

**Notice of change in LED element and outer plating
due to improvement of parts procurement**

[Target Products]

- Photomicrosensor EE-SY110 series
 - Photomicrosensor EE-SY169A series
 - Photomicrosensor EE-SX461-P11 series
- < Refer to the " [Details of applicable model] " . >

[Effective Date]

Effective as of our production in July, 2025.



[Reason for change]

To improve or to change our production system



[Changes]

EE-SY110

Before the change	After the change
<p>The LED element will be changed.</p> <p>The outer plating of the light emitting/receiving terminals will be changed.</p> <p>Ag plating (Silver plating)</p>  <p>Figure. Ag-plated terminals' color</p>	<p>There are no changes in absolute maximum ratings / electrical and optical characteristics because of this change.</p> <p>Sn plating (Tin plating)</p>  <p>Figure. Sn-plated terminals' color</p> <p>No changes in soldering temperature and dimensions.</p>

EE-SY169A

Before the change							After the change						
<p>The LED element will be changed. Absolute maximum ratings</p> <p>Electrical and Optical Characteristics (Emitter)</p>							<p>There are no changes in absolute maximum ratings because of this change.</p> <p>Electrical and Optical Characteristics (Emitter)</p>						
Item	Symbol	MIN	TYP	MAX	Unit	Conditions	Item	Symbol	MIN	TYP	MAX	Unit	Conditions
Forward voltage	VF	—	—	1.5	V	IF=30mA	Forward voltage	VF	—	—	1.5	V	IF=30mA
Reverse current	IR	—	—	10	μA	VR=4V	Reverse current	IR	—	—	10	μA	VR=4V
Peak emission wavelength	λ _p	—	920	—	nm	IF=20mA	Peak emission wavelength	λ _p	—	920	—	nm	IF=20mA
<p>Electrical and Optical Characteristics (Detector)</p>							<p>Peak emission wavelength changes from 920nm to 940nm because of this change.</p> <p>Electrical and Optical Characteristics (Detector)</p>						
Item	Symbol	MIN	TYP	MAX	Unit	Conditions	Item	Symbol	MIN	TYP	MAX	Unit	Conditions
Light current	IL	160	—	2000	μA	IF=20mA, Vce=5V, Reflectance 90% white paper, d=4mm	Light current	IL	160	—	2000	μA	IF=20mA, Vce=5V, Reflectance 90% white paper, d=4mm
<p>Electrical and Optical Characteristics (Detector)</p>							<p>The minimum and maximum values of IL remain unchanged. The typical value of the light current IL value will increase because of this change.</p>						

EE-SX461-P11

Before the change		After the change	
<p>The LED element will be changed.</p>		<p>There are no changes in absolute maximum ratings / electrical and optical characteristics because of this change.</p>	

[Details of applicable model]

Models / Specification
EE-SY110
EE-SY169A
EE-SX461-P11

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.