

OMRON ELECTRONIC COMPONENTS LLC ENGINEERINGUPDATE



NO: PMS - 022 PRODUCT: EE-SY193 – Photomicrosensor (Reflective)

DATE: September 2020 TYPE: DISCONTINUATION – Streamline Product Offering

EE-SY193 Photomicrosensor (Reflective) – DISCONTINUATION

In an effort to streamline our product offering and focus on popular models of Omron's line of Photomicrosensors, OMRON will discontinue the EE-SY193 Photomicrosensor model in February 2021. Although there are no direct drop-in replacements, Omron suggests consideration of our EE-SY199 or EE-SY1200 Photomicrosensor models for use in new designs. Despite differences in characteristics and dimensions, these sensors can be considered to be a functional equivalents. Please carefully read through this notification and note the differences. The following details will fully explain the discontinuation and replacement considerations; should you have any additional questions, however, please communicate with the Sensor Product Manager, Cary Horan.

LAST Order date (Last Time Buy Date)

February 26, 2021

Product Discontinuation

Photomicrosensor (Reflective)

Model EE-SY193



Suggested Replacement for <u>new</u> designs

Photomicrosensor (Reflective)

Model EE-SY199
Model EE-SY1200

Differences from discontinued product:

Please Note: Dimensions and electrical characteristics have slight differences. However, operation methods are fully compatible.

Suggested replacement Model	Body Color	Dimen -sions	Wire connection	Mounting Dimensions	Charact -eristics	Operation ratings	Operation methods
EE-SY199	**	*	*	*	*	-	-
EE-SY1200	**	*	*	*	*	-	-

** : Compatible

* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

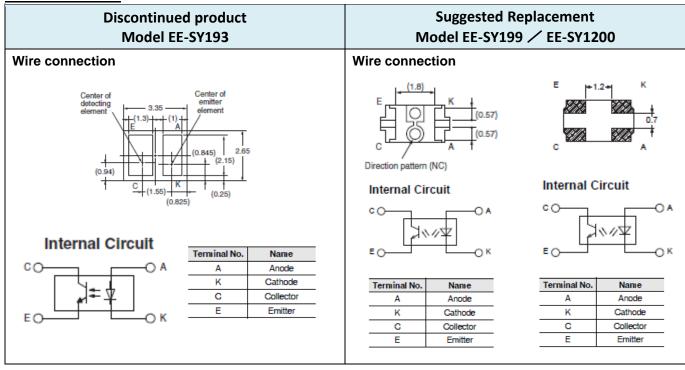
Discontinued Model and Suggested Replacements:

Discontinued Product		Suggested Replacement for new designs		
Models	Product code	Models	Product code	
EE-SY193	EESY1246H	EE-SY199	EESY1278F	
EE-31193	LL311240H	EE-SY1200	EESY1283B	

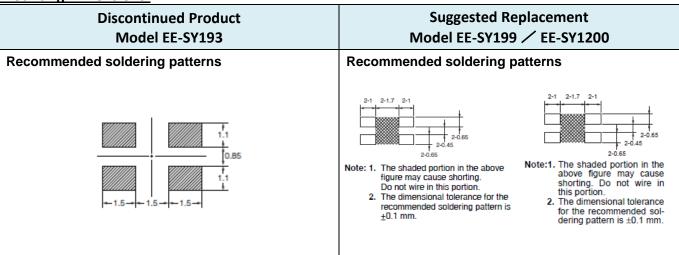
Body Color:

Discontinued Product Model EE-SY193	Suggested Replacement Model EE-SY199 ∕ EE-SY1200		
Black	Black Model EE-SY199 Model EE-SY1200		

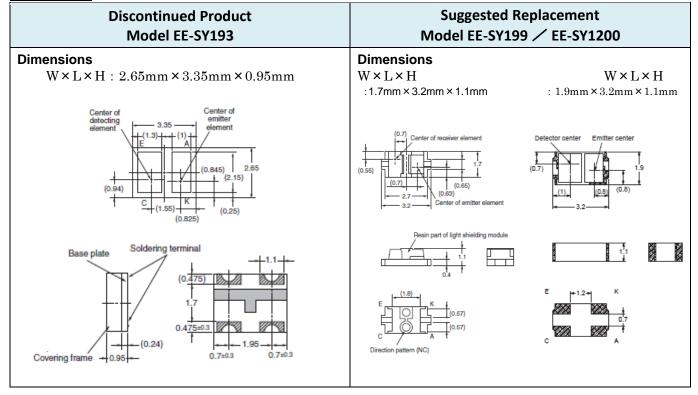
Wire Connection:



Mounting Dimensions:



Dimensions:



Characteristics:

Item	Discontinued Product Model EE-SY193	Suggested Replacement Model EE-SY199 ∕ EE-SY1200			
Emitter Forward current	Maximum Ratings 25 mA	Maximum Ratings 50 mA			
Emitter Reverse voltage	Maximum Ratings 6 V		Maximum Ratings 4 V		
Detector Collector-Emitter	Maximum Ratings 18 V	Maximum Ratings 35 V	Maximum Ratings 30 V		
Detector Collector current	Maximum Ratings 20 mA				
Detector Collector dissipation	Maximum Ratings 75 mW	Maximum Ratings 50 mW			
Operating temperature	-30°C ~ 80°C	-25°C ~ 85°C			
Storage temperature	-40°C ~ 85°C	-40°C ~ 100°C			
Emitter Forward voltage	TYP:1.1 V MAX:1.3 V (Conditions IF=4mA)	TYP:1.2 V MAX:1.4 V (Conditions IF=20mA)	AX:1.4 V		
Emitter Peak emission wavelength	TYP: 940nm (Conditions IF=20mA)	TYP: 950nm	TYP: 940nm		
Detector Light current	MIN: 100 uA TYP: 150 uA MAX: 360 uA (Conditions IF=4mA, VcE=2V)	MIN: 40 uA TYP: 85 uA MAX: 130 uA (Conditions IF=4mA, Vce=2V)	MIN: 200 uA MAX: 1000 uA (Conditions IF=10mA、Vce=2V)		
Detector Dark current	MAX: 100 nA (Vce=10V, 0 lx)	MAX: 100 nA (Vce=20V, 0 lx)	MAX: 200 nA (Vce=10V, 0 lx)		
Detector Leakage current	MAX: 1 uA (Conditions IF=4mA、VcE=2V)	MAX: 500 nA (Conditions IF=4mA、VcE=2V)	MAX: 500 nA (Conditions IF=10mA、VcE=2V)		
Detector Peak spectral sensitivity wavelength	TYP:900 nm	TYP:930 nm	TYP:850 nm		

Specifications in this product news are as of the issue date and are subject to change without notice.

Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.

This PCN is intended for use in the Americas

Last time buy dates are subject to change based on availability

^{*} Sales teams should communicate this discontinuation with their OEM's and CEM's. For further technical support and any questions, please communicate with Product Marketing.