



Product Discontinuation Notices

March 1, 2010

Proximity Sensors

No. 2010053E

Discontinuation Notice of Proximity Sensor Model E2R series

Product Discontinuation		Recommended Replacement		
X	Proximity sensor Model E2R-A01	Proximity sensor Model TL-W5MC1		

Discontinuation date : The end of September, 2011

(Connector cable for E2R-A01)

Caution on recommended replacement

Model E22-01

Accessory

- Differences are type of connection E2R-A01+E22-01:connector and connection code type TL-W5MC1: prewired type
 Mounting dimensions E2R-A01: 20mm ± 0.1mm TL-W5MC1:12mm ± 0.1mm
- 3) Response frequency E2R-A01: 5 kHz min. TL-W5MC1:500Hz min.
 4) Load current
- E2R-A01: 100mA max. (12 to 24VDC) TL-W5MC1: 50mA max. (12 VDC) 100mA max. (24VDC) 5) Additionally, please refer to characteristics.

Difference from discontinued product

Model	Body Color	Dimen sions	Wire connection	Mounting Dimensions	Charact eristics	Operation ratings	Operation methods
TL-W5MC1	*				*	*	-

** : Fully compatible* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

OMRON Corporation Industrial Automation Company

Product Discontinuation and recommended replacement

Product discontinuation	Recommended replacement
E2R-A01	TL-W5MC1 2M
E22-01 (Connector cable for E2R-A01)	-

Dimensions



Wire Connection



Mounting dimensions

Product discontinuation	Recommendable replacement	
 Mounting holes	 Mounting holes	
20±0.1mm Mounting screw	12±0.1mm Mounting screw	
2-M3	2-M3	

Characteristics

Model Item		Product discontinuation E2R-A01	Recommendable replacement TL-W5MC1	
Sensing distance		5mm±15%	5mm±10%	
Set distance		0 to 3.4mm	0 to 4mm	
Differential travel		10% max. of sensing distance		
Standard	sensing	Iron, 18×18×1mm		
object				
	e frequency	5kHz min.	500Hz min.	
Power supply		12VDC -10% to 24VDC +15%	12 to 24VDC (10 to 30VDC),	
voltage (operating		ripple (p-p):10% max.	ripple (p-p):10%max.	
voltage ra	ange)			
Current		8mA max.	10mA max.	
consump				
Control	Load	NPN open collector 100mA max.	NPN open collector 50mA max. at	
output	current		12VDC (30VDC max.)	
			100mA max. at 24VDC (30VDC max.)	
	Residual	1V max.	1V max.	
	voltage	(under load current of 100mA with cable	(under load current of 50mA with cable	
L. P. d.		length of 1m)	length of 2m)	
Indicators		Operating indicator (red)	Detection indicator (red)	
Operatio		N	J	
``	ising object			
approach Protectio			Doverse polarity protection	
Protectio		-	Reverse polarity protection, Surge suppressor	
Ambient		Operating:-10 to 55°C	Operating/Storage:-25 to 70°C	
	ure range	Storage:-25 to 65°C	(with no icing or condensation)	
temperat	are range	(with no icing or condensation)		
Ambient humidity		Operating/strage:35% to 85%	Operating/strage:35% to 95%	
range		(with no condensation)	(with no condensation)	
Temperature		±20% max. of sensing distance at 23°C	±10% max. of sensing distance at 23°C	
influence		in the temperature range of -10 to 55°C	in the temperature range of -25 to 70°C	
Voltage influence		±2.5% max. of sensing distance at rated	±2.5% max. of sensing distance at	
volago initionoo		voltage in the rated voltage $\pm 10\%$ range	rated voltage in the rated voltage ±20%	
		ggg-	range	
Insulation resistance		50M Ω min.(at 500VDC) between current-carrying parts and case		
Dielectric strength		1000VAC, 50/60Hz for 1 minute between current-carrying parts and case		
Vibration resistance		Destruction:10 to 55Hz, 1.5-mm double amplitude for 2 hours each in X,Y and Z directions		
Shock resistance		Destruction:500m/s ² 3 times each in X,Y and Z directions		
Degree of protection		IEC60529 IP50	IEC60529 IP67	
			in-house standards: oil-resistant	
Materials		Case: PBT	Case: Heart-resistant ABS	
		Cover: ABS	Sensing surface: Heat-resistance ABS	