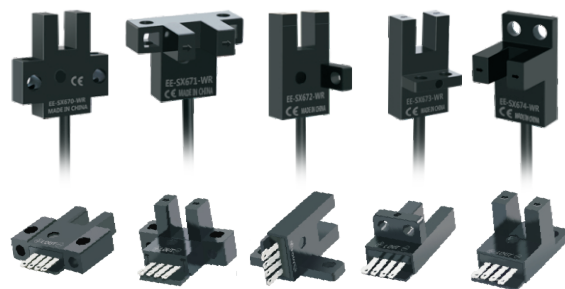


Slot-type Photomicrosensor

- Light-ON and Dark-ON are adjustable
- Response frequency: 1K HZ
- 5-24V DC power supply
- 8 different shapes
- Bending-endurable wire is customizable



EE-SX

□ Infrared light

Category		Sensing method	Connection method	Sensing distance	Operation mode	Indicator mode	Model	
Appearance							NPN output	PNP output
Standard		Thru-beam in the slot	Connector (4 poles)	5mm (slot width)	Dark-ON	Light-ON	EE-SX670	EE-SX670P
					Light-ON	Dark-ON	EE-SX670A	EE-SX670R
L-shaped					Dark-ON	Light-ON	EE-SX671	EE-SX671P
					Light-ON	Dark-ON	EE-SX671A	EE-SX671R
T-shaped slot center: 7mm					Dark-ON	Light-ON	EE-SX672	EE-SX672P
					Light-ON	Dark-ON	EE-SX672A	EE-SX672R
Close mounting					Dark-ON	Light-ON	EE-SX673	EE-SX673P
					Light-ON	Dark-ON	EE-SX673A	EE-SX673R
					Dark-ON	Light-ON	EE-SX674	EE-SX674P
					Light-ON	Dark-ON	EE-SX674A	EE-SX674R

Ratings and Specifications

Rating and specifications		
Sensing distance		5mm (slot width)
sensing object		Opaque object, 2x0.8mm min.
Differential distance		0.025mm max.
Light source		Infrared LED (940nm)
Supply Voltage		5-24V DC $\pm 10\%$, ripple(P-P):10% max.
Current consumption		35mA max. (NPN models), 30mA max. (PNP models)
Control output		NPN open collector: 5-24V DC, 100 mA max.
		100 mA load current with a residual voltage of 0.8V max.
		40 mA load current with a residual voltage of 0.4V max.
		OFF current (leakage current): 0.5 mA max.
		PNP Open collector: 5-24V DC, 50 mA max.
		50 mA load current with a residual voltage of 1.3V max.
		OFF current(leakage current): 0.5mA max.
Response frequency		1K HZ min. (3K HZ average)
Ambient illumination		1,000 Lx max.with fluoerscent light on the surface of the receiver
Ambient temperature		Operating:-25 to 55°C, Storage:-30 to 80°C (with no icing or condensation)
Ambient humidity		Operating:5%-85%RH, Storage:5%-95%RH (with no icing or condensation)
Vibration resistance		Destruction:20-2,000HZ (peak acceleration:100m/s ²)
		1.5mm double amplitude for 2 hours each in X,Y and Z directions
Shock resistance		Destruction: acceleration of 500m/s ² , 3 times each in X,Y and Z directions
Protection degree		IEC60529 IP50
Connection method		Connector models (direct soldering possible)
		Pre-wired models (standard cable length: 1m)
Weight		Connector models:approx.3.1g, Pre-wired models: approx.18g
Meterial	Case	PBT
	Emitter and receiver cover	Polycarbonate

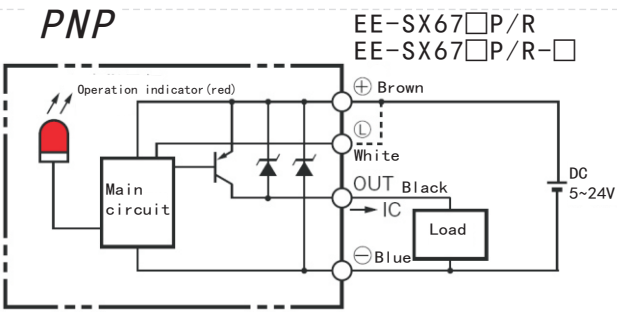
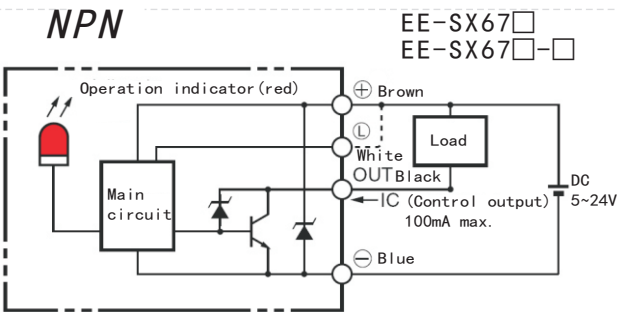
Pre-wired Models

☐ Infrared light

Appearance		Sensing method	Connection method	Sensing distance	Operation mode	Indicator mode	Model	
							NPN output	PNP output
Standard		Thru-beam in the slot	Pre-wired (1m, wire length is customizable)	 5mm (slot width)	Dark-ON/ Light-ON (adjustable)	Light-ON	EE-SX670-WR	EE-SX670P-WR
L-shaped							EE-SX671-WR	EE-SX671P-WR
T-shaped slot center : 7mm							EE-SX672-WR	EE-SX672P-WR
Close-mounting							EE-SX673-WR	EE-SX673P-WR
Close-mounting							EE-SX674-WR	EE-SX674P-WR
L-shaped slot center : 10mm							EE-SX675-WR	EE-SX675P-WR
F-shaped							EE-SX676-WR	EE-SX676P-WR
R-shaped							EE-SX677-WR	EE-SX677P-WR

- ◆ Dark-ON operation can be used, when the white wire is unconnected.
- ◆ Light-ON operation can be used, when the white wire and the brown wire are connected together.
- ◆ Do not connect the white wire and the blue wire together when using Dark-ON operation.

I/O Circuit Diagram

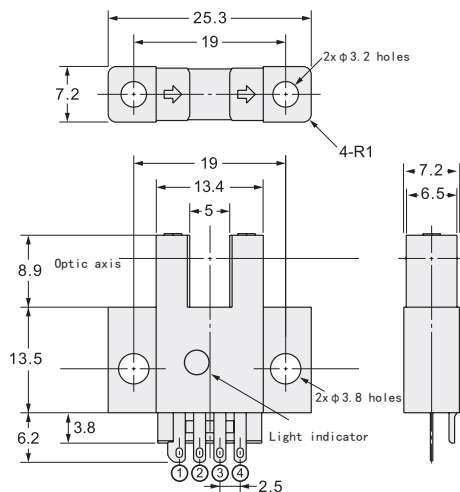


Dark-ON when the L terminal is opened, and light-ON when the L terminal and positive (+) terminal are connected.
Don't connect the L terminal to 0 V when using dark-ON operation.

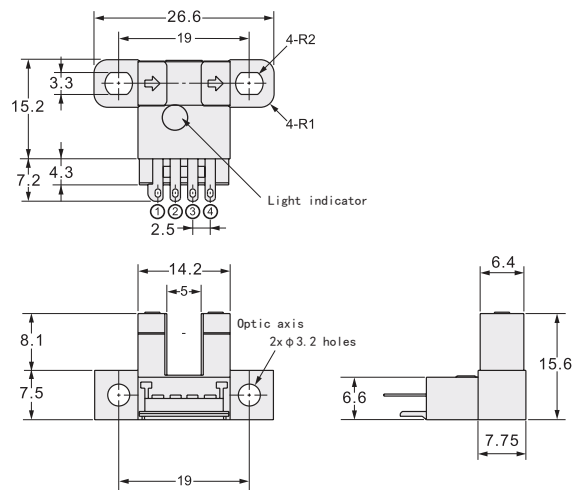
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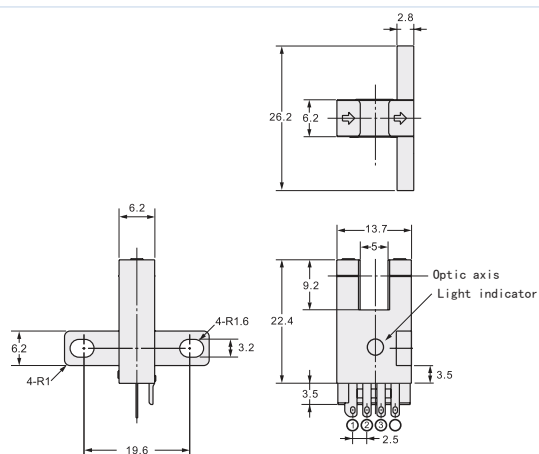
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EE-SX670A/670R



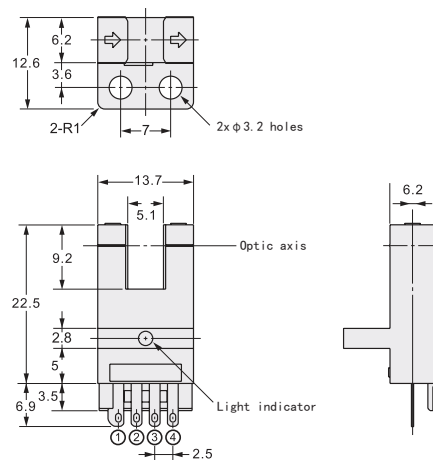
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EE-SX671A/671R



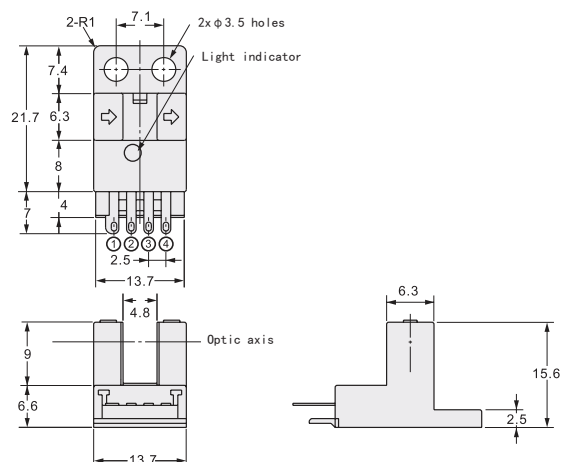
EE-SX672/672P
EE-SX672A/672R



EE-SX673/673P
EE-SX673A/673R



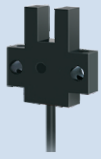
EE-SX674/674P
EE-SX674/674R



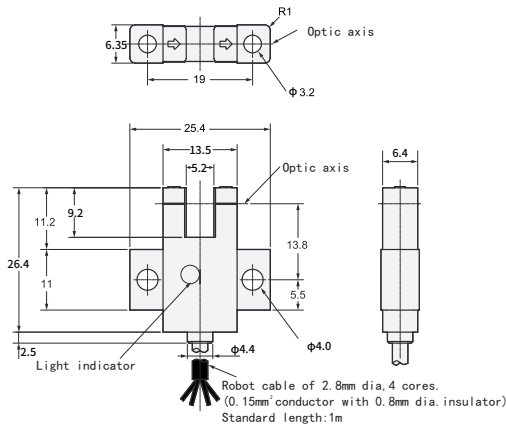
Accessories (order separately) Connector Models

Apperance	Dimensions	Cable length	Models
	16. 8x13. 0x4. 0	0m	EE-1001
	11. 6x16. 2x5. 3	2m	EE-1006

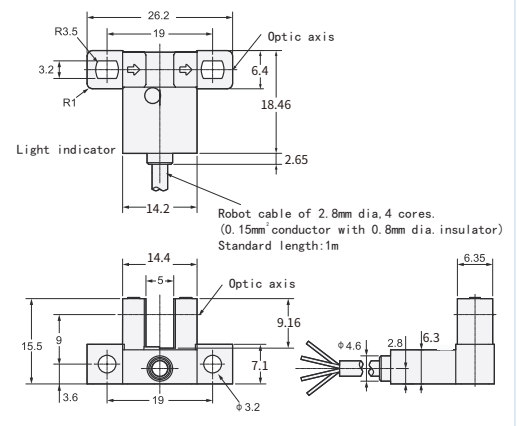
Dimensions



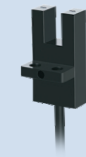
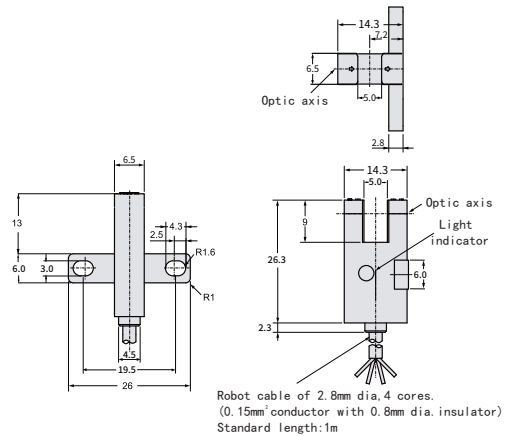
EE-SX670-WR
EE-SX670P-WR



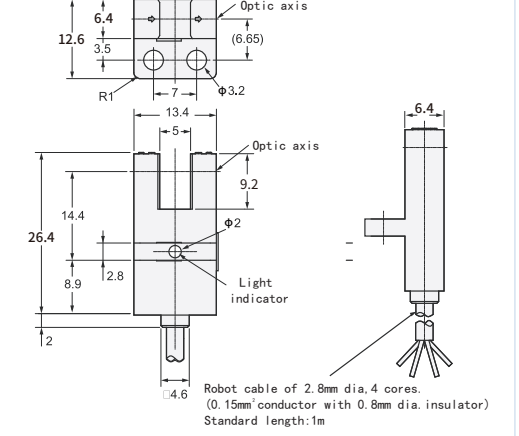
EE-SX671-WR
EE-SX671P-WR



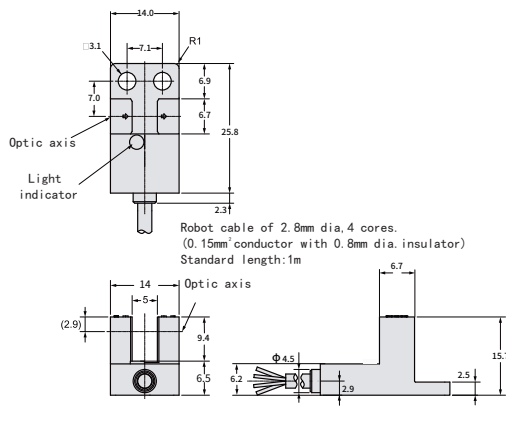
EE-SX672-WR
EE-SX672P-WR



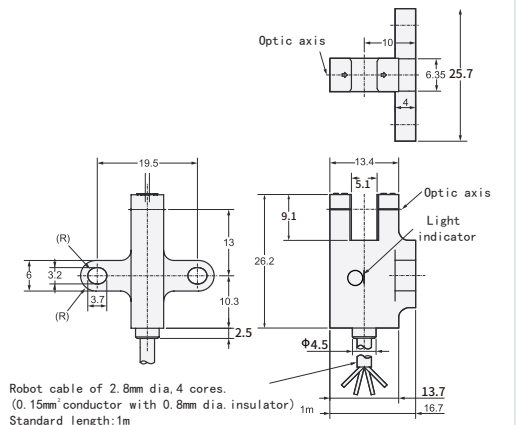
EE-SX673-WR
EE-SX673P-WR



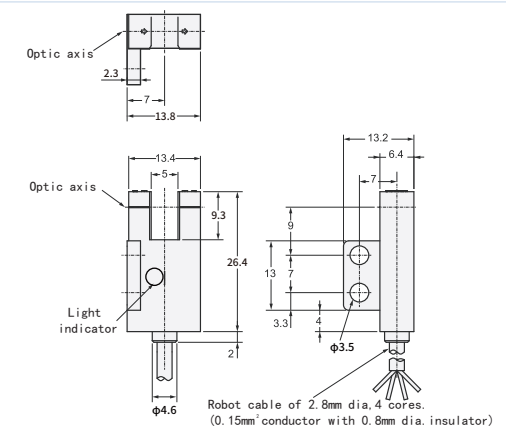
EE-SX674-WR
EE-SX674P-WR



EE-SX675-WR
EE-SX675P-WR



EE-SX676-WR
EE-SX676P-WR



EE-SX677-WR
EE-SX677P-WR

