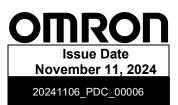


# **Modifications Notices**



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



#### EE-SY169A

|  |         | Bef            | ore th | e cha | nge  |   |                           | After the change     |         |                                      |        |        |         |   |                       |  |
|--|---------|----------------|--------|-------|------|---|---------------------------|----------------------|---------|--------------------------------------|--------|--------|---------|---|-----------------------|--|
| The LED element will be changed.<br>Absolute maximum ratings |         |                |        |       |      | There are no changes in absolute maximum ratings because of this change.              |                           |                      |         |                                      |        |        |         |   |                       |  |
| Electrical and Optical Characteristics (Emitter)             |         |                |        |       |      | Electrical and Optical Characteristics (Emitter)                                      |                           |                      |         |                                      |        |        |         |   |                       |  |
| Item   |         | Symbol         | MIN    | TYP   | MAX  | Unit  | Conditions                | Item                 |         | Symbol                               | MIN    | TYP    | MAX     | Unit  | Conditions            |  |
| Forward  | /oltage | VF             | _      | _     | 1.5  | V   | IF=30mA                   | Forward voltage      |         | VF                                   | —      | —      | 1.5     | V   | IF=30mA               |  |
| Reverse  | current | IR             |        | _     | 10   | uA  | VR=4V                     | Reverse current      |         | IR                                   | -      | _      | 10      | uA  | VR=4V                 |  |
| Peak emi<br>waveleng   |         | λ <sub>P</sub> | _      | 920   | —    | nm  | IF=20mA                   | Peak emi<br>waveleng |         | $\lambda_P$                          | _      | 920    | —       | nm  | nm <sup>IF=20mA</sup> |  |
| Electrical and Optical Characteristics (Detector)            |         |                |        |       |      | to 940nm because of this change.<br>Electrical and Optical Characteristics (Detector) |                           |                      |         |                                      |        |        |         |   |                       |  |
| ltem   | Symbol  | MIN            | TYP    | MAX   | Unit | Conditi   |                           | Item                 | Symbol  | MIN                                  | TYP    | MAX    | Unit    | Conditi   |                       |  |
| Light<br>current   | IL      | 160            |        | 2000  | uA   | IF = 20<br>Vce=5<br>Reflect<br>white<br>d=4m  | V,<br>tance 90%<br>paper, | Light<br>current     | IL      | 160                                  | _      | 2000   | uA      | IF = 20mA,<br>Vce=5V,<br>Reflectance 90%<br>white paper,<br>d=4mm |                       |  |
|  |         |                |        |       |      |   |                           | re<br>lig            | emain v | imum a<br>unchan<br>rrent IL<br>nge. | ged. T | he typ | ical va | lue of  | the                   |  |

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

## [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.