

Photomicrosensors

OMRON

Selection Guide

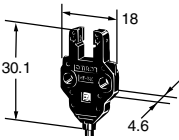
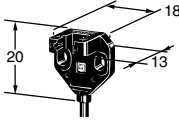
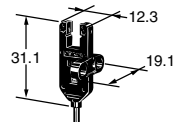
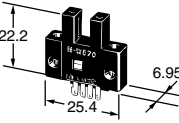
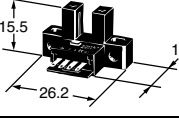
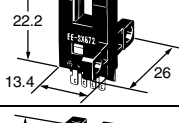
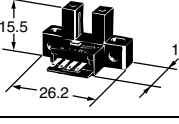
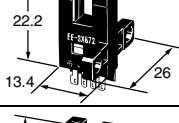
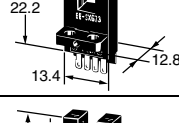
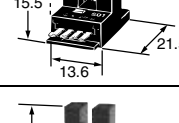
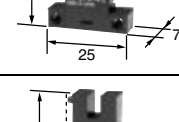
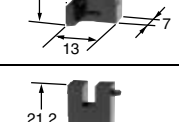
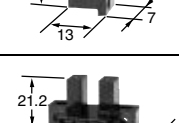
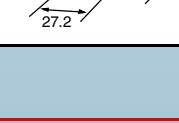
■ Photomicrosensors

Classified According to Product model
Transmissive Models (Groove-type)



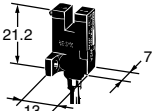
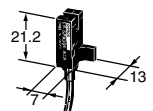
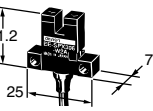
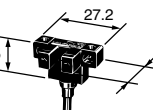
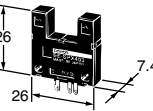
*  Indicates models with indicators that light red when the light is interrupted.

 Infrared light

Appearance	Sensing distance	Configuration	Features	Output configuration	Indicator*	Model	
						NPN output	PNP output
	 5 mm (groove width)	IR light	Subminiature, slim, pre-wired models Emitter-Detector 	Dark-ON	---	EE-SX770	EE-SX770P
						EE-SX770A	EE-SX770R
				Light-ON	---	EE-SX870	EE-SX870P
						EE-SX870A	EE-SX870R
				Dark-ON	---	EE-SX771	EE-SX771P
						EE-SX771A	EE-SX771R
				Light-ON	---	EE-SX871	EE-SX871P
						EE-SX871A	EE-SX871R
				Dark-ON	---	EE-SX772	EE-SX772P
						EE-SX772A	EE-SX772R
				Light-ON	---	EE-SX872	EE-SX872P
						EE-SX872A	EE-SX872R
	 3.6 mm (groove width)	Modulated light	General-purpose models with connectors Emitter-Detector 	Dark-ON/Light-ON (selectable)	---	EE-SX670	EE-SX670P
						EE-SX670A	EE-SX670R
				Dark-ON/Light-ON (selectable)	---	EE-SX671	EE-SX671P
						EE-SX671A	EE-SX671R
				Dark-ON/Light-ON (selectable)	---	EE-SX672	EE-SX672P
						EE-SX672A	EE-SX672R
				Dark-ON/Light-ON (selectable)	---	EE-SX673	EE-SX673P
						EE-SX673A	EE-SX673R
				Dark-ON/Light-ON (selectable)	---	EE-SX674	EE-SX674P
						EE-SX674A	EE-SX674R
	 5 mm (groove width)	Modulated light	Models with connectors Emitter-Detector 	Dark-ON	---	EE-SPX740	---
				Light-ON	---	EE-SPX840	---
				Dark-ON	---	EE-SPX742	---
				Light-ON	---	EE-SPX842	---
				Dark-ON	---	EE-SPX743	---
				Light-ON	---	EE-SPX843	---
	 5 mm (groove width)	Modulated light	Models with connectors Emitter-Detector 	Dark-ON	---	EE-SPX741	---
				Light-ON	---	EE-SPX841	---

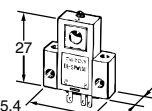
Classified According to Product Model Transmissive Models (Groove-type)


 Infrared light

Appearance	Sensing distance	Configuration	Features	Output configuration	Model
	 3.6 mm (groove width)	Modulated light	Pre-wired models Emitter-Detector 	Dark-ON	EE-SPX302-W2A
				Light-ON	EE-SPX402-W2A
				Dark-ON	EE-SPX304-W2A
				Light-ON	EE-SPX404-W2A
				Dark-ON	EE-SPX306-W2A
				Light-ON	EE-SPX406-W2A
	5 mm (groove width)		 Models with connectors Emitter-Detector	Dark-ON	EE-SPX305-W2A
				Light-ON	EE-SPX405-W2A
	13 mm (groove width)			Dark-ON	EE-SPX303
				Light-ON	EE-SPX403

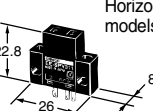
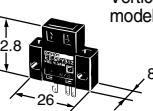
Transmissive Models


 Infrared light

Appearance	Sensing distance	Configuration	Features	Output configuration	Model
	 1 m	Modulated light	• Miniature size • Bright, easy-to-see, ON-state indicator	Dark-ON	EE-SPW311
				Light-ON	EE-SPW411
	 300 mm		• Miniature, slim • Excellent space efficiency	Dark-ON	EE-SPW321 EE-SPW321-A
				Light-ON	EE-SPW421 EE-SPW421-A

Reflective Models


 Infrared light

Appearance	Sensing distance	Sensing method	Configuration	Features	Output configuration	Model
	 2 to 5 mm	Convergent reflective models	Modulated light	Minimal influence from background objects	Dark-ON	EE-SPY311
					Light-ON	EE-SPY411
					Dark-ON	EE-SPY312
					Light-ON	EE-SPY412

Photomicrosensors

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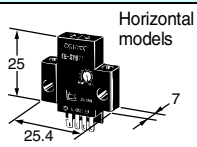
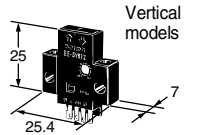
Selection Guide

■ Photoelectric Sensors

Classified According to Product Model
Reflective Models

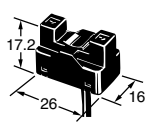


 Infrared light

Appearance	Sensing distance	Sensing method	Configuration	Features	Output configuration	Model
 Horizontal models	 1 to 5 mm	Diffuse reflective	Polarized light	Equipped with sensitivity adjuster	Dark-ON/Light-ON (selectable)	EE-SY671
 Vertical models						EE-SY672

■ Liquid Level Photomicrosensors

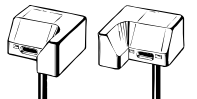
Classified According to Product Model

Appearance	Outer diameter of mounting pipe	Configuration	Features	Output configuration	Model
 EE-SPX613	6 to 13 mm dia., thickness: 1 mm - Transparent pipe	Light modulation	- Easy mounting - Equipped with sensitivity selector	Dark-ON/Light-ON (selectable)	EE-SPX613

■ Photomicrosensors to Detect Wafer-carrier Mounting

Classified According to Product Model

 Infrared light

Appearance	Sensing distance	Sensing method	Features	Output configuration	Model
 EE-SPY801/802	 0 to 3 mm (wafer carrier)	Reflective (light modulation)	Wafer-carrier mounting detection	Turns ON when wafer carrier is present.	EE-SPY80□