5F2 2M
	32 mm	Non-shielded	2,0 mm	E2EL-C2ME1 2M	E2EL-C2ME2 2M	E2EL-C2MF1 2M	E2EL-C2MF2 2M
	45 mm	Shielded	1,5 mm	E2EL-C1R5E1-L 2M	E2ELC1R5E2L 2M	E2EL-C1R5F1-L 2M	E2EL-C1R5F2-L 2M
	47 mm	Non-shielded	2,0 mm	E2EL-C2ME1-L 2M	E2EL-C2ME2-L 2M	E2EL-C2MF1-L 2M	E2EL-C2MF2-L 2M
M8	30 mm	Shielded	1,5 mm	E2EL-X1R5E1 2M	E2EL-X1R5E2 2M	E2EL-X1R5F1 2M	E2EL-X1R5F2 2M
	32 mm	Non-shielded	2,0 mm	E2EL-X2ME1 2M	E2EL-X2ME2 2M	E2EL-X2MF1 2M	E2EL-X2MF2 2M
	45 mm	Shielded	1,5 mm	E2EL-X1R5E1-L 2M	E2ELX1R5E2-L 2M	E2EL-X1R5F1-L 2M	E2EL-X1R5F2-L 2M
	47 mm	Non-shielded	2,0 mm	E2EL-X2ME1-L 2M	E2EL-X2ME2-L 2M	E2EL-X2MF1-L 2M	E2EL-X2MF2-L 2M
M12	41 mm	Shielded	2,0 mm	E2EL-X2E1 2M	E2EL-X2E2 2M	E2EL-X2F1 2M	E2EL-X2F2 2M
		Shielded	4,0 mm	E2EL-X4E1-D 2M	E2EL-X4E2-D 2M	E2EL-X4F1-D 2M	E2EL-X4F2-D 2M
		Non-shielded	4,0 mm	E2EL-X4ME1 2M	E2ELX4ME2 2M	E2EL-X4MF1 2M	E2EL-X4MF2 2M
	53 mm	Shielded	2,0 mm	E2EL-X2E1-L 2M	E2EL-X2E2-L 2M	E2EL-X2F1-L 2M	E2EL-X2F2-L 2M
		Shielded	4,0 mm	E2EL-X4E1-DL 2M	E2EL-X4E2-DL 2M	E2EL-X4F1-DL 2M	E2EL-X4F2-DL 2M
		Non-shielded	4,0 mm	E2EL-X4ME1-L 2M	E2ELX4ME2-L 2M	E2EL-X4MF1-L 2M	E2EL-X4MF2-L 2M
M18	40 mm	Shielded	5,0 mm	E2EL-X5E1 2M	E2EL-X5E2 2M	E2EL-X5F1 2M	E2EL-X5F2 2M
		Shielded	8,0 mm	E2EL-X8E1-D 2M	E2EL-X8E2-D 2M	E2EL-X8F1-D 2M	E2EL-X8F2-D 2M
		Non-shielded	8,0 mm	E2EL-X8ME1 2M	E2EL-X8ME2 2M	E2EL-X8MF1 2M	E2EL-X8MF2 2M
	73 mm	Shielded	5,0 mm	E2EL-X5E1-L 2M	E2EL-X5E2-L 2M	E2EL-X5F1-L 2M	E2EL-X5F2-L 2M
		Shielded	8,0 mm	E2EL-X8E1-DL 2M	E2EL-X8E2-DL 2M	E2EL-X8F1-DL 2M	E2EL-X8F2-DL 2M
		Non-shielded	8,0 mm	E2EL-X8ME1-L 2M	E2EL-X8ME2-L 2M	E2EL-X8MF1-L 2M	E2EL-X8MF2-L 2M
M30	40 mm	Shielded	10,0 mm	E2EL-X10E1 2M	E2EL-X10E2 2M	E2EL-X10F1 2M	E2EL-X10F2 2M
		Non-shielded	15,0 mm	E2EL-X15ME1 2M	E2EL-X15ME2 2M	E2EL-X15MF1 2M	E2EL-X15MF2 2M
	80 mm	Shielded	10,0 mm	E2EL-X10E1-L 2M	E2EL-X10E2-L 2M	E2EL-X10F1-L 2M	E2EL-X10F2-L 2M
		Non-shielded	15,0 mm	E2EL-X15ME1-L 2M	E2EL-X15ME2-L 2M	E2EL-X15MF1-L 2M	E2EL-X15MF2-L 2M

## Stainless steel housing

Diameter	Length	Mounting	Sensing							
		***	Distance	NPN / NO	NPN / NC	PNP / NO	PNP / NC			
Ø6,5	30 mm	Shielded	2,0 mm	E2EL-C2E1-DS 2M	E2EL-C2E2-DS 2M	E2EL-C2F1-DS 2M	E2EL-C2F2-DS 2M			
	45 mm	Shielded	2,0 mm	E2EL-C2E1-DSL 2M	E2EL-C2E2-DSL 2M	E2EL-C2F1-DSL 2M	E2EL-C2F2-DSL 2M			
M8	30 mm	Shielded	2,0 mm	E2EL-X2E1-DS 2M	E2EL-X2E2-DS 2M	E2EL-X2F1-DS 2M	E2EL-X2F2-DS 2M			
	45 mm	Shielded	2,0 mm	E2EL-X2E1-DSL 2M	E2EL-X2E2-DSL 2M	E2EL-X2F1-DSL 2M	E2EL-X2F2-DSL 2M			
M12	41 mm	Shielded	4,0 mm	E2EL-X4E1-DS 2M	E2ELX4E2DS 2M	E2EL-X4F1-DS 2M	E2EL-X4F2-DS 2M			
	53 mm	Shielded	4,0 mm	E2EL-X4E1-DSL 2M	E2EL-X4E2-DSL 2M	E2EL-X4F1-DSL 2M	E2EL-X4F2-DSL 2M			
M18	40 mm	Shielded	8,0 mm	E2EL-X8E1-DS 2M	E2EL-X8E2-DS 2M	E2EL-X8F1-DS 2M	E2EL-X8F2-DS 2M			
	73 mm	Shielded	8,0 mm	E2EL-X8E1-DSL 2M	E2EL-X8E2-DSL 2M	E2EL-X8F1-DSL 2M	E2EL-X8F2-DSL 2M			

## Plug types

Brass housing

Diameter / Length		Mounting	Sensing		Ou	tput	
Connection			Distance	NPN / NO	NPN / NC	PNP / NO	PNP / NC
Ø6,5/	45 mm	Shielded	1,5 mm	E2EL-C1R5E1-M3	E2EL-C1R5E2-M3	E2EL-C1R5F1-M3	E2EL-C1R5F2-M3
Plug M8	47 mm	Non-shielded	2,0 mm	E2EL-C2ME1-M3	E2EL-C2ME2-M3	E2EL-C2MF1-M3	E2EL-C2MF2-M3
	54 mm	Shielded	1,5 mm	E2EL-C1R5E1-M3L	E2EL-C1R5E2-M3L	E2EL-C1R5F1-M3L	E2EL-C1R5F2-M3L
	56 mm	Non-shielded	2,0 mm	E2EL-C2ME1-M3L	E2EL-C2ME2-M3L	E2EL-C2MF1-M3L	E2EL-C2MF2-M3L
M8 /	45 mm	Shielded	1,5 mm	E2EL-X1R5E1-M3	E2EL~X1R5E2-M3	E2EL-X1R5F1-M3	E2EL-X1R5F2-M3
Plug M8	47 mm	Non-shielded	2,0 mm	E2EL-X2ME1-M3	E2EL-X2ME2-M3	E2EL-X2MF1-M3	E2EL-X2MF2-M3
	54 mm	Shielded	1,5 mm	E2EL-X1R5E1-M3L	E2EL-X1R5E2-M3L	E2EL-X1R5F1-M3L	E2EL-X1R5F2-M3L
	56 mm	Non-shielded	2,0 mm	E2EL-X2ME1-M3L	E2EL-X2ME2-M3L	E2EL-X2MF1-M3L	E2EL-X2MF2-M3L
M8 /	44 mm	Shielded	1,5 mm	E2EL-X1R5E1-M1	E2EL-X1R5E2-M1	E2EL-X1R5F1-M1	E2EL-X1R5F2-M1
Plug M12	46 mm	Non-shielded	2,0 mm	E2EL-X2ME1-M1	E2EL-X2ME2-M1	E2EL-X2MF1-M1	E2EL-X2MF2-M1
	60 mm	Shielded	1,5 mm	E2EL-X1R5E1-M1L	E2EL-X1R5E2-M1L	E2EL-X1R5F1-M1L	E2EL-X1R5F2-M1L
	62 mm	Non-shielded	2,0 mm	E2EL-X2ME1-M1L	E2EL-X2ME2-M1L	E2EL-X2MF1-M1L	E2EL-X2MF2-M1L
M12/	49 mm	Shielded	2,0 mm	E2EL-X2E1-M1	E2EL-X2E2-M1	E2EL-X2F1-M1	E2EL-X2F2-M1
Plug M12		Shielded	4,0 mm	E2EL-X4E1-DM1	E2EL-X4E2-DM1	E2EL-X4F1-DM1	E2EL-X4F2-DM1
		Non-shielded	4,0 mm	E2EL-X4ME1-M1	E2EL-X4ME2-M1	E2EL-X4MF1-M1	E2EL-X4MF2-M1
	60 mm	Shielded	2,0 mm	E2EL-X2E1-M1L	E2EL-X2E2-M1L	E2EL-X2F1-M1L	E2EL-X2F2-M1L
		Shielded	4,0 mm	E2EL-X4E1-DM1L	E2EL-X4E2-DM1L	E2EL-X4F1-DM1L	E2EL-X4F2-DM1L
		Non-shielded	4,0 mm	E2EL-X4ME1-M1L	E2EL-X4ME2-M1L	E2EL-X4MF1-M1L	E2EL-X4MF2-M1L
M18 /	53 mm	Shielded	5,0 mm	E2EL-X5E1-M1	E2EL-X5E2-M1	E2EL-X5F1-M1	E2EL-X5F2-M1
Plug M12		Shielded	8,0 mm	E2EL-X8E1-DM1	E2EL-X8E2-DM1	E2EL-X8F1-DM1	E2EL-X8F2-DM1
		Non-shielded	8,0 mm	E2EL-X8ME1-M1	E2EL-X8ME2-M1	E2EL-X8MF1-M1	E2EL-X8MF2-M1
	80 mm	Shielded	5,0 mm	E2EL-X5E1-M1L	E2EL-X5E2-M1L	E2EL-X5F1-M1L	E2EL-X5F2-M1L
		Shielded	8,0 mm	E2EL-X8E1-DM1L	E2EL-X8E2-DM1L	E2EL-X8F1-DM1L	E2EL-X8F2-DM1L
		Non-shielded	8,0 mm	E2EL-X8ME1-M1L	E2EL-X8ME2-M1L	E2EL-X8MF1-M1L	E2EL-X8MF2-M1L
M30 /	55 mm	Shielded	10,0 mm	E2EL-X10E1-M1	E2EL-X10E2-M1	E2EL-X10F1-M1	E2EL-X10F2-M1
Plug M12		Non-shielded	15,0 mm	E2EL-X15ME1-M1	E2EL-X15ME2-M1	E2EL-X15MF1-M1	E2EL-X15MF2-M1
	80 mm	Shielded	10,0 mm	E2EL-X10E1-M1L	E2EL-X10E2-M1L	E2EL-X10F1-M1L	E2EL-X10F2-M1L
		Non-shielded	15,0 mm	E2EL-X15ME1-M1L	E2EL-X15ME2-M1L	E2EL-X15MF1-M1L	E2EL-X15MF2-M1L

## Stainless steel housing

Diameter /	Length	Mounting	Sensing				
Connection			Distance	NPN / NO	NPN / NC	PNP / NO	PNP / NC
M8 /Plug M8	54 mm	Shielded	2,0 mm	E2EL-X2E1-DM3SL	E2EL-X2E2-DM3SL	E2EL-X2F1-DM3SL	E2EL-X2F2-DM3SL
M12 /	49 mm	Shielded	4,0 mm	E2EL-X4E1-DM1S	E2EL-X4E2-DM1S	E2EL-X4F1-DM1S	E2EL-X4F2-DM1S
Plug M12	60 mm	Shielded	4,0 mm	E2EL-X4E1-DM1SL	E2EL-X4E2-DM1SL	E2EL-X4F1-DM1SL	E2EL-X4F2-DM1SL
M18 /	53 mm	Shielded	8,0 mm	E2EL-X8E1-DM1S	E2EL-X8E2-DM1S	E2EL-X8F1-DM1S	E2EL-X8F2-DM1S
Plug M12	80 mm	Shielded	8,0 mm	E2EL-X8E1-DM1SL	E2EL-X8E2-DM1SL	E2ELX8F1DM1SL	E2EL-X8F2-DM1SL

# Specifications -

## Brass type

Туре		Ø	Ø6,5 M8 M12 M18 M3					130						
<b>Operating volta</b>	ge		10 to 35 VDC											
Rated supply vo	oltage		24 V	C								*****		
Current consun	nption		max.	15 mA	at 24 V	DC								
Sensing object			Ferro	Ferrous metals										
Mounting ((s)hi (n)on-shielded)			s	n	s	n	s	s	n	s	s	n	s	n
Operating dista	nce in mm		1,5	2,0	1,5	2,0	2,0	4,0	4,0	5,0	8,0	8,0	10,0	15,0
Tolerance of op	erating distan	се	±10%	)									•	
Standard target (L x W x H in mi			6,5x6	,5x1	8x8x1		12x1:	2x1		18x18x1	24x2	4x1	30x30x1	45x45x1
Differential trav	el		1%	15 %	of oper	ating	distanc	e						
Max. response i	requency in k	Hz	5,0		5,0		2,0	0,6	1,0	0,5	0,3	0,5	0,25	0,15
Control output	Туре		E2EL E1 type: NPN-NO E2 type: NPN-NC F1 type: PNP-NO F2 type: PNP-NC											
	Max-Load		200 п	ηA										
	Max-on-sta	te	2,5 V	2,5 VDC (at 200mA load current and with 2 m cable)										
	Voltage drop													
Circuit protection		Reverse polarity, output short-circuit												
Indicator			Operating indicator (yellow LED)											
Amblent temper	rature		Operating: -25° to 70°C											
Humidity			35 to 95 % RH											
Influence of terr	iperature		± 10 % max. of Sn at 23°C in temperature range of ~25° to 70°C											
Dielectric streng	gth		1.500 VAC, 50/60 Hz for 1 min. between current carry parts and case											
Electromagnetic	c compatibilit	Y EMC	EN 6094752											
Vibration resist	ance		Destruction: 10 to 70 Hz, 1,5 mm double amplitude for 1 hour each in X, Y and Z directions											
Shock resistance			Destr	uction:	300 m/	s² (ap	prox. 3	0 G) fo	r 6 tim	es each in )	K, Y an	d Z dir	ections	
Enclosure rating			IP 67	(EN 60	)947–1)									
Connection (see note 2)	Pre-wired		2 m F 0,14 r		ible, 3 x		2 m F	VC–ca	able, 3	x 0,25 mm <sup>2</sup>			2m PVC- 0,5 mm <sup>2</sup>	cable, 3 x
	Connector		M8 pl	ug	M8 plu M12 p		M12	olug						
Weight in g	Pre-wired	long	45		50		75			115			260	
		short	43		48		70			100			200	
	Connector	long	10		15		25			60			155	
		short	8		13		20			50			110	
Material	Case		Brass							•		*****		
Sensing face		e	PBTP											

Note: 1. For detailed mounting instruction please refer to page 11.

2. PUR cable and different length on request.

## Stainless steel type

Туре			Ø6,5	M8	M12	M18			
Operating voltage			10 to 35 VDC						
Rated supply volta	age		24 VDC	······································					
Current consumpt	lion		max. 15 mA at 24 VD0	2					
Mounting (see not	e 1)		Shielded						
Sensing object			Ferrous metals		· · · · · · · · · · · · · · · · · · ·				
Operating distanc	e in mm		2,0	2,0	4,0	8,0			
Tolerance of opera	ating distan	Ce	±10%						
Standard target si (L x W x H in mm,			6,5x6,5x1	8x8x1	12x12x1	24x24x1			
Differential travel			1 % 15 % of operati	ng distance					
Max. response fre	quency in k	Hz	4,0	4,0	0,6	0,25			
Control output Type Max-Load			E2 type: NP F1 type: PN	E2EL E1 type: NPN-NO E2 type: NPN-NC F1 type: PNP-NO F2 type: PNP-NC					
			200 mA						
	/lax–on–sta /oltage drop		2,5 VDC (at 200mA load current and with 2 m cable)						
Circuit protection			Reverse polarity, output short-circuit						
Indicator			Operating indicator (yellow LED)						
Ambient temperat	ure		Operating: -25° to 70°C						
Humidity			35 to 95 % RH						
Influence of tempe	erature		± 10 % max. of Sn at 23°C in temperature range of -25° to 70°C						
Dielectric strength			1.500 VAC, 50/60 Hz for 1 min. between current carry parts and case						
Electromagnetic c	ompatibility	y EMC	EN 60947-5-2						
Vibration resistand	ce		Destruction: 10 to 70 Hz, 1,5 mm double amplitude for 1 hour each in X, Y and Z directions						
Shock resistance			Destruction: 300 m/s <sup>2</sup> (approx. 30 G) for 6 times each in X, Y and Z directions						
Enclosure rating			IP 67 (EN 60947–1)						
-	Pre-wired		2 m PVCcable, 3 x 0,	14 mm <sup>2</sup>	2 m PVCcable, 3 x	0,25 mm <sup>2</sup>			
(see note 2) C	Connector			M8 plug	M12 plug				
Weight in g P	re-wired	long	45	50	75	120			
	Connector	short	43	48	70	105			
c		long	-	10	25	65			
		short	-	<u> </u>	20	55			
Material C	Case		stainless steel 1.4305	/ AISI 303					
Sensing face			РВТР	РВТР					

Note: 1. For detailed mounting instruction please refer to page 11.

2. PUR cable and different length on request.

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# Engineering Data

## Standardized characteristic for lateral approach



## Output Circuit Diagram and Timing Chart E2EL-X E







E2EL-XDED NPN Output

Sensing object	Yes No	NO	
Yellow indicator	Lit Not lit		
Control output	ON OFF		



Sensing object	Yes No	NO	NC	<b>L_</b>
Yellow indicator	Lit Not lit			
Control output				

NC

2 Output

3(-

## Pin Arrangement at Connector Types





2. Connector M12 (viewed to plug pins)



# Dimensions

Note: 1. All units are in millimeters unless otherwise indicated.

- 2. Unless otherwise specified, a tolerance of ±0.4 mm applies to all dimensions. Values in parentheses () are cumulative values and may exceed tolerance of ±0.4 mm.
- 3. The square 🗌 in the models represents the output configuration. Refer to Ordering Information.

### **Cable Types**

## E2EL-C1 R5 2M, E2EL-C2 DS 2M



#### E2EL-C1R5 -L 2M, E2EL-C2 -DSL 2M



#### E2EL-X1R5 2M, E2EL-X2 -DS 2M



#### E2EL-X1R5 -L 2M, E2EL-X2 -DSL 2M





1 (+)

4 free



E2EL-C2MD-L 2M



#### E2EL-X2M 2M



#### E2EL-X2M -L 2M



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#### E2EL-X2[] 2M, E2EL-X4[]-D 2M, E2EL-X4[]-DS 2M



#### E2EL-X2 -L 2M, E2EL-X4 -DL 2M, E2EL-X4 -DSL 2M



#### E2EL-X5 2M, E2EL-X8 -D 2M, E2EL-X8 -DS 2M



### E2EL-X5 -L 2M, E2EL-X8 -DL 2M, E2EL-X8 -DSL 2M



#### E2EL-X10 2M







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#### E2EL-X8M[] 2M



E2EL-X8M[]-L 2M



#### E2EL-X15M[] 2M



#### E2EL-X15M[]-L 2M



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#### **Plug Types**





#### E2EL-C1R5 -M3L



#### E2EL-X1R5D-M3



#### E2EL-X1R5[]-M3L, E2EL-X2[]DM3S -



#### E2EL-X1R5[]-M1



#### E2EL-X1R5 -M1L



#### E2EL-X2.-M1, E2EL-X4.-DM1, E2EL-X4.-DM1S





#### E2EL-C2MD-M3L



#### E2EL-X2M<sup>--</sup>M3



#### E2EL-X2M --- M3L



## E2EL-X2MD-M1



## E2EL-X2M\_-M1L



## E2EL-X4M -M1



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#### E2EL-X2[]-M1L, E2EL-X4[]-DM1L, E2EL-X4[]-DM1SL



#### E2EL-X5D-M1, E2EL-X8D-DM1, E2EL-X8D-DM1S



#### 



#### E2EL-X100-M1



#### E2EL-X10 -M1L





#### E2EL-X8M ....-M1



#### E2EL-X8MO-M1L



### E2EL-X15MD-M1



#### E2EL-X15M -M1L



# Installation

## Caution



# Correct Use Installation

#### **Power Reset Time**

The Proximity Sensor is ready to operate within 100 ms after power is supplied. If power supplies are connected to the Proximity Sensor and load respectively, be sure to supply power to the Proximity Sensor before supplying power to the load.

#### Power OFF

The Proximity Sensor may output a pulse signal when it is turned off. Therefore, it is recommended to turn off the load before turning off the Proximity Sensor.

#### **Power Supply Transformer**

When using a DC power supply, make sure that the DC power supply has an insulated transformer. Do not use a DC power supply with an auto--transformer.

#### Sensing Object

#### Metal Coating:

The sensing distance of the Proximity Sensor vary with the metal coating on sensing objects.

#### Wiring

High-tension Lines Wiring through Metal Conduit If there a power or high-tension line near the cord of the Proximity Sensor, wire the cord through an independent metal conduit to prevent against Proximity Sensor damage or malfunctioning.

#### **Core Tractive Force**

Do not pull cords with the tractive force exceeding the following: pull force (N) =  $20 \times \text{cable diameter}$  (mm)

#### Mounting

The Proximity Sensor must not be subjected to excessive shock with a hammer when it is installed, otherwise the Proximity Sensor may be damaged or lose the water-resistivity.

#### Environment

#### Water-Resistivity

Do not use the Proximity Sensor underwater, outdoors or in the rain.

#### **Operating Environment**

Be sure to use the Proximity Sensor within operating ambient temperature range and do not use the Proximity Sensor outdoors so that its reliability and life expectancy can be maintained. Although the Proximity Sensor is water resistive, a cover to protect the Proximity Sensor from water or soluble machining oil is recommended so that its reliability and life expectancy can be maintained. Do not use the Proximity Sensor in an environment with chemical gas (e. G., strong alkaline or acid gases).

ltem	Examples	ltem
AND (serial connection)		The Sensors connected together must satisfy the following conditions: $i_L + (N-1) \times i = Upper-limit of control output of each Sensor V_S - N \times V_R = Load operating voltageN = No. of SensorsV_R = Residual voltage of each SensorV_S = Supply voltagei = Current consumption of the Sensori_L = Load currentIf the MY Relay, which operate at 24 VDC, is used as a load for example, a maximum of two Proximity Sensors can be connected to the load.$
OR (parallel connection)		The number of Sensors connected in parallel varies with the Proximity Sensor model.

#### **Effects of Surrounding Metal**

#### Shielded types:

Shielded types allow direct installation on metal plates in an embedded manner without performance change. A minimum distance of  $3s_n$  is required between the active surface and a metallic surface in front of the device. (Fig. 1).

For SUS shielded types the following minimum distances are required to avoid performance change (see Fig.2 and table below):

Shielded SUS Types	Free zone
E2EL-C2-DS	0,5 mm
E2EL-X2 <sup>-DS</sup>	0,5 mm
E2ELX4DDDS	1,0 mm
E2EL-X8D-DDS	2,0 mm



#### Fig.1: Shielded type (except SUS)



Fig.2: Shielded SUS type

#### Non-shielded types:

Installation of non-shielded types in metal require the minimum distances according to Fig. 3.



Fig.3: Non-shielded type

E2EL	OMRON	E2EL

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

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

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