

NO: PMS - 030	PRODUCT: Multiple – Photomicrosensors
DATE: March 2022	TYPE: DISCONTINUATION – Streamline Product Offering

Multiple Photomicrosensors - DISCONTINUATION

In an effort to streamline our product offering and focus on popular models of Omron’s line of Photomicrosensors, OMRON will discontinue multiple Photomicrosensor models due to reduced global sales and aged tooling that will not be maintained in the future. The suggested replacements are listed below. Please carefully read through this notification and note the differences. The following details will fully explain the discontinuation and suggested 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 28, 2023

Product Discontinuation	➔	Suggested Replacement
Model EE-SX3148-P1		Model EE-SX3162-P2 or Model EE-SX3173-P2
Model EE-SX305		Model EE-SX398
Model EE-SX405		Model EE-SX498
Model EE-SA102		No suggested replacement
Model EE-SY113		Model EE-SY110
Model EE-SB5		Model EE-SF5
Model EE-SX129		Model EE-SV3-D

Differences from discontinued product:









Suggested Replacement Model	Body Color	Dimen-sions	Wire connection	Mounting Dimensions	Charac-teristics	Operation ratings	Operation methods
EE-SX3162-P2	**	*	--	--	*	-	-
EE-SX3173-P2	**	*	--	*	*	-	-
EE-SX398	**	*	**	*	*	-	-
EE-SX498	**	*	**	*	*	-	-
EE-SY110	**	*	**	**	*	-	-
EE-SF5	**	*	--	**	**	-	-
EE-SV3-D	**	*	--	*	*	-	-





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

Discontinued Models and Suggested replacement:

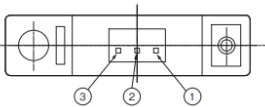
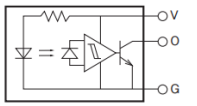
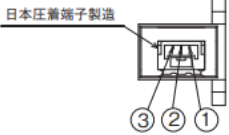
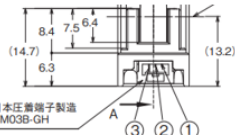
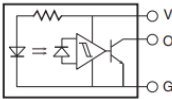
Discontinued Model	Suggested replacement
EE-SX3148-P1	EE-SX3162-P2
	EE-SX3173-P2
EE-SX305	EE-SX398
EE-SX405	EE-SX498
EE-SA102	No recommended replacement
EE-SY113	EE-SY110
EE-SB5	EE-SF5
EE-SX129	EE-SV3-D

Body Color:

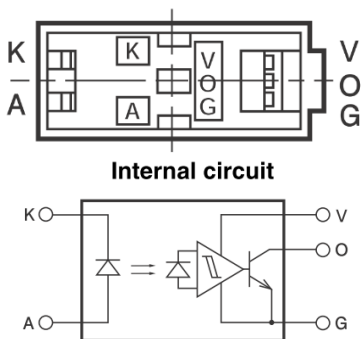
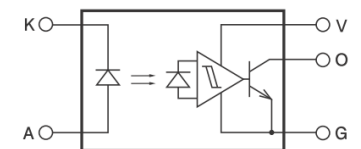
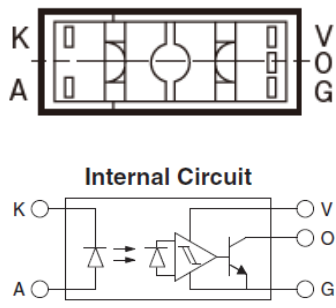
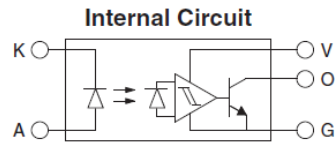
Discontinued Model EE-SX3148-P1	Suggested replacement Model EE-SX3162-P2 / Model EE-SX3173-P2
<p>Black</p> 	<p>Black</p> <p>Model EE-SX3162-P2 Model EE-SX3173-P2</p>  
Discontinued Model EE-SX305 / EE-SX405	Suggested replacement Model EE-SX398 / Model EE-SX498
<p>Black</p> 	<p>Black</p> 
Discontinued Model EE-SA102	Suggested replacement
<p>Black</p> 	<p>No Suggested Replacement</p>
Discontinued Model EE-SY113	Suggested replacement Model EE-SY110
<p>Black</p> 	<p>Black</p> 

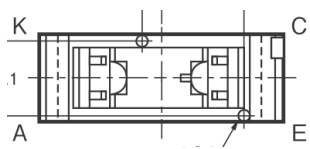
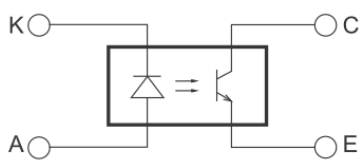
Discontinued Model EE-SB5	Suggested replacement Model EE-SF5
Black 	Black 
Discontinued Model EE-SX129	Suggested replacement Model EE-SV3
Black 	Black 

Wire connection:

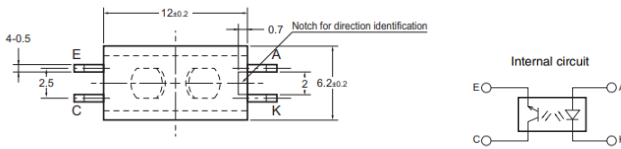
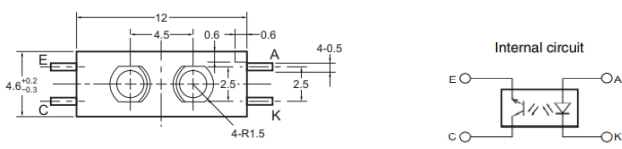
Discontinued Model EE-SX3148-P1	Suggested replacement Model EE-SX3162-P2 / Model EE-SX3173-P2																
Wire connection  <p style="text-align: center;">内部回路</p>  <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>端子記号</th> <th>名称</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>電源 (Vcc)</td> </tr> <tr> <td>2</td> <td>出力 (OUT)</td> </tr> <tr> <td>3</td> <td>グラウンド (GND)</td> </tr> </tbody> </table>	端子記号	名称	1	電源 (Vcc)	2	出力 (OUT)	3	グラウンド (GND)	Wire connection <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Model EE-SX3162-P2</p>  </div> <div style="text-align: center;"> <p>Model EE-SX3173-P2</p>  </div> </div> <p style="text-align: center;">内部回路</p>  <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>端子記号</th> <th>名称</th> </tr> </thead> <tbody> <tr> <td>①</td> <td>グラウンド GND</td> </tr> <tr> <td>②</td> <td>出力 OUT</td> </tr> <tr> <td>③</td> <td>電源 Vcc</td> </tr> </tbody> </table>	端子記号	名称	①	グラウンド GND	②	出力 OUT	③	電源 Vcc
端子記号	名称																
1	電源 (Vcc)																
2	出力 (OUT)																
3	グラウンド (GND)																
端子記号	名称																
①	グラウンド GND																
②	出力 OUT																
③	電源 Vcc																

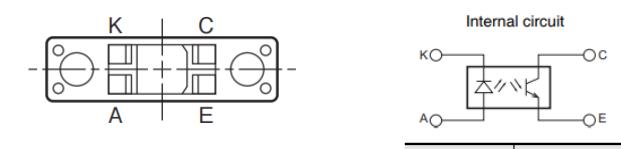

Wire connection (Continued):

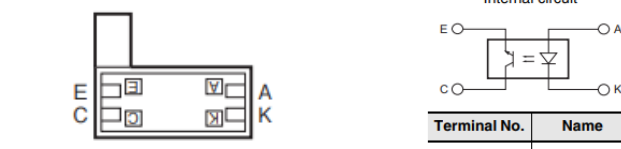

Discontinued Model EE-SX305 / EE-SX405	Suggested replacement Model EE-SX398 / Model EE-SX498																								
<p>Wire connection</p>  <p style="text-align: center;">Internal circuit</p>  <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #d9d9d9;">Terminal No.</th> <th style="background-color: #d9d9d9;">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>Power supply (Vcc)</td> </tr> <tr> <td>O</td> <td>Output voltage (OUT)</td> </tr> <tr> <td>G</td> <td>Ground (GND)</td> </tr> </tbody> </table>	Terminal No.	Name	A	Anode	K	Cathode	V	Power supply (Vcc)	O	Output voltage (OUT)	G	Ground (GND)	<p>Wire connection</p>  <p style="text-align: center;">Internal Circuit</p>  <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #d9d9d9;">Terminal No.</th> <th style="background-color: #d9d9d9;">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>Power supply (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	Power supply (Vcc)	O	Output (OUT)	G	Ground (GND)
Terminal No.	Name																								
A	Anode																								
K	Cathode																								
V	Power supply (Vcc)																								
O	Output voltage (OUT)																								
G	Ground (GND)																								
Terminal No.	Name																								
A	Anode																								
K	Cathode																								
V	Power supply (Vcc)																								
O	Output (OUT)																								
G	Ground (GND)																								

Discontinued Model EE-SA102	Suggested replacement										
<p>Wire connection</p>  <p style="text-align: center;">Internal circuit</p>  <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #d9d9d9;">Terminal No.</th> <th style="background-color: #d9d9d9;">Name</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Anode</td> </tr> <tr> <td>K</td> <td>Cathode</td> </tr> <tr> <td>C</td> <td>Collector</td> </tr> <tr> <td>E</td> <td>Emitter</td> </tr> </tbody> </table>	Terminal No.	Name	A	Anode	K	Cathode	C	Collector	E	Emitter	<p>No Suggested Replacement</p>
Terminal No.	Name										
A	Anode										
K	Cathode										
C	Collector										
E	Emitter										

Wire connection (Continued):

Discontinued Model EE-SY113	Suggested replacement Model EE-SY110																				
<p>Wire connection</p>  <table border="1" style="margin-left: auto; margin-right: auto;"> <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>C</td><td>Collector</td></tr> <tr><td>E</td><td>Emitter</td></tr> </tbody> </table>	Terminal No.	Name	A	Anode	K	Cathode	C	Collector	E	Emitter	<p>Wire connection</p>  <table border="1" style="margin-left: auto; margin-right: auto;"> <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>C</td><td>Collector</td></tr> <tr><td>E</td><td>Emitter</td></tr> </tbody> </table>	Terminal No.	Name	A	Anode	K	Cathode	C	Collector	E	Emitter
Terminal No.	Name																				
A	Anode																				
K	Cathode																				
C	Collector																				
E	Emitter																				
Terminal No.	Name																				
A	Anode																				
K	Cathode																				
C	Collector																				
E	Emitter																				

Discontinued Model EE-SB5	Suggested replacement Model EE-SF5																				
<p>Wire connection</p>  <table border="1" style="margin-left: auto; margin-right: auto;"> <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>C</td><td>Collector</td></tr> <tr><td>E</td><td>Emitter</td></tr> </tbody> </table>	Terminal No.	Name	A	Anode	K	Cathode	C	Collector	E	Emitter	<p>Wire connection</p>  <table border="1" style="margin-left: auto; margin-right: auto;"> <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>C</td><td>Collector</td></tr> <tr><td>E</td><td>Emitter</td></tr> </tbody> </table>	Terminal No.	Name	A	Anode	K	Cathode	C	Collector	E	Emitter
Terminal No.	Name																				
A	Anode																				
K	Cathode																				
C	Collector																				
E	Emitter																				
Terminal No.	Name																				
A	Anode																				
K	Cathode																				
C	Collector																				
E	Emitter																				

Discontinued Model EE-SX129	Suggested replacement Model EE-SV3																				
<p>Wire connection</p>  <table border="1" style="margin-left: auto; margin-right: auto;"> <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>C</td><td>Collector</td></tr> <tr><td>E</td><td>Emitter</td></tr> </tbody> </table>	Terminal No.	Name	A	Anode	K	Cathode	C	Collector	E	Emitter	<p>Wire connection</p>  <table border="1" style="margin-left: auto; margin-right: auto;"> <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>C</td><td>Collector</td></tr> <tr><td>E</td><td>Emitter</td></tr> </tbody> </table>	Terminal No.	Name	A	Anode	K	Cathode	C	Collector	E	Emitter
Terminal No.	Name																				
A	Anode																				
K	Cathode																				
C	Collector																				
E	Emitter																				
Terminal No.	Name																				
A	Anode																				
K	Cathode																				
C	Collector																				
E	Emitter																				

Dimensions:

<p align="center">Discontinued Model EE-SX3148-P1</p>	<p align="center">Suggested replacement Model SX3162-P2 / Model EE-SX3173-P2</p>
<p>Dimensions WxLxH : 6.4mmx26mmx13.5mm Slot width : 3.6mm</p> <p>Technical drawing of discontinued model EE-SX3148-P1. Dimensions include: 26±0.2, 20.5±0.1, 2.5, 4-R0.5, 6.4±0.1, 20, 2.6, 2-φ1.8, 7.7±0.2, 11.3±0.2, 16.4±0.2, 13.5, 2.9±0.2, 7.5±0.2, 2.5, 13.5, 2.6, 16.4±0.2, 0.5±0.1 (スリット幅), 2-C0.3, 1.5, 1.5, 2, 2.6, 16.4±0.2. Manufacturer: 日本圧着端子製造 (JST) B3B-ZR.</p>	<p>Dimensions Model EE-SX3162-P2 WxLxH: 16mmx13mmx14mm Slot width : 5mm</p> <p>Technical drawing of suggested replacement Model EE-SX3162-P2. Dimensions include: 16, 11, 13, 2.7, 5, 4.5, 2, 5, 2.5, 2-R1.55, 7.5, 5.4, 8.3, 4.5, 6, 11.6, 1.4, 1.4, 0.5 (スリット幅), 1.4, 断面図 A-A.</p> <p>Model EE-SX3173-P2 WxLxH: 14.8mmx13.6mmx14.7mm Slot width : 5mm</p> <p>Technical drawing of suggested replacement Model EE-SX3173-P2. Dimensions include: 14.8, 6.6, 8.2, 5.6, 0.5 (スリット幅), 1.4, 7, 4, 3.2, φ3.2, 7.9, 13.6, 12.4, 2.7, 5, 2.7, 14.7, 8.2, 7.5, 6.5, 6.3, 11.2, 1.4, 1.4, 断面図 A-A, 日本圧着端子製造 SAKC89-GH, マーク面 (ブランドマーク, 形式, ロット), ③ ② ①.</p>

<p align="center">Discontinued Model EE-SX305 / EE-SX405</p>	<p align="center">Suggested replacement Model EE-SX398 / Model EE-SX498</p>
<p>Dimensions WxLxH : 6.2mmx15.4mmx14mm Slot width : 3.4mm</p> <p>Technical drawing of discontinued model EE-SX305 / EE-SX405. Dimensions include: 0.5, 14.4, 1, 6.2, 0.3, 0.5, 3.4±0.2, 0.2, 2.1, 10±0.2, 4, 6, 1.25, 1.25, 13, 0.8, 5-0.25, 2.5±0.2, 9.8±0.3, 3, 5-0.25, 3, 9.8±0.3. Labels: Optical axis, Center mark, Cross section BB, Cross section AA.</p>	<p>Dimensions WxLxH : 5mmx12.2mmx10mm Slot width : 3mm</p> <p>Technical drawing of suggested replacement Model EE-SX398 / Model EE-SX498. Dimensions include: 12.2±0.3, 3±0.1, 5, 5±0.1, 0.5±0.1, 8.5±0.5, 8.2±0.5, 2.5±0.2, 10±0.2, 2.5±0.1, 12.2±0.3, 3±0.1, 0.5, 1.4, 1.4, 0.5, 2, 6.5±0.1, 6.2±0.5, 1.4, 1.4, 0.25±0.1 (2.5), 0.5±0.1. Labels: Optical axis, Cross section BB, Cross section AA, K, A, V, C, G.</p>

Dimensions (Continued):

Discontinued Model EE-SA102	Suggested replacement
<p>Dimensions WxLxH : 6mmx17mmx16mm Slot width : 3m</p> <p>Cross section view B-B</p> <p>Cross section view A-A</p> <p>Details of part C</p>	<p>No Suggested Replacement</p>

Discontinued Model EE-SY113	Suggested replacement Model EE-SY110
<p>Dimensions WxLxH : 12mmx6.2mmx6mm</p> <p>Notch for direction identification</p>	<p>Dimensions WxLxH: 12mmx4.6mmx4.8mm</p>

Dimensions (Continued):

Discontinued Model EE-SB5	Suggested replacement Model EE-SF5
<p>Dimensions WxLxH : 24.5mmx6.35mmx11.5mm</p>	<p>Dimensions WxLxH: 13mmx5.4mmx8mm</p>

Discontinued Model EE-SX129	Suggested replacement Model EE-SV3-D
<p>Dimensions WxLxH : 13mmx6mmx8mm Slot width : 3mm</p>	<p>Dimensions WxLxH: 15.1mmx19mmx10.2mm Slot width : 3.4mm</p>

Characteristics:

Item	Discontinued Model Model EE-SX3148-P1	Suggested replacement Model EE-SX3162-P2 / Model EE-SX3173-P2
Power supply voltage	Maximum Ratings 6 V	
Output voltage	Maximum Ratings 28 V	
Output current	Maximum Ratings 16m A	
Permissible output dissipation	Maximum Ratings 250 mW	
Operating temperature	-20~+75°C	
Storage temperature	-40~+85°C	
Current consumption	MAX 30 mA (Conditions With and without incident)	
Low-level output voltage	MAX 0.3 V (Conditions $I_{OUT}=16mA$, With incident)	
High-level output voltage	MIN $V_{CC} \times 0.9$ V (Conditions $V_{OUT}=V_{CC}$, With incident, $R_L=47k\Omega$)	
Response frequency	MIN 3 kHz (Conditions $V_{OUT}=V_{CC}$, $R_L=47k\Omega$)	

Characteristics (Continued):

Item	Discontinued Model Model EE-SX305 / EE-SX405	Suggested replacement Model EE-SX398 / Model EE-SX498
Emitter Forward current	Maximum Ratings 50 mA	
Emitter Reverse voltage	Maximum Ratings 4 V	
Detector Power supply voltage	Maximum Ratings 16 V	
Detector Output voltage	Maximum Ratings 28 V	
Detector Output current	Maximum Ratings 16 mA	
Detector Permissible output dissipation	Maximum Ratings 250 mW	
Operating temperature	-40°C ~ 75°C	-25°C ~ 75°C
Storage temperature	-40°C ~ 85°C	-25°C ~ 85°C
Emitter Forward voltage	TYP:1.2 V MAX:1.5 V (Conditions $I_F=20\text{mA}$)	
Emitter Reverse current	TYP:0.01 μA MAX:10 μA (Conditions $V_R=4\text{V}$)	
Emitter Peak emission wavelength	TYP: 940nm (Conditions $I_F=20\text{mA}$)	
Detector Low-level output voltage	TYP:0.12 V MAX:0.4 V (Conditions $V_{CC}=4.5\sim 16\text{V}$, $I_{OL}=16\text{mA}$, $I_F=0\text{mA}$:EE-SX305 $I_F=8\text{mA}$:EE-SX405)	TYP:0.12 V MAX:0.4 V (Conditions $V_{CC}=4.5\sim 16\text{V}$, $I_{OL}=16\text{mA}$, $I_F=0\text{mA}$:EE-SX398 $I_F=5\text{mA}$:EE-SX498)
Detector High-level output voltage	MIN:15 V (Conditions $V_{CC}=16\text{V}$, $R_L=1\text{k}\Omega$, $I_F=8\text{mA}$:EE-SX305 $I_F=0\text{mA}$:EE-SX405)	MIN:15 V (Conditions $V_{CC}=16\text{V}$, $R_L=1\text{k}\Omega$, $I_F=5\text{mA}$:EE-SX398 $I_F=0\text{mA}$:EE-SX498)
Detector Current consumption	TYP:3.2 mA MAX:10 mA (Conditions $V_{CC}=16\text{V}$)	
Detector Peak spectral sensitivity wavelength	TYP:870 nm (Conditions $V_{CE}=4.5\sim 16\text{V}$)	
LED current when output is OFF	TYP:3 mA MAX:8 mA (Conditions $V_{CE}=4.5\sim 16\text{V}$, EE-SX305)	TYP:2 mA MAX:5 mA (Conditions $V_{CE}=4.5\sim 16\text{V}$, EE-SX398)
LED current when output is ON	TYP:3 mA MAX:8 mA (Conditions $V_{CE}=4.5\sim 16\text{V}$, EE-SX405)	TYP:2 mA MAX:5 mA (Conditions $V_{CE}=4.5\sim 16\text{V}$, EE-SX498)
Hysteresis	TYP:15 % (Conditions $V_{CE}=4.5\sim 16\text{V}$)	
Response frequency	MIN:3 kHz (Conditions $V_{CE}=4.5\sim 16\text{V}$, $I_F=15\text{mA}$, $I_{OL}=16\text{mA}$)	
Response delay time	TYP:3 μs (Conditions $V_{CC}=4.5\sim 16\text{V}$, $I_F=15\text{mA}$, $I_{OL}=16\text{mA}$) EE-SX305: raise time EE-SX405: falling time	TYP:3 μs (Conditions $V_{CC}=4.5\sim 16\text{V}$, $I_F=15\text{mA}$, $I_{OL}=16\text{mA}$) EE-SX398: raise time EE-SX498: falling time
Response delay time	TYP:20 μs (Conditions $V_{CC}=4.5\sim 16\text{V}$, $I_F=15\text{mA}$, $I_{OL}=16\text{mA}$) EE-SX305: falling time EE-SX405: raise time	TYP:20 μs (Conditions $V_{CC}=4.5\sim 16\text{V}$, $I_F=15\text{mA}$, $I_{OL}=16\text{mA}$) EE-SX398: falling time EE-SX498: raise time

Characteristics (Continued):

Item	Discontinued Model Model EE-SA102	Suggested replacement
Emitter Forward current	Maximum Ratings 50 mA	No recommended replacement
Emitter Pulse forward current	Maximum Ratings 1 mA (Pulse width ≤ 10 us, Repeated 100 Hz)	
Emitter Reverse voltage	Maximum Ratings 4 V	
Detector Collector–Emitter voltage	Maximum Ratings 30 V	
Detector Collector current	Maximum Ratings 20 mA	
Detector Collector dissipation	Maximum Ratings 100 mW	
Operating temperature	-25°C ~ 85°C	
Storage temperature	-30°C ~ 100°C	
Emitter Forward voltage	TYP:1.2 V MAX:1.5 V (Conditions $I_F=30$ mA)	
Emitter reverse current	TYP:0.01 uA MAX:10 uA (Conditions $V_R=4$ V)	
Emitter Peak emission wavelength	TYP: 940nm (Conditions $I_F=20$ mA)	
Detector Light current	MIN:0.5 mA MAX:14 mA (Conditions $I_F=20$ mA, $V_{CE}=10$ V)	
Detector Dark current	TYP: 2 nA MAX: 200 nA ($V_{CE}=10$ V, 0 lx)	
Detector Collector–Emitter saturated voltage	TYP:0.1 V MAX: 0.4 V (Conditions $I_F=20$ mA, $I_L=0.1$ mA)	
Detector Peak spectral sensitivity wavelength	TYP:850 nm (Conditions $V_{CE}=10$ V)	
Rising time	TYP:4 us (Conditions $V_{CC}=5$ V, $R_L=100$ Ω, 5mA)	
Falling time	TYP:4 us (Conditions $V_{CC}=5$ V, $R_L=100$ Ω, 5mA)	

Characteristics (Continued):

Item	Discontinued Model Model EE-SY113	Suggested replacement Model EE-SY110
Emitter forward current	Maximum Ratings 50 mA	
Emitter pulse forward current	Maximum Ratings 1 A (Conditions The pulse width is 10 μ s maximum with a frequency of 100 Hz.)	
Emitter reverse voltage	Maximum Ratings 4 V	
Detector Collector–Emitter voltage	Maximum Ratings 30 V	
Detector collector current	Maximum Ratings 20 mA	
Detector collector dissipation	Maximum Ratings 100 mW	
Operating temperature	-40°C~80°C	-40°C~85°C
Storage temperature	-40°C~85°C	
Emitter forward voltage	TYP:1.2 V MAX:1.5 V (Conditions $I_F=30$ mA)	
Emitter reverse current	TYP:0.01 μ A MAX:10 μ A (Conditions $V_R=4$ V)	
Emitter peak emission wavelength	TYP:940nm (Conditions $I_F=20$ mA)	
Detector light current	MIN:0.16 mA MAX:1.6 mA (Conditions $I_F=20$ mA, $V_{CE}=10$ V Reflectance 90% white paper d= 4.4 mm)	MIN:0.2 mA MAX:2 mA (Conditions $I_F=20$ mA, $V_{CE}=10$ V Reflectance 90% white paper d=5 mm)
Detector dark current	TYP:2 nA MAX:200 nA (Conditions $V_{CE}=10$ V, 0lx)	
Detector leakage current	MAX:2 μ A (Conditions $I_F=20$ mA, $V_{CE}=10$ V Non-reflective state)	
Detector peak spectral sensitivity wavelength	TYP:850 nm (Conditions $V_{CE}=10$ V)	
Rising time	TYP:30 μ s (Conditions $V_{CC}=5$ V, $R_L=1000\Omega$, $I_L=1$ mA)	
Falling time	TYP:30 μ s (Conditions $V_{CC}=5$ V, $R_L=1000\Omega$, $I_L=1$ mA)	

Characteristics (Continued):

Item	Discontinued Model Model EE-SB5	Suggested replacement Model EE-SF5
Emitter forward current	Maximum Ratings 50 mA	
Emitter pulse forward current	Maximum Ratings 1 A (Conditions The pulse width is 10 μs maximum with a frequency of 100 Hz.)	
Emitter reverse voltage	Maximum Ratings 4 V	
Detector Collector–Emitter voltage	Maximum Ratings 30 V	
Detector collector current	Maximum Ratings 20 mA	
Detector collector dissipation	Maximum Ratings 100 mW	
Operating temperature	-25°C~80°C	
Storage temperature	-30°C~80°C	
Emitter forward voltage	TYP:1.2 V MAX:1.5 V (Conditions $I_F=30\text{mA}$)	
Emitter reverse current	TYP:0.01 μA MAX:10 μA (Conditions $V_R=4\text{V}$)	
Emitter peak emission wavelength	TYP:940nm (Conditions $I_F=20\text{mA}$)	
Detector light current	MIN:0.2 mA MAX:2 mA (Conditions $I_F=20\text{mA}$, $V_{CE}=10\text{V}$ Reflectance 90% white paper d=5 mm)	
Detector dark current	TYP:2 nA MAX:200 nA (Conditions $V_{CE}=10\text{V}$, 0lx)	
Detector leakage current	MAX:2 μA (Conditions $I_F=20\text{mA}$, $V_{CE}=10\text{V}$ Non-reflective state)	
Detector peak spectral sensitivity wavelength	TYP:850 nm (Conditions $V_{CE}=10\text{V}$)	
Rising time	TYP:30 μs (Conditions $V_{CC}=5\text{V}$, $R_L=1000\Omega$, $I_L=1\text{mA}$)	
Falling time	TYP:30 μs (Conditions $V_{CC}=5\text{V}$, $R_L=1000\Omega$, $I_L=1\text{mA}$)	

Characteristics (Continued):

Item	Discontinued Model Model EE-SX129	Suggested replacement Model EE-SV3-D
Emitter forward current	Maximum Ratings 50 mA	
Emitter pulse forward current	Maximum Ratings 1 A (Conditions The pulse width is 10 μ s maximum with a frequency of 100 Hz.)	
Emitter reverse voltage	Maximum Ratings 4 V	
Detector Collector–Emitter voltage	Maximum Ratings 30 V	
Detector collector current	Maximum Ratings 20 mA	
Detector collector dissipation	Maximum Ratings 100 mW	
Operating temperature	-25°C~85°C	
Storage temperature	-40°C~100°C	-30°C~100°C
Emitter forward voltage	TYP:1.2 V MAX:1.5 V (Conditions $I_F=30$ mA)	
Emitter reverse current	TYP:0.01 μ A MAX:10 μ A (Conditions $V_R=4$ V)	
Emitter peak emission wavelength	TYP:920nm (Conditions $I_F=20$ mA)	TYP:940nm (Conditions $I_F=20$ mA)
Detector light current	MIN:0.2 mA (Conditions $I_F=20$ mA, $V_{CE}=10$ V)	MIN:0.1 mA (Conditions $I_F=20$ mA, $V_{CE}=10$ V)
Detector dark current	TYP:2 nA MAX:200 nA (Conditions $V_{CE}=10$ V, 0lx)	
Detector peak spectral sensitivity wavelength	TYP:850 nm (Conditions $V_{CE}=10$ V)	
Rising time	TYP:4 μ s (Conditions $V_{CC}=5$ V, $R_L=100\Omega$, $I_L=5$ mA)	
Falling time	TYP:4 μ s (Conditions $V_{CC}=5$ V, $R_L=100\Omega$, $I_L=5$ mA)	

* 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.
This PCN is intended for use in the Americas
Last time buy dates are subject to change based on availability