



Product Discontinuation

Notices

June 1, 2009

Photomicro Sensors

No.2009190E

Photomicro Sensors EE-SY125/EE-SY125-1 Product Discontinuation Announcement

Product Discontinuation Photomicro Sensors **Recommended Replacement**

Photomicro Sensors

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Model EE-SY125 Model EE-SY125-1 Model EE-SY199 (EE-SX199 will be released at Dec.2009)

Discontinuation date : The end of March, 2010

Caution on recommended replacement

Could you please confirm Dimension and Specifications of the EE-SY125 and recommended type before your new designing. Since the EE-SY125 and recommended type are not complete same size and Spec. And the EE-SY199 will be released at Dec.2009 but when you need this sensor samples for new designing, could you please contact with our sales staff.

Difference from discontinued product

Model	Body Color	Dimen sions	Wire connection	Mounting Dimensions	Charact eristics	Operation ratings	Operation methods
EE-SY199	**				*	*	*

** : Fully compatible

: The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

Product Discontinuation and recommended replacement

Product discontinuation	Recommended replacement			
EE-SY125	EE-SY199			
EE-SY125-1	(EE-SY199 will be released at Dec.2010)			

OMRON Corporation Industrial Automation Company

Dimensions



Terminal dimension



Packaging and Minimum order Qty.

	EE-SY125	EE-SY125-1	EE-SY199 (this sensor will be released at Dec.2009)
Packaging	50pcs.in each stick and 40 sticks per 1 Aluminum damp proofing packing	1000pcs. per 1 reel and Aluminum damp proofing packing	2000pcs. per 1 reel and Aluminum damp proofing packing
Minimum order Qty.	2000pcs.	1000pcs.	2000pcs.

Absolute Maximum Ratings (Ta=25°C)

Item	Model to be discontinued EE-SY125/EE-SY125-1	Recommended replacement EE-SY199 (this sensor will be released at Dec.2009)		
Forward current	50mA	50mA		
Reverse voltage	$4\mathrm{V}$	6V		
Collector-Emitter voltage	30V	35V		
Emitter-Collector voltage	$5\mathrm{V}$	6V		
Collector current	20mA	20mA		
Collector dissipation	75mW	75mW		
Operating temperature	-25 to +85°C	-25 to +85°C		
Storage temperature	-40 to +100°C	-40 to +100°C		
Soldering temperature	260°C max. less than 3 sec. 240°C max. less than 10 sec.	260°C max. less than 5 sec. 240°C max. less than 10 sec.		

Characteristics (Ta=25°C)

	Model to be discontinued EE-SY125/EE-SY125-1			Recommended replacement EE-SY199 (this sensor will be released at Dec.2009)		
Item	Value			Value		
	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.
Forward voltage	-	$1.2\mathrm{V}$	$1.4\mathrm{V}$	-	1.2V	1.4V
	Condition : IF=20mA			Condition : IF=20mA		
	-	0.01µA	10µA	-	-	10µA
Reverse current	Condition : VR=4V			Condition : VR=6V		
Peak emission	-	950nm	-	-	950nm	-
wavelength	Condition : IF=4mA			Condition : IF=4mA		
-	50μΑ	-	300µA	40µA	85μΑ	130µA
	Condition : I	F=4mA,VCE=2	2V	Condition : IF=4mA,VCE=2V		
Light current	Sensing object: Aluminum-deposited			Sensing object: Aluminum-deposited		
	surface			surface		
	Sensing distance:1mm			Sensing distance:1mm		
Dark current	-	2nA	200nA	-	1nA	100nA
Dark current	Condition : VCE=10V, 0lx			Condition : VCE=20V, 0lx		
Collector-Emitter	-	-	-	-	-	-
saturated voltage	-			-		
Rising time tr	-	$35 \mu s$	-	-	20µs	100µs
	Condition : V	CC=2V,RL=1	Ω,IF=100μA	Condition : V	CC=2V,RL=11	xΩ,IF=100µA
Falling time tf	-	$25 \mu s$	-	-	20µs	100µs
	Condition : V	CC=2V,RL=1	xΩ,IF=100µA	Condition : V	CC=2V,RL=11	αΩ,IF=100μA