

Photomicrosensors

Navigation Guide



Product Line	EE-SX95	EE-SX77/87	EE-SX47/67	EE-SPX74/84	EE-SPX-W2A	EE-SPX-303N	EE-SPY-31
Selling Tips	<ul style="list-style-type: none"> • 5 models • Both Light-On and Dark-On outputs provided • Mount using M2 or M3 Screws • Robot Cable available 	<ul style="list-style-type: none"> • Compact size • Indicator visible from both sides • M3 mounting holes and slotted mounting holes for easy adjustment 	<ul style="list-style-type: none"> • Visible indicator from many directions • Response frequency as high as 1kHz • Robot Cable standard on pre-wired models 	<ul style="list-style-type: none"> • 4 models • Connectors with locks for vibration applications • Mount with M3 screws 	<ul style="list-style-type: none"> • 4 models • Light modulation to reduce external light interference • Bright Light Indicator 	<ul style="list-style-type: none"> • Widest Slot type • Resistant to common noise 	<ul style="list-style-type: none"> • Can be used in front of shiny background • Small object detection (0.05 mm Dia) • Light modulation reduces external light interference
Housing Material	Polybutylene phthalate (PBT) (Case/Cover) Polycarbonate (PC) (Emitter/receiver)	Polybutylene phthalate (PBT)	Polybutylene phthalate (PBT) (Case/Cover) Polycarbonate (PC) (Emitter/receiver)	Polycarbonate (PC)	Polycarbonate (PC)	Polycarbonate (PC)	Polycarbonate PC (case) Polybutylene Phthalate PBT (holder)
Sensing Distance	5 mm slot width	5 mm slot width	5 mm slot width	3.6 or 5 mm slot width	3.6 or 5 mm slot width	13 mm slot width	2 to 5 mm
Output Type	NPN, PNP	NPN, PNP	NPN, PNP	NPN	NPN	NPN	NPN
Output Configuration	Out 1: Light-On Out 2: Dark-On	Light-On or Dark-On	Light-On/Dark-On (selectable)	Light-On or Dark-On	Light-On or Dark-On	Light-On or Dark-On	Light-On or Dark-On
Supply Voltage	5 - 24 VDC	5 - 24 VDC	5 - 24 VDC	5 - 24 VDC	5 - 24 VDC	12 - 24 VDC	5 - 24 VDC
Connection Type	<ul style="list-style-type: none"> • Pre-wired (4 wire cable) (1 m std length) 	<ul style="list-style-type: none"> • Pre-Wired (3 wire cable) (2 m std length) 	<ul style="list-style-type: none"> • 4 wire cable (1 m std length) • Solder Connector • Connector with 1 m Cable 	<ul style="list-style-type: none"> • Special Connector (EE-I013 with 1 m cable) 	<ul style="list-style-type: none"> • Pre-wired (3 wire cable) (1 m std length) 	<ul style="list-style-type: none"> • Connector with standard cable • Connector with robot cable • NPN to PNP Conversion connector 	<ul style="list-style-type: none"> • Connector with standard cable • Connector with robot cable • NPN to PNP Conversion connector
Catalog Numbers	<ul style="list-style-type: none"> • EE-SX950-W 1M • EE-SX950P-W 1M • EE-SX950-R 1M 	<ul style="list-style-type: none"> • EE-SX770 • EE-SX770P • EE-SX771 • EE-SX771P 	<ul style="list-style-type: none"> • EE-SX670 • EE-SX670P • EE-SX671 • EE-SX671P 	<ul style="list-style-type: none"> • EE-SPX740 • EE-SPX742 • EE-SPX743 • EE-SPX741 	<ul style="list-style-type: none"> • EE-SPX302-W2A • EE-SPX402-W2A 	<ul style="list-style-type: none"> • EE-SPX303N • EE-SPX403N 	<ul style="list-style-type: none"> • EE-SPY311 • EE-SPY411 • EE-SPY312 • EE-SPY412

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OMRON
AUTOMATION & SAFETY



Product Line	EE-SY671/672	EE-SPX301/401 EE-SPY301/401	EE-SPW311/411	EE-SPW321/421	EE-SPX613	EE-SPZ□□□-A	EE-SA701/801
Selling Tips	<ul style="list-style-type: none"> Built in sensitivity adjustment Built-in amplifier with 100 mA capacity Bright indicator light 	<ul style="list-style-type: none"> Light Modulation, sensor not affected by external light Optical Axis mark for easy adjustment 	<ul style="list-style-type: none"> Through Beam Easy-to wire connector Bright indicator light 	<ul style="list-style-type: none"> Cable mounted amplifier for space savings mounting Through beam Both sensor head and amplifier have indicating lights 	<ul style="list-style-type: none"> Can mount on 6 mm to 13 mm diameter pipe Liquid level indicator Built-in sensitivity selector 	<ul style="list-style-type: none"> Retroreflective Photomicrosensor with lens Supports connection with PLC's 	<ul style="list-style-type: none"> Pushbutton actuator 5 million operation mechanical life
Housing Material	Polybutylene phthalate (PBT) (Case) Polycarbonate (PC) (Emitter/receiver)	Polycarbonate (PC)	Polybutylene phthalate (PBT) (Case) Polycarbonate (PC) (Lens)	ABS Resin (case) Acrylic Resin (lens)	Polycarbonate (PC)	Polycarbonate (PC)	Polycarbonate (PC) (Base) Polyacetal (Actuator)
Sensing Distance	1 to 5 mm	3 - 6 mm slot width or 5 mm distance	1 m through beam	300 mm slot width	6-13 mm dia. pipe	200 mm	Push Button
Output Type	NPN	NPN	NPN	NPN	NPN	NPN	NPN or PNP
Output Configuration	Light-On or Dark-On (Selectable)	Light-On or Dark-On	Light-On or Dark-On	Light-On or Dark-On	Light-On or Dark-On (Selectable)	Light-On or Dark-On	-
Supply Voltage	5 - 24 VDC	5 - 24 VDC	5 - 24 VDC	12 - 24 VDC	12 - 24 VDC	5 - 24 VDC	12 - 24 VDC
Connection Type	<ul style="list-style-type: none"> Connector only Connector with cable Connector with robot cable 	<ul style="list-style-type: none"> Connector only Connector with cable NPN to PNP converter 	<ul style="list-style-type: none"> Connector with 2 m cable 	<ul style="list-style-type: none"> Pre-wired 2 m cable 	<ul style="list-style-type: none"> Pre-wired 1 m cable 	<ul style="list-style-type: none"> Connector only Connector with cable NPN to PNP converter 	<ul style="list-style-type: none"> Pre-wired 1 m cable Pre-wired 1 m robot cable
Catalog Numbers	<ul style="list-style-type: none"> EE-SY671 EE-SY672 	<ul style="list-style-type: none"> EE-SPX301 EE-SPX401 EE-SPY301 EE-SPY401 	<ul style="list-style-type: none"> EE-SPW311 EE-SPW411 	<ul style="list-style-type: none"> EE-SPW321 EE-SPW321-A EE-SPW421 EE-SPW421-A 	<ul style="list-style-type: none"> EE-SPX613 	<ul style="list-style-type: none"> EE-SPZ301-A EE-SPZ401-A 	<ul style="list-style-type: none"> EE-SA801A 1M EE-SA801R 1M