

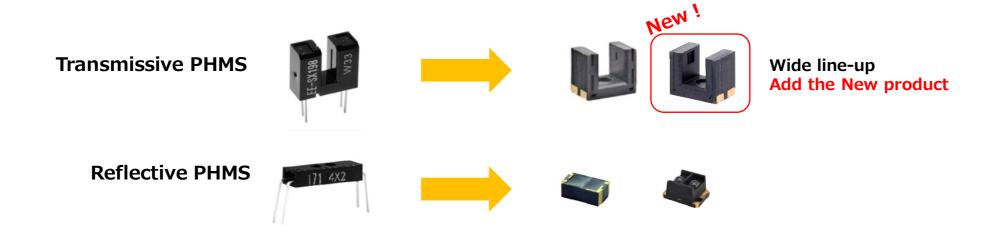
NPI New Transmissive SMD type PHotoMicroSensor (PHMS) EE-SX1330-2 (High-speed response type)





Background of Product Launch

Focus on SMD type PHMS and target to Automation Equipment.

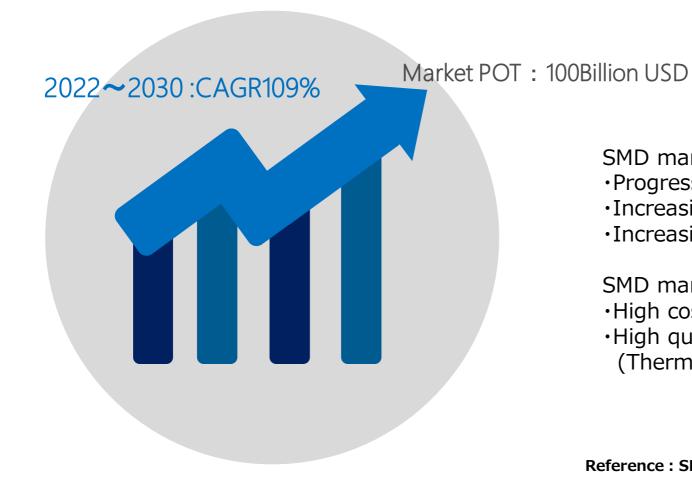


- ① We focus on trending SMD types PHMS, and target to Automation Equipment.
- ② Our transmissive SMD type PHMS are growing year by year.
- ③ We would like to expand transmissive PHMS variation.



Market Trends

SMD Market is growing with CAGR over109%.



SMD market expansion factors

- Progressing downsizing the Home appliances
- Increasing the Electric vehicles
- •Increasing the flex circuits in Mobile equipment

SMD market shrinking factors

- ·High cost
- ·High quality control about mounting (Thermal, Frequency)

Reference: SDKI Inc.「表面実装技術 (SMT) 市場-世界的な予測2030年」



New Product Main Spec

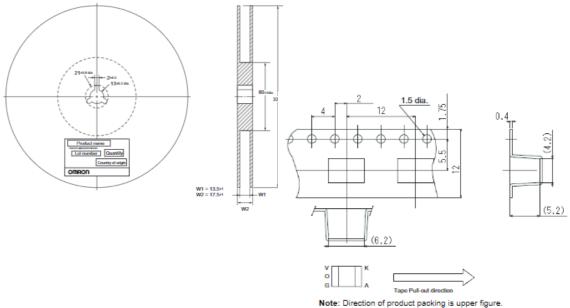
3-mm slot width x SMD x High-speed response type

Description: EE-SX1330-2



項目	EE-SX1330-2
Outline Size W×D×H	5 6 mm
Slot width	3mm
Mounting	SMD
Output	Phototransistor (Analog Output)
Tape and Reel	1,000 pcs/reel

Tape and Reel of EE-SX1330-2







New Product Features & Benefits

Features

- Hi speed response
- Surface Mount
- Outline 5×6×4mm
- Side Pad



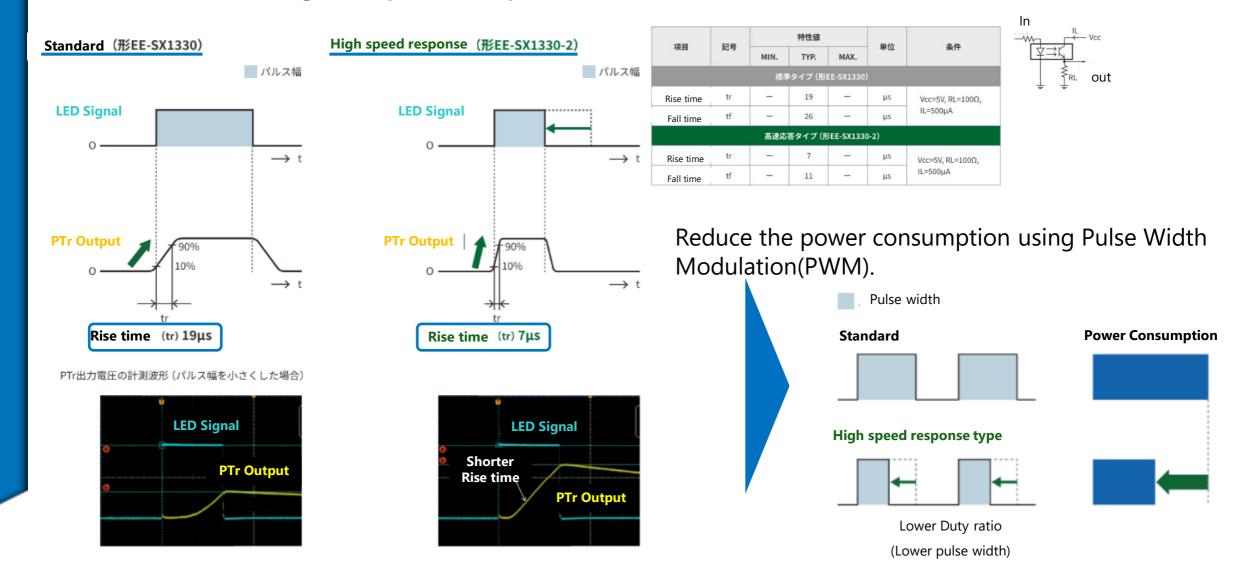
Benefits

- Rise/Fall time is shorter than standard type.
 To reduce Power Consumption in PWM.
- Reflow Soldering
- Miniaturization
- Good Mounting stability
 (compared with Lead terminal bending)



New Product Features & Benefits

EE-SX1330-2 is higher speed response vs standard EE-SX1330.



Product Positioning

Competitor doesn't have Transmissive SMD Hi-speed response type. Omron target to 3-5mm slot width and special type.

	Slot width 1m		1mm 2mn		1	3mm		4mm		5mm		x = no product
	Output	PTr	PIC	PTr	PIC	PTr	PIC	PTr	PIC	PTr	PIC	= product available
Competitor	S*	√	×	1	×	×	×	×	×	×	×	
	R*	1	×	√	×	√	×	√ 4.5mm	×	×	×	
	K*	×	×	1	×	√	×	×	×	×	×	
	V*	×	×	× npetitor Ta	×	√ 2ch/4ch	×	×	×	×	×	
	O*	×	×	×	×	×	×	×	×	√	×	
	Omron (EE-SX series)	×	×	SX1320 SX1321(2ch)	SX4320	SX1330 SX1330-2	SX4330	SX1340	SX3340 SX4340	SX1350	SX3350 SX4350	
ı	Market POT		HA		obile ther	All Omron Target Automation Equipment						

OMRON

Competitor Info/Cross Reference

Cross Ref.
Table
available!

x = no product $\sqrt{\ } = product available$

SMD Type Transmissive

Slot Width			2mm	3mm	4mm	5mm	
	S*	PTr	\checkmark	×	×	×	
		PIC	X	×	×	×	
ر ر	R*	PTr	√	√	√	×	
omp		PIC	X	X	×	×	
petitor	K*	PTr	√	\checkmark	×	×	
<u> </u>		PIC	×	X	×	×	
	V*	PTr	×	✓	×	×	
	·	PIC	×	X	×	×	
	Omron	PTr	EE-SX1320 /SX1321	EE-SX1330/ <mark>1330-2</mark>	EE-SX1340	EE-SX1350	
	Onnon	PIC	EE-SX4320	EE-SX4330	EE-SX3340 /4340	EE-SX3350 /4350	

ADVANTAGES OF PIC vs PTr



- Amplification of signal
- Digital output signal (ON/OFF)
- Stronger against noise (more stability)
- Two output polarities
- High speed of operation



Details of Target Application Examples

Smart Meter

Gas/Water Meter



Function: Rotor rotation detection for flow rate detection Needs: Low electric consumption =>PWM efficiency Hi speed response time

Automation Equipment Mini-Printers





Function: Unit detection Needs: Miniaturize

Automation Equipment

IP Camera



Function: Moving Position detection

Needs: Miniaturize

Low electric consumption

Automation Equipment

Laser Level line tool



Function: Rotation detection Needs: Miniaturize



