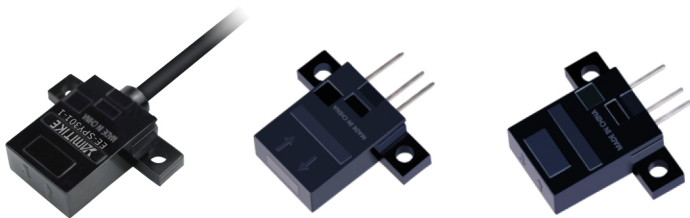
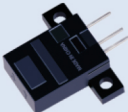
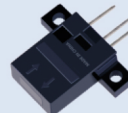


Mini Reflective photoelectric switch



EE-SPY30□/40□

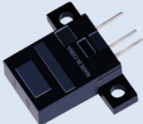
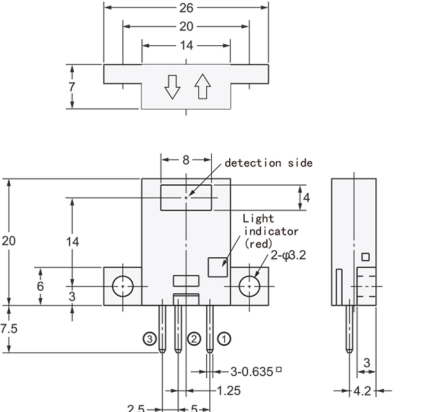
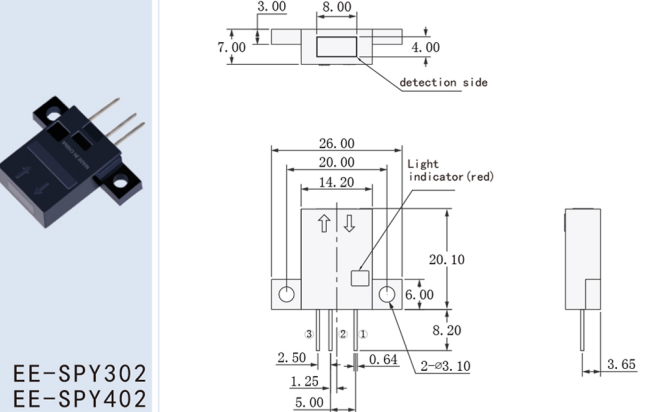
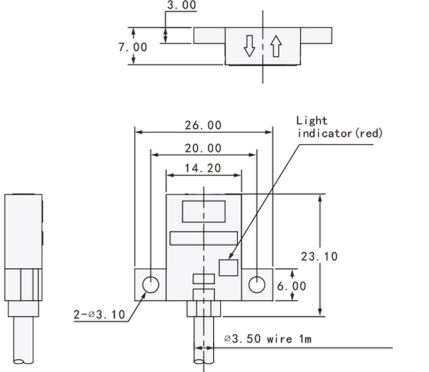
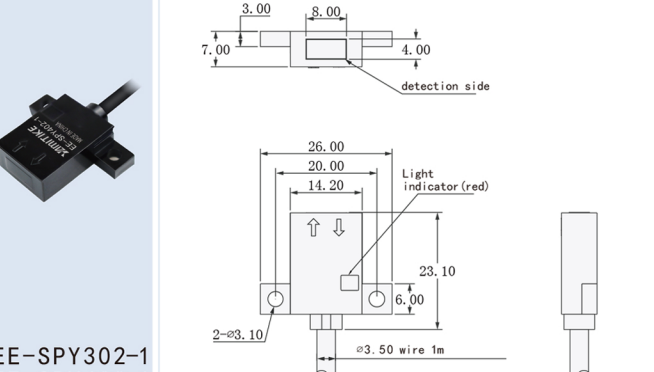
Category			□ Infrared light		
Appearance	Sensing method	Sensing distance	Output	Operation	Model
 Horizontal type	Diffuse reflective	 5mm (15-25mm customizable)	NPN	Dark-ON	EE-SPY301
 Vertical type				Light-ON	EE-SPY401
				Dark-ON	EE-SPY302
 Horizontal type				Light-ON	EE-SPY402
				Dark-ON	EE-SPY301-1
 Vertical type				Light-ON	EE-SPY401-1
				Dark-ON	EE-SPY302-1

□ Infrared light

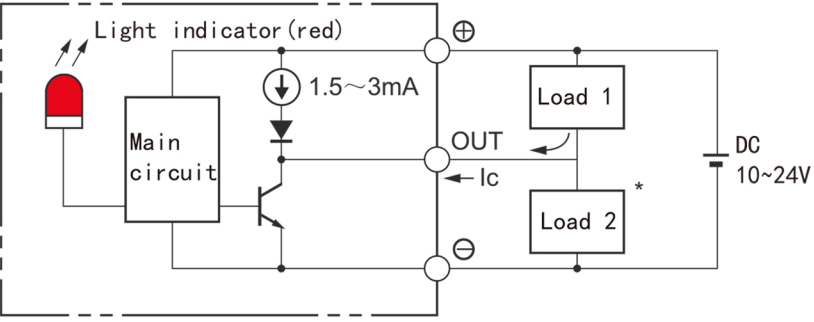
Ratings and Specifications				
Sensing method		Diffuse reflective		
Model	EE-SPY301	EE-SPY401	EE-SPY301-1	EE-SPY401-1
	EE-SPY302	EE-SPY402	EE-SPY302-1	EE-SPY402-1
Sensing distance		5mm (15X15mm, white paper), 15-25mm customizable		
Differential distance		0.2mm max.		
Light source		Infrared light (940nm)		
Light indicator		Light-ON (red)		
Supply voltage		10-24V DC $\pm 10\%$, ripple(P-P): 5% max.		
Current consumption		Average:15mA. 50mA max.		
Control output		NPN open collector: 12-24V DC, 80 mA max. OFF current (leakage current): 0.5 mA max. 80 mA load current with a residual voltage of 1V max. 10 mA load current with a residual voltage of 0.4V max.		
Response frequency		500 HZ min.		
Ambient illumination		3,000 Lx max.with incandescent lamp or sunlight 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:10-55HZ 1.5mm double amplitude each in X,Y and Z directions for 2h.		
Shock resistance		Destruction: 500m/s ² for 3 times each in X,Y and Z directions.		
Protection degree		IP50		
Connection method		Connector type:can' t be solderfe directly. connector accessory is sold seperately.	Pre-wired type (1m, wire length)	
Weight		2.6 g approx.	10.6 g approx.	
Meterial	Case	Polycarbonate		

EE-SPY30□/40□

Accessory (sold seperately)			
Type	Wire length	Model	
Connector	1m	EE-1003	

Dimensions			
Unit: mm			
 EE-SPY301 EE-SPY401			
			
 EE-SPY301-1 EE-SPY401-1			
			

I/O Circuit Diagram



* Voltage output: when the sensor is connected to a transistor circuit.