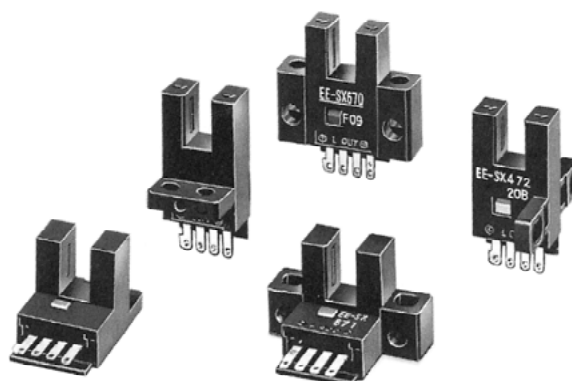


EE-SX470/471/472/473/474/670/671/672/673/674(P)

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
Standard 	Slot	5 mm	9 mm	Light-ON	Approx. 3.1 g	EE-SX470
				Light-ON/Dark-ON (See note)		EE-SX470P
						EE-SX670
						EE-SX670P
L-shaped 				Light-ON	Approx. 3.0 g	EE-SX471
				Light-ON/Dark-ON (See note)		EE-SX471P
						EE-SX671
						EE-SX671P
T-shaped 				Light-ON	Approx. 2.4 g	EE-SX472
				Light-ON/Dark-ON (See note)		EE-SX472P
						EE-SX672
						EE-SX672P
Close-mounting 	Light-ON	Approx. 2.3 g	EE-SX473			
	Light-ON/Dark-ON (See note)		EE-SX473P			
			EE-SX673			
			EE-SX673P			
Close-mounting 	Light-ON	Approx. 3.0 g	EE-SX474			
	Light-ON/Dark-ON		EE-SX474P			
			EE-SX674			
			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 $\pm 10\%$, 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.

