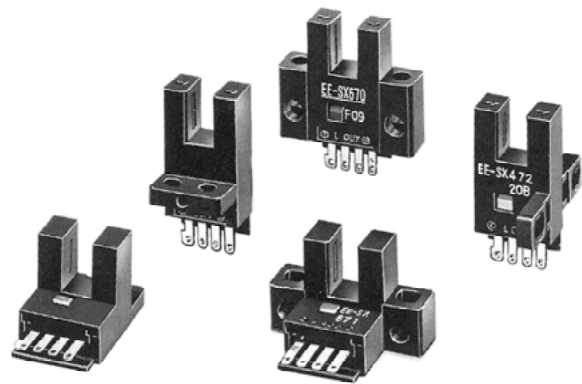










## EE-SX470/471/472/473/474/670/671/672/673/674(P)

Photomicrosensor with 50 mA (PNP) or 100 mA (NPN) Switching Capacity that can be Built into Equipment

- Standard, L-shaped, T-shaped, and close mounting models available
- Easy to maintain, plugs into Connector cordset EE-1006
- Models available with Light-ON or Light-ON/Dark-ON output configurations
- Response frequency as high as 1 kHz
- Easy operation monitoring with bright LED indicator
- Wide operating voltage range (5 to 24 VDC) makes smooth connection of the photomicrosensor with TTLs, relays, and programmable controllers (PLC) possible



### Ordering Information

Appearance	Sensing method	Slot width	Slot depth	Output configuration	Weight	Part number
	Slot	5 mm	9 mm	Light-ON	Approx. 3.1 g	EE-SX470
				Light-ON/Dark-ON (See note)		EE-SX470P
Light-ON				EE-SX670		
Light-ON/Dark-ON (See note)				EE-SX670P		
				Light-ON	Approx. 3.0 g	EE-SX471
				Light-ON/Dark-ON (See note)		EE-SX471P
				Light-ON	Approx. 2.4 g	EE-SX671
				Light-ON/Dark-ON (See note)		EE-SX671P
	Light-ON	Approx. 2.3 g	EE-SX472			
	Light-ON/Dark-ON (See note)		EE-SX472P			
	Light-ON	Approx. 3.0 g	EE-SX672			
	Light-ON/Dark-ON (See note)		EE-SX672P			
	Light-ON		Approx. 2.3 g	EE-SX473		
	Light-ON/Dark-ON (See note)			EE-SX473P		
	Light-ON	Approx. 3.0 g	EE-SX673			
	Light-ON/Dark-ON (See note)		EE-SX673P			
	Light-ON		Approx. 3.0 g	EE-SX474		
	Light-ON/Dark-ON			EE-SX474P		
	Light-ON	Approx. 3.0 g	EE-SX674			
	Light-ON/Dark-ON		EE-SX674P			

Note: The EE-SX67□ series models can be used as Light-ON models when the L terminal and positive (+) terminal are short-circuited. To use them as Dark-ON models do not short-circuit these terminals. Connector EE-1001-1 can be used for Light-ON operation.

■ ACCESSORIES

Name	Part number
Solder connector	EE-1001
Connector with 2 m cable	EE-1006
Connector holder for EE-1006	EE-1006A

## Specifications

■ RATINGS

Item		Standard	L-shaped	T-shaped	Close-mounting
Output type	NPN output	EE-SX470 EE-SX670	EE-SX471 EE-SX671	EE-SX472 EE-SX672	EE-SX473, EE-SX474 EE-SX673, EE-SX674
	PNP output	EE-SX470P EE-SX670P	EE-SX471P EE-SX671P	EE-SX472P EE-SX672P	EE-SX473P, EE-SX474P EE-SX673P, EE-SX674P
Supply voltage		5 to 24 VDC ±10%, ripple (p-p): 10% max.			
Current consumption		NPN models: 35 mA max., PNP models: 30 mA max.			
Standard reference object		Opaque: 0.8 x 2 mm			
Differential distance		0.025 mm			
Control output		NPN open collector output models: At 5 to 24 VDC: 100 mA load current ( $I_c$ ) with a residual voltage of 0.8 V max. When driving TTL: 40 mA load current ( $I_c$ ) with a residual voltage of 0.4 V max.  PNP open collector output models: At 5 to 24 VDC: 50 mA load current ( $I_c$ ) with a residual voltage of 1.3 V max.			
Indicator (See note 1.)	Without detecting object	ON			
	With detecting object	OFF			
Response frequency (See note 2.)		1 kHz max. (3 kHz typ.)			
Light source		GaAs infrared LED with a peak wavelength of 940 nm			
Receiver		Si phototransistor with a sensing wavelength of 850 nm max.			
Connecting method		EE-1001/1006 Connectors; soldering terminals/cordset			

- Note: 1. The indicator is GaP red LED (peak emission wavelength: 690 nm).  
 2. The response frequency was measured by detecting the following disks rotating.

