

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	Recommended replacement	
ltem Model	Model E2C-WH4A Model E2C-WH4AF		Model E2C-JC4AP
Power supply voltage (Operating voltage range)	12 to 24VDC (10 to 30	VDC), ripple (p-p):10% n	nax.
Current consumption	25mA max.		45mA max.
Sensor combination	Model E2C-CR8A Model E2C-CR8B Model E2C-X1A Model E2C-C1A Model E2C-X1R5A		Model E2C-CR8A Model E2C-CR8B Model E2C-X1A Model E2C-C1A Model E2C-X1R5A Model E2C-X2A
Sensing distance adjustment range *1	20% to 100% of rated s	sensing distance with 4-t	urn potentiometer.
Differential travel adjustment range	Differential travel fixed (10% max. of sensing distance)		
Control output	NPN/PNP output Open-collector output 200mA max. (Residual voltage : 1.5V max.)	 NPN/PNP output Open-collector output 200mA max. (Residual voltage: 1.5V max.) Connector output Transistor photo- coupler 50mA max. (Residual voltage : 2V max.) 	NPN Open-collector output 100mA max. (Residual voltage: 1V max.)
Indicators	Detection indicator (red) (OPERATION)		Detection indicator (red) (OPERATION) Stability indicator (green) (SATBILITY)
Operation mode	Change with NO/NC sv		
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 compensation between Sensor and Amplifier Unit	Switched between 3 and 5m.		3m/5m, terminals Short-plate switching Shorted: 1to 3m Open: 3 to 5m

Characteristics

	Product discontinuation	Recommended replacement		
Item Model	Model E2C-WH4A Model E2C-WH4AF	Model E2C-JC4AP		
Ambient temperature	Operating/Storage:-10 to 55 °C (with no icing or condensation)			
range				
Ambient humidity range	Operating/Storage: 35% to 85%	Operating/Storage: 35% to 95%		
	(with no condensation)	(with no condensation)		
Temperature influence	10% max. of sensing distance at 23°C in the temperature range of -10			
Voltage influence	±1% max. of sensing distance at rated voltage in the rated voltage ±20			
Insulation resistance	50M Ω 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 Hz, 2-mm double	Destruction: 10 to 55Hz, 1.5-mm		
	amplitude for 2 hours each in X,Y, and Z	double amplitude for 2hours each		
	directions	in X,Y, and Z directions		
Shock resistance	Destruction: 100m/s ² 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 discontinuation		Recommended replacement	
Item Model	Model E2C-WH4A	Model E2C-WH4AF	Model E2C-JC4AP	
Operation mode	Change with NO/NC switch			
Sensing distance	4-turn potentiometer			
adjustment				
Timer function	-		Change with switch	
Cable length	Switched between 3	and 5m.	3m/5m, terminals	
compensation			Short-plate switching	
between Sensor and			Shorted: 1to 3m	
Amplifier Unit			Open: 3 to 5m	