

|                         |   |
|-------------------------|---|
| <b>NO:</b> PMS - 018    | <b>PRODUCT:</b> EE-SX4134 – Photomicrosensor (Transmissive) |
| <b>DATE:</b> March 2017 | <b>TYPE:</b> DISCONTINUATION – Streamline Product Offering  |

## EE-SX4134 Photomicrosensor – DISCONTINUATION Replaced By New Product Model



In an effort to streamline our product offering and with the release of new SMT model series, OMRON will discontinue both EE-SX4134 (-1) Photomicrosensor models in February 2018. The suggested replacement will be our EE-SX4320 Photomicrosensor model and it became available December 2016. Despite slight differences, the EE-SX4320 Photomicrosensor can be considered to be a functional equivalent. 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 Photomicrosensor Product Specialist.

**LAST Order date (Last Time Buy Date)**

**February 28, 2018**

**All orders entered by the LTB date will be shipped by the factory by the end of:**

**June, 2018**

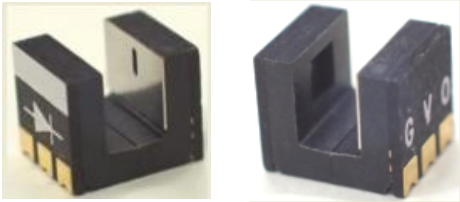

|   |  |   |  |
|---|--|---|--|
|  | <p><b>Product Discontinuation</b></p> <p>Photomicrosensor (Transmissive)</p> <p><b>Model EE-SX4134</b></p> <p><b>Model EE-SX4134-1</b></p> |  | <p><b>Suggested Replacement</b></p> <p>Photomicrosensor (Transmissive)</p> <p><b>Model EE-SX4320</b></p> <p><b>Model EE-SX4320</b></p> |
|---|--|---|--|

**Differences from discontinued product:**

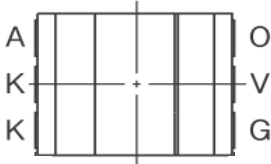
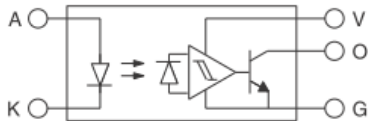
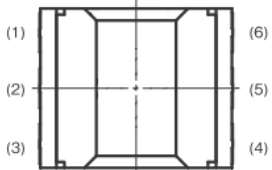
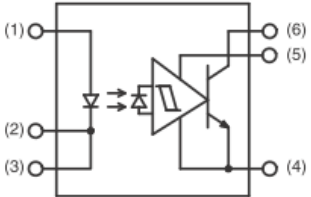
| Suggested Replacement Model | Body Color | Dimen -sions | Wire connection | Mounting Dimensions | Charact -eristics | Operation ratings | Operation methods |
|-----------------------------|------------|--------------|-----------------|---------------------|-------------------|-------------------|-------------------|
| EE-SX4320                   | **         | *            | **              | *                   | *                 | *                 | **                |

- \*\* : Compatible
- \* : The change is little/Almost compatible
- : Not compatible
- : No corresponding specification

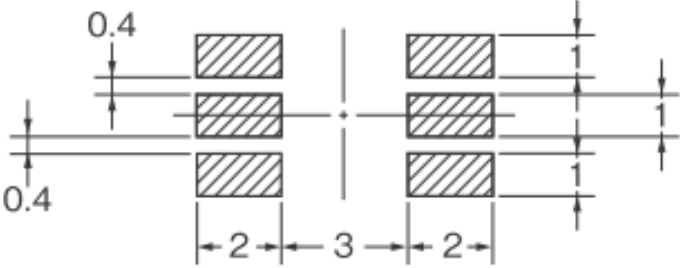
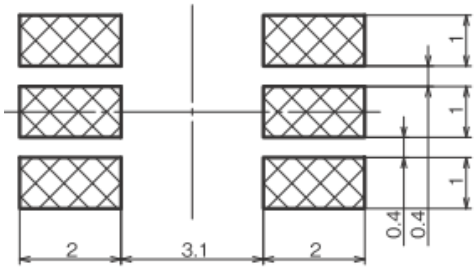
**Body Color:**

| Discontinued Model<br>EE-SX4134 (-1)   | Suggested Replacement Model<br>EE-SX4320  |
|--|---|
| Black<br> | Black<br> |

**Wire Connection:**

| Discontinued Model<br>EE-SX4134 (-1)  | Suggested Replacement Model<br>EE-SX4320 |      |   |       |   |         |   |                      |   |              |   |              |  |              |      |     |       |        |         |     |        |     |                      |     |        |
|---|--|------|---|-------|---|---------|---|----------------------|---|--------------|---|--------------|--|--------------|------|-----|-------|--------|---------|-----|--------|-----|----------------------|-----|--------|
| <p><b>Wire connection</b></p> <p>(Top View)</p>   <table border="1" data-bbox="267 1108 669 1388"> <thead> <tr> <th>Terminal No.</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Anode</td> </tr> <tr> <td>K</td> <td>Cathode</td> </tr> <tr> <td>V</td> <td>Supply voltage (Vcc)</td> </tr> <tr> <td>O</td> <td>Output (OUT)</td> </tr> <tr> <td>G</td> <td>Ground (GND)</td> </tr> </tbody> </table> | Terminal No.                             | Name | A | Anode | K | Cathode | V | Supply voltage (Vcc) | O | Output (OUT) | G | Ground (GND) | <p><b>Wire connection</b></p> <p>(Top View)</p>   <table border="1" data-bbox="1003 1150 1365 1417"> <thead> <tr> <th>Terminal No.</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>Anode</td> </tr> <tr> <td>(2)(3)</td> <td>Cathode</td> </tr> <tr> <td>(4)</td> <td>ground</td> </tr> <tr> <td>(5)</td> <td>Power supply voltage</td> </tr> <tr> <td>(6)</td> <td>Output</td> </tr> </tbody> </table> | Terminal No. | Name | (1) | Anode | (2)(3) | Cathode | (4) | ground | (5) | Power supply voltage | (6) | Output |
| Terminal No.  | Name                                     |      |   |       |   |         |   |                      |   |              |   |              |  |              |      |     |       |        |         |     |        |     |                      |     |        |
| A   | Anode                                    |      |   |       |   |         |   |                      |   |              |   |              |  |              |      |     |       |        |         |     |        |     |                      |     |        |
| K   | Cathode                                  |      |   |       |   |         |   |                      |   |              |   |              |  |              |      |     |       |        |         |     |        |     |                      |     |        |
| V   | Supply voltage (Vcc)                     |      |   |       |   |         |   |                      |   |              |   |              |  |              |      |     |       |        |         |     |        |     |                      |     |        |
| O   | Output (OUT)                             |      |   |       |   |         |   |                      |   |              |   |              |  |              |      |     |       |        |         |     |        |     |                      |     |        |
| G   | Ground (GND)                             |      |   |       |   |         |   |                      |   |              |   |              |  |              |      |     |       |        |         |     |        |     |                      |     |        |
| Terminal No.  | Name                                     |      |   |       |   |         |   |                      |   |              |   |              |  |              |      |     |       |        |         |     |        |     |                      |     |        |
| (1)   | Anode                                    |      |   |       |   |         |   |                      |   |              |   |              |  |              |      |     |       |        |         |     |        |     |                      |     |        |
| (2)(3)  | Cathode                                  |      |   |       |   |         |   |                      |   |              |   |              |  |              |      |     |       |        |         |     |        |     |                      |     |        |
| (4)   | ground                                   |      |   |       |   |         |   |                      |   |              |   |              |  |              |      |     |       |        |         |     |        |     |                      |     |        |
| (5)   | Power supply voltage                     |      |   |       |   |         |   |                      |   |              |   |              |  |              |      |     |       |        |         |     |        |     |                      |     |        |
| (6)   | Output                                   |      |   |       |   |         |   |                      |   |              |   |              |  |              |      |     |       |        |         |     |        |     |                      |     |        |

**Mounting Dimensions:**

| Discontinued Model<br>EE-SX4134 (-1)  | Suggested Replacement Model<br>EE-SX4320   |
|---|--|
| <p><b>Mounting dimensions</b></p>  | <p><b>Mounting dimensions</b></p>  |



**Operation Ratings:**

| Discontinued Model<br>EE-SX4134 (-1)   | Suggested Replacement Model<br>EE-SX4320   |
|--|--|
| <p><b>Response Delay Time vs. Forward Current(Typical)</b></p> <p>Response delay time <math>t_{PHL}</math>, <math>t_{PLH}</math> (<math>\mu</math>s)</p> <p>Forward current <math>I_F</math> (mA)</p> <p>Test conditions:<br/> <math>T_a = 25^\circ\text{C}</math><br/> <math>V_{CC} = 5\text{ V}</math><br/> <math>R_L = 4.7\text{ k}\Omega</math></p>                | <p><b>Response Delay Time vs. Forward Current(Typical)</b></p> <p>Response delay time <math>t_{PHL}</math>, <math>t_{PLH}</math> (<math>\mu</math>s)</p> <p>Forward current <math>I_F</math> (mA)</p> <p>Test conditions:<br/> <math>V_{CC} = 5\text{ V}</math><br/> <math>R_L = 4.7\text{ k}\Omega</math><br/> <math>T_a = 25^\circ\text{C}</math></p>                |
| <p><b>Repeat Sensing Position Characteristics(Typical)</b></p> <p>Output transistor</p> <p>Distance <math>d</math> (mm)</p> <p>Test conditions:<br/> <math>T_a = 25^\circ\text{C}</math><br/> <math>I_F = 5\text{ mA}</math><br/> <math>V_{CC} = 5\text{ V}</math><br/> <math>R_L = 4.7\text{ k}\Omega</math><br/> <math>n = \text{repeat } 20\text{ times}</math></p> | <p><b>Repeat Sensing Position Characteristics(Typical)</b></p> <p>Output transistor</p> <p>Distance <math>d</math> (mm)</p> <p>Test conditions:<br/> <math>T_a = 25^\circ\text{C}</math><br/> <math>I_F = 5\text{ mA}</math><br/> <math>V_{CC} = 5\text{ V}</math><br/> <math>R_L = 4.7\text{ k}\Omega</math><br/> <math>n = \text{repeat } 20\text{ times}</math></p> |

**Characteristics:**

| Item                                    | Discontinued Model<br>EE-SX4134 (-1)   | Suggested Replacement<br>Model EE-SX4320   |
|---|--|--|
| Emitter Forward current                 | Maximum Ratings 25mA   |  |
| Emitter Reverse voltage                 | Maximum Ratings 5V   |  |
| Detector Supply voltage                 | Maximum Ratings 9V   |  |
| Detector Output voltage                 | Maximum Ratings 17V  |  |
| Detector Output current                 | Maximum Ratings 8mA  |  |
| Detector Permissible output dissipation | Maximum Ratings 80mW   |  |
| Power supply voltage                    | Min. : 2.2V<br>Max. : 7V   |  |
| Current consumption                     | Max. : 4mA<br>(Condition: VCC=7V)  |  |
| LED current when output is ON           | Max. : 3.5mA<br>(Condition: VCC=2.2 to 7V)   |  |
| Response frequency                      | Min. : 3kHz<br>(Condition: VCC=2.2 to 7V, IF=5mA, IOL=8mA)   |  |
| Response delay time                     | Rising delay time : Typ. : 7μs<br>Fall delay time : Typ. : 18μs<br>(Condition: VCC=2.2 to 7V, IF=5mA, IOL=8mA) | Rising delay time : Typ. : 8μs<br>Fall delay time : Typ. : 20μs<br>(Condition: VCC=2.2 to 7V, IF=5mA, IOL=8mA) |

**Packing Quantity:**

| Discontinued Model<br>EE-SX4134   | Suggested Replacement Model<br>EE-SX4320 |
|-----------------------------------|--|
| 2,000 pcs / reel                  |  |
| Discontinued Model<br>EE-SX4134-1 | Suggested Replacement Model<br>EE-SX4320 |
| 100 pcs / bag                     | None                                     |

**Details of Applicable Models:**

| EE-SX Discontinued Model | EE-SX Suggested Replacement Model |
|--------------------------|-----------------------------------|
| EE-SX4134                | EE-SX4320                         |
| EE-SX4134-1              | EE-SX4320                         |

\* 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.

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.

Last time buy dates are subject to change based on availability