

# OMRON

# Product Discontinuation Notices

August 1, 2011

**Photomicro Sensors** 

No. 2011258E

# Discontinuation Notice of Photomicrosensors EE-SX67[]/67[]P-C1J-R series and EE-1016-R-1 2M

**Product Discontinuation** 

EE-SX67[]-C1J-R series EE-SX67[]P-C1J-R series EE-1016-R-1 2M



EE-SX97[]-C1 series EE-SX97[]P-C1 series EE-1017-R 1M / 3M

**Recommended Replacement** 

EE-SX673 EE-SX673P EE-1010-R 1M / 2M

#### Discontinuation date : The end of March, 2012

#### Caution on recommended replacement

The EE-SX67 series should be used L terminal for switching operating mode, however recommended replacement, the EE-SX97 series, can be switched operating mode by changing the wiring OUT1 or OUT2.
Cable length of recommended connectors with robot cable for the EE-SX97 series are 1m or 3m type only,

can not be selected 2m type.

#### Difference from discontinued product

Model	Body Color	Dimen sions	Wire connection	Mounting Dimensions	Charact eristics	Operation ratings	Operation methods
EE-SX97[]-C1	**	*		**	*	*	**
EE-SX97[]P-C1	**	*		**	*	*	**

\*\* : Fully compatible

\* : The change is a little/Almost compatible

-- : Not compatible

- : No corresponding specification

OMRON Corporation Industrial Automation Company

# Product Discontinuation and recommended replacement

Product discontinuation	Recommended replacement
EE-SX670-C1J-R	EE-SX970-C1
EE-SX670P-C1J-R	EE-SX970P-C1
EE-SX671-C1J-R	EE-SX971-C1
EE-SX671P-C1J-R	EE-SX971P-C1
EE-SX672-C1J-R	EE-SX972-C1
EE-SX672P-C1J-R	EE-SX972P-C1
EE-SX673-C1J-R	EE-SX673
EE-SX673P-C1J-R	EE-SX673P
EE-SX674-C1J-R	EE-SX974-C1
EE-SX674P-C1J-R	EE-SX974P-C1
EE-SX675-C1J-R	EE-SX975-C1
EE-SX675P-C1J-R	EE-SX975P-C1
EE-SX676-C1J-R	EE-SX976-C1
EE-SX676P-C1J-R	EE-SX976P-C1
EE-SX677-C1J-R	EE-SX977-C1
EE-SX677P-C1J-R	EE-SX977P-C1
	EE-1017-R 1M *1
EE 1016 D 1 2M	EE-1017-R 3M *2
	EE-1010-R 1M *2
	EE-1010-R 2M *2

\*1. EE-1017 series is accessories of EE-SX97[] and EE-SX97[]P. \*2. EE-101-R series is accessories of EE-SX673 and EE-SX673P.











#### Dimensions



## Dimensions



## Characteristics

ltem	Product discontinuation	Recommendable replacement EE-SX97[1(P)-C1		
Sensing distance	5mm (slot width)	5mm (slot width)		
	5 to 24 VDC+10%.	5 to 24 VDC±10%.		
Supply voltage	ripple (P-P):10% max.	ripple (P-P):10% max.		
	NPN open collector: 35mA max.	21mA max.		
Current consumption	PNP open collector: 30mA max.			
Sensing object	Opaque 2×0.8mm min.	Opaque 2×0.8mm min.		
Differential distance	0.025mm max.	0.025mm max.		
Light source	GaAs infrared LED	GaAs infrared LED		
Indicator	Light indicator (red)	Light indicator (red)		
	NPN open collector: 5 to 24 VDC, 100mA max. 100mA load current with a residual voltage of 0.8V max. 40mA load current with a residual voltage of 0.4V max	Load power supply voltage: 5 to 24 VDC, Load current: 50mA max., Off-state current: 0.5mA max., 50mA load current with a residual voltage of 1.0V max., 5mA load current with a residual voltage of 0.4V max		
Control output	OFF current (leakage current): 0.5mA max. PNP open collector: 5 to 24 VDC, 50mA max. 50mA load current with a residual voltage of 1.3V max. OFF current (leakage current):	whith a residual voltage of 0.477 max.		
Response frequency	0.5mA max.	1 kHz min (3kHz average)		
Response frequency	OFF (Open L terminal)	OFF (OUT2 terminal)		
Output at incident	ON (Short-circuited terminal)	ON (OUT1 terminal)		
Output at interrupted	ON (Open L terminal) OFF(Short-circuited terminal)	ON (OUT2 terminal) OFF(OUT1 terminal)		
Ambient illumination	1,000 lx max. with fluorescent light on the surface of the receiver	1,000 lx max. with fluorescent light on the surface of the receiver		
Connecting method	Models with connectors	Connector Models		
Degree of protection	IEC60529 IP50	IEC60529 IP50		
Ambient temperature range	Operating: -25 to 55°C Storage: -30 to 80°C (with no icing or condensation)	Operating: -25 to 55°C Storage: -30 to 80°C (with no icing or condensation)		
Ambient humidity range	Operating: 5% to 85% Storage: 5% to 95% (with no icing or condensation)	Operating: 5% to 85% Storage: 5% to 95% (with no icing or condensation)		
Vibration resistance (Destruction)	20 to 2,000 Hz (peak acceleration:100 m/s <sup>2</sup> ) 1.5-mm double amplitude for 2h (4-min periods) each in X, Y and Z directions	10 to 2,000 Hz 0.75-mm single amplitude (15-min periods, 10 cycles) each in X, Y and Z directions		
Shock resistance	Destruction: 500 m/s <sup>-</sup> for 3 times each	Destruction: 500 m/s <sup>-</sup> for 3 times each in		
(Destruction)	$       \land, \uparrow, and \angle directions$	$\land$ , $\uparrow$ , and $\angle$ directions		

## Output circuit

