

Product Discontinuation Notices

Photoelectric Sensors

April 1, 2009

No.2009124E

Discontinuation Notice of photoelectric Sensor

Product Discontinuation



E3C-WE4
E3C-WH4F



Recommended Replacement

E3C-JC4P

Discontinuation date : The end of March, 2010

Caution on recommended replacement

When changing from E3C-WE4

1) The kind of the control output is changed.

From NPN transistor (With collector load) to NPN transistor (Open collector)

When changing from E3C-WH4F

1) The load power-supply voltage is changed.

From 40 VDC max. to 24 VDC max.

2) When the PNP control output is used, it is not possible to substitute it with E3C-JC4P

Difference from discontinued product

Model	Body Color	Dimensions	Wire connection	Mounting Dimensions	Characteristics	Operation ratings	Operation methods
E3C-JC4P	*	--	*	--	*	**	*

** : Fully compatible

* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

Product Discontinuation and recommended replacement

Product discontinuation		Recommended replacement	
Model	Product code	Model	Product code
E3C-WE4 DC12-24	E3CW1002A	E3C-JC4P 2M	E3CJ1003G
E3C-WH4F DC12-24	E3CW1001C		

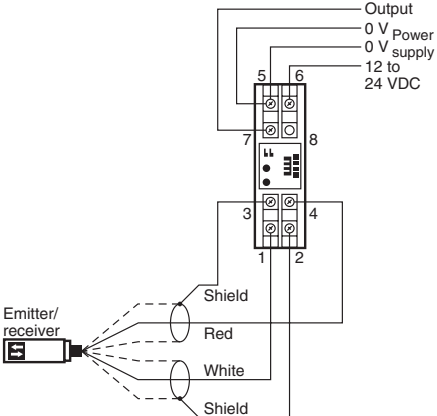
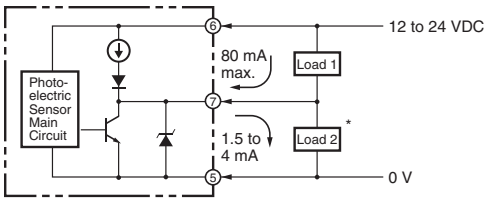
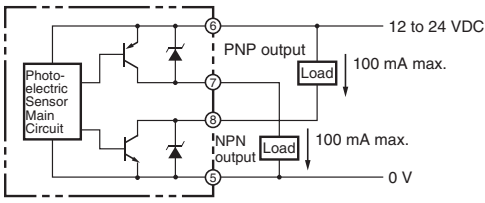
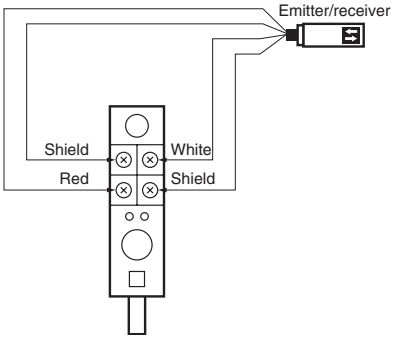
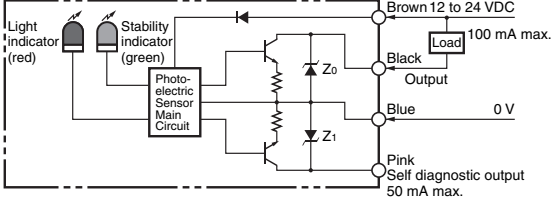
Body color

Product discontinuation E3C-WE4 / WH4F	Recommended replacement E3C-JC4P
Case : Light gray Cover : None	Light gray Blue with smoke

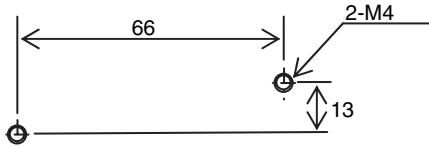
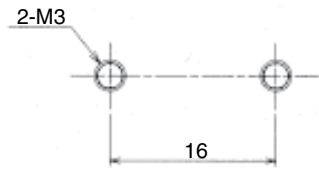
Dimensions

Product discontinuation E3C-WE4 / WH4F	Recommended replacement E3C-JC4P
<p>Technical drawing of E3C-WE4 / WH4F sensor showing front, side, and top views with dimensions. Dimensions include 75mm width, 50mm height, 80mm base width, and 12.5mm mounting hole offset. Labels include "E3C-WH4F only", "Two, M4 mounting holes", and "Track mounting surface".</p>	<p>Technical drawing of E3C-JC4P sensor showing front and side views with dimensions. Dimensions include 50mm width, 30mm height, and 60mm base width. Labels include "Light indicator", "Stability indicator", "M2.6", "Timer mode selector switch", "Operation mode selector switch", "Sensitivity adjuster", "Caution label (accessory) (see note 1)", "2 m standard", "Two, 3.3 dia.", and "Mounting bracket (see note 2)".</p> <p>Note : 1. Attach the caution label after adjusting the sensitivity adjuster. 2. This is not necessary when mounting the photoelectric sensor on a track.</p>

Wire Connection

Product discontinuation E3C-WE4 / WH4F	Recommended replacement E3C-JC4P
<p>E3C-WE4 / WH4F</p>  <p>E3C-WE4</p>  <p>* Voltage output (When connecting a transistor circuit, etc.)</p> <p>E3C-WH4F</p> 	 

Mounting dimensions

Product discontinuation E3C-WE4 / WH4F	Recommended replacement E3C-JC4P
<p>1) Din track mounting 2) Screw mounting</p> 	<p>1) Din track mounting 2) Screw mounting</p> 

Characteristic

Item	Model	Product discontinuation		Recommended replacement
		E3C-WE4	E3C-WH4F	E3C-JC4P
Power supply voltage	12 to 24 VDC±10 %, ripple (p-p) : 1 V max.			
Current consumption	50 mA max.			
Control output	Load power supply voltage : 24 VDC max., load current : 80 mA max., voltage out-put type, output current : 1 to 4 mA (residual voltage : 0.7 V max.) Light-ON / Dark-ON switch selectable	Load power supply voltage : 40 VDC max., load current : 100 mA max., NPN / PNP open collector output type (simultaneously usable) (residual voltage : 0.7 V max.) Light-ON / Dark-ON switch selectable		Load power supply voltage : 24 VDC max., load current : 100 mA max., NPN open collector output type (residual voltage : 1 V max.) Light-ON / Dark-ON switch selectable
Ambient temperature	Operating : -10° to 55 °C, Storage : -25° to 70 °C (with no icing or condensation)			
Ambient humidity	Operating : 35 % to 85 %, Storage : 35 % to 95 % (with no condensation)			
Vibration resistance	Destruction : 10 to 55 Hz, 1.5 mm double amplitude for 2 hours each in X, Y, and Z directions			
Shock resistance	Destruction : 300 ms ² three times in each of X, Y and Z directions			
Degree of protection	IEC IP20 (limited to indoor use)		IEC IP60 (limited to indoor use)	
Protection	Reverse polarity protection, output short-circuit protection, mutual interference prevention			
Response time	Operate or reset : 1 ms max. / 2 ms max. each (switch selectable)		Operate or reset : 1 ms max.	
Connection method	Terminal block		Terminal block input cable pullout (standard cable length : 2 m)	
Material (Case)	Polycarbonate		ABS	
Accessories	Instruction manual	Terminal Pin (E99-C) Instruction manual	Mounting Bracket, Adjustment screw-driver, Caution label, Instruction manual	

Operation ratings

Product discontinuation E3C-WE4 / WH4F	Recommended replacement E3C-JC4P
The acceptable sensor of the product discontinuation and recommended replacement are the same. The operation rating of these sensors is also the same.	

Operation methods

Item	Model	Product discontinuation		Recommended replacement
		E3C-WE4	E3C-WH4F	E3C-JC4P
Control output NPN / PNP select		Switch none	Switch selectable	Switch none
Operational mode switch		Switch selectable		
Sensitivity adjustment		Rotary volume		