

Print

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

EE-SX671-WR 1M



Non-modulated Through-beam type, Grooved Type (L-shaped), Pre-wired models, Sensing distance 5 mm, Dark-ON/Light-ON (selectable), NPN open collector output, Light indicator

Туре	Grooved Type (L-shaped)
Luminous method	Non-modulated
Sensing method	Through-beam type
Sensing distance	Slot width: 5 mm
Control output (Output type)	NPN open collector output
Operation mode	Dark-ON/Light-ON (selectable)
Connection method	Pre-wired models

Image

Ratings/Performance

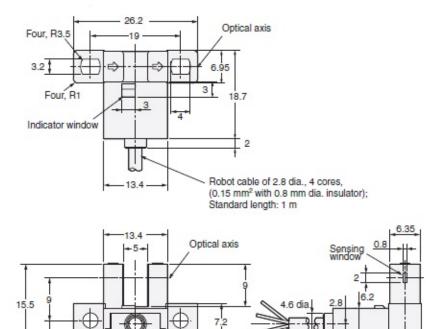
Туре		Grooved Type (L-shaped)	
Luminous method		Non-modulated	
Sensing method		Through-beam type	
Sensing distance		Slot width: 5 mm	
Operation mode		Dark-ON/Light-ON (selectable)	
Standard sensing object		Opaque, 2 x 0.8 mm min.	
Differentia elements	Il distance	0.025 mm max.	
Light source (Peak wavelength)		Infrared LED (940 nm)	
Indicator		Light indicator (red)	
Power supply voltage		5 to 24 VDC ±10% ripple (p-p) 10% max.	
Current consumption		35 mA	
	Output type	NPN open collector output	
Control	Load power supply voltage	5 to 24 VDC	
output	Load curren	100 mA max.	
	Residual voltage	at 100 mA load current: 0.8 V max. at 40 mA load current: 0.4 V max.	
Response elements	frequency	1 kHz min. Average value: 3 kHz	
Illumination on the surface receiver		Fluorescent light: 1000 lx max.	
Ambient temperature		Operating: -25 to 55 °C (with no freezing or condensation)	

	Storage: -30 to 80 °C (with no freezing or condensation)	
Ambient humidity	Operating: 5 to 85% RH (with no condensation) Storage: 5 to 95% RH (with no condensation)	
Vibration resistance	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 resistance	Destruction: 500 m/s ² for 3 times each in X, Y, and Z directions	
Degree of protection	IP50	
Connection method	Pre-wired models	
Cable length	1 m	
Weight	Package: Approx. 17.3 g	
Material Case: Polybutylene terephthalate (PBT) Emitter/Receiver Cover: Polycarbonate (PC)		

As of August 25, 2020

Dimensions

As of August 25, 2020



Two, 3.2 dia. holes

Terminal array

Terminal Arrangement

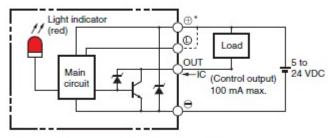
Brown	(1)	Vcc
Pink	(2)	L
Blue	(3)	GND (0 V)
Black	(4)	OUTPUT

I/O Circuit diagram

As of August 25, 2020

Output circuit

EE-SX67□-WR

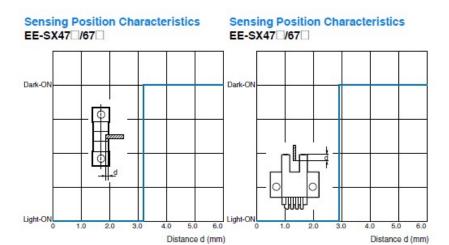


*The terminal arrangement depends on the model. Check the dimensional diagrams.

Timing chart

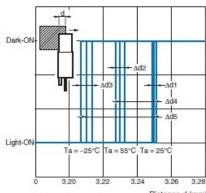
As of August 25, 2020

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,

 $\Delta d5 = 0.04 \, \text{mm}$

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