m	IJ	$\boldsymbol{\cap}$	П
		V	

Print

Slot-type Photomicrosensor with connector or pre-wired models (Non-modulated)*1

EE-SX672P



Image

Non-modulated Through-beam type, Grooved Type (T-shaped)(Slot center 7 mm), Connector type, Sensing distance 5 mm, Dark-ON/Light-ON (selectable), PNP open collector output, Light indicator

Туре	Grooved Type (T-shaped) (Slot center 7 mm)
Luminous method	Non-modulated
Sensing method	Through-beam type
Sensing distance	Slot width: 5 mm
Control output (Output type)	PNP open collector output
Operation mode	Dark-ON/Light-ON (selectable)
Connection method	Connector type

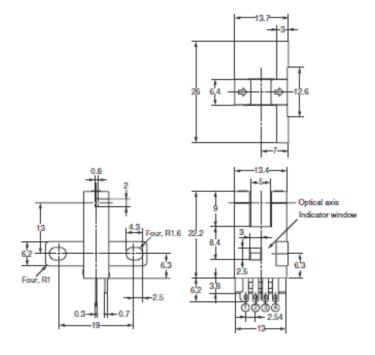
Ratings/Performance

Туре	Grooved Type (T-shaped) (Slot center 7 mm)
Luminous method	Non-modulated
Sensing method	Through-beam type
Sensing distance	Slot width: 5 mm
Operation mode	Dark-ON/Light-ON (selectable)
Standard sensing object	Opaque, 2 x 0.8 mm min.
Differential distance elements	0.025 mm max.
Light source (Peak wavelength)	Infrared LED (940 nm)
Indicator	Light indicator (red)

		·	
Power supply voltage		5 to 24 VDC ±10%	
		ripple (p-p) 10% max.	
Current consumption		12 mA (L terminal open)	
Control	Output type	PNP open collector output	
	Load power supply voltage	5 to 24 VDC	
output	Load curren	50 mA max.	
	Residual voltage	at 50 mA load current: 1.3 V max.	
Protection ci	rcuits	Output short-cut protection	
Response fre	equency elements	1 kHz min. Average value: 3 kHz	
Illumination receiver	on the surface	Fluorescent light: 1000 lx max.	
Ambient tem	perature	Operating: -25 to 55 °C (with no freezing or condensation) Storage: -30 to 80 °C (with no freezing or condensation)	
Ambient hun	nidity	Operating: 5 to 85% RH (with no condensation) Storage: 5 to 95% RH (with no condensation)	
Vibration res	istance	Destruction: 20 to 2000 Hz, peak acceleration 100 m/s ² , 1.5-mm double amplitude 2 h each in X, Y, and Z directions (4 min periods)	
Shock resist	ance	Destruction: 500 m/s ² for 3 times each in X, Y, and Z directions	
Degree of pro	otection	IP50	
Connection i	method	Connector type (Direct soldering possible)	
Weight		Package: Approx. 2.4 g	
Material		Case: Polybutylene terephthalate (PBT) Emitter/Receiver Cover: Polycarbonate (PC)	

As of August 25, 2020

Dimensions



Terminal array

Terminal Arrangement

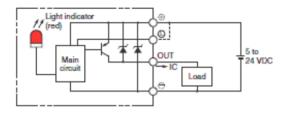
(1)	0	Vcc
(2)	L	L
(3)	OUT	OUTPUT
(4)	Φ	GND (0 V)

As of August 25, 2020

I/O Circuit diagram

As of August 25, 2020

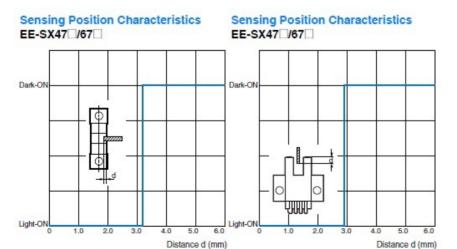
Output circuit



Timing chart

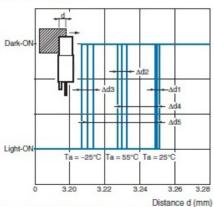
As of August 25, 2020

Engineering data (Reference value)



Repeated Sensing Position Characteristics

EE-SX47 /67



Vcc =12 V, No. of repetitions: 20, Δ d1 = 0.002 mm, Δ d2 = 0.004 mm, Δ d3 = 0.005 mm, Δ d4 = 0.02 mm, Δ d5 = 0.04 mm

Note: The data applies to dark status. Operation may be affected by external light interference or light coming through the sensing object.