

# OMRON

# **Product Discontinuation**

Notices

October 4, 2010

**Proximity Sensors** 

No. 2010267E

# Discontinuation Notice of Proximity Sensors E2C-WH4A and E2C-WH4AF

Product Discontinuation Proximity Sensors

Recommended Replacement

Proximity Sensors

X

Model E2C-WH4A Model E2C-WH4AF Model E2C-JC4AP

#### Discontinuation date : The end of March, 2012

#### Caution on recommended replacement

In the case of use PNP output of E2C-WH4A, recommended replacement E2C-JC4AP can not be replaced. This case use E2C-AM4A as the replacement.

#### Difference from discontinued product

Model	Body Color	Dimen sions	Wire connection	Mounting Dimensions	Charact eristics	Operation ratings	Operation methods
E2C-JC4AP	*				*	*	*

\*\* : Fully compatible

\* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

#### Product Discontinuation and recommended replacement

Product discontinuation	Recommended replacement		
Model E2C-WH4A	Model E2C-JC4AP		
Model E2C-WH4AF			

Body color	
Product discontinuation	Recommendable replacement
Model E2C-WH4A/WH4AF	Model E2C-JC4AP
Body : Light Gray	Body : Light Gray
Cover : -	Cover : Blue Smoke

#### Dimensions







#### **Mounting dimensions**



# Characteristics

	Product dis	continuation	Recommended replacement
Item Model	Model E2C-WH4A Model E2C-WH4AF		Model E2C-JC4AP
Power supply voltage (Operating voltage range)		VDC), ripple (p-p):10% n	
Current consumption	25mA max.		45mA max.
Sensor combination	Model E2C-CR8A	Model E2C-CR8A	
	Model E2C-CR8B		Model E2C-CR8B
	Model E2C-X1A		Model E2C-X1A
	Model E2C-C1A	Model E2C-C1A	
	Model E2C-X1R5A	Model E2C-X1R5A	
			Model E2C-X2A
Sensing distance adjustment range *1	20% to 100% of rated	sensing distance with 4-1	urn potentiometer.
Differential travel adjustment range	Differential travel fixed (10% max. of sensing dis		stance)
Control output	NPN/PNP output	1)NPN/PNP output	NPN Open-collector output
	Open-collector output	Open-collector	100mA max.
	200mA max.	output 200mA max.	(Residual voltage: 1V max.)
	(Residual voltage	(Residual voltage:	
	: 1.5V max.)	1.5V max.)	
		2)Connector output	
		Transistor photo-	
		coupler 50mA max.	
		(Residual voltage :	
Le Parte e		2V max.)	
Indicators	Detection indicator (red	d) (OPERATION)	Detection indicator (red) (OPERATION)
			Stability indicator (green)
			(SATBILITY)
Operation mode	Change with NO/NC s		
Self-diagnostic output	-		Output transistor turns ON
			when Sensor open circuit or
			unstable sensing is
		detected; solid-state NPN	
		open collector 50mA max.	
			(Residual voltage: 1Vmax.)
Timer function	-	OFF-delay:40±10ms	
Cable length	Switched between 3 ar	nd 5m.	3m/5m, terminals
compensation between			Short-plate switching
Sensor and Amplifier			Shorted: 1to 3m
Unit			Open: 3 to 5m

## Characteristics

	Product discontinuation		Recommended replacement	
Item Model	Model E2C-WH4A	Model E2C-WH4AF	Model E2C-JC4AP	
Ambient temperature	Operating/Storage:-1	0 to 55 °C (with no icir	ng or condensation)	
range				
Ambient humidity range	Operating/Storage: 3	85% to 85%	Operating/Storage: 35% to 95%	
	(with no condensatio	n)	(with no condensation)	
Temperature influence	10% max. of sensing distance at 23°C in the temperature range of -10 to 5			
Voltage influence	±1% max. of sensing distance at rated voltage in the rated voltage ±20% r			
Insulation resistance	50M $\Omega$ min. (at 500VDC) between current-carrying parts and case			
Dielectric strength	1,000VAC, 50/60 Hz for 1 min between current-carrying parts and case			
Vibration resistance	Destruction: 10 to 25	5 Hz, 2-mm double	Destruction: 10 to 55Hz, 1.5-mm	
	amplitude for 2 hours	s each in X,Y, and Z	double amplitude for 2hours each	
	directions		in X,Y, and Z directions	
Shock resistance	Destruction: 100m/s <sup>2</sup> 3 times each in X,Y, and Z directions			
Connection method	Terminal block		Pre-wired Models	
Weight	Approx. 80g		Approx. 80g	
(Packed state)				
Accessories	Instruction manual		Caution labels	
			Mounting Bracket	
			Instruction manual	

\*1. The sensing distance range required to maintain performed is given for using the Amplifier Unit in combination with the Sensor.

## **Operation methods**

	Product dis	continuation	Recommended replacement	
Item Mode	Model E2C-WH4A	Model E2C-WH4AF	Model E2C-JC4AP	
Operation mode	Change with NO/NC	Change with NO/NC switch		
Sensing distance adjustment	4-turn potentiometer			
Timer function	-		Change with switch	
Cable length compensation between Sensor and Amplifier Unit	Switched between 3	and 5m.	3m/5m, terminals Short-plate switching Shorted: 1to 3m Open: 3 to 5m	