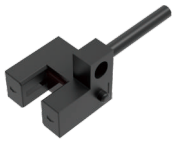
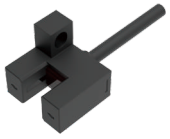
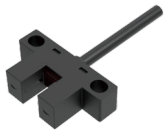
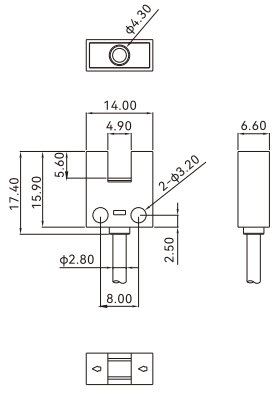
Appearance						
Shape		U shape	F shape	R shape	L shape	K shape
Sensing distance		5mm (Slot width)				
Standard sensing object		Opaque objects (Size: > 0.8*1.2mm)			Opaque objects (Size: > 1.2*1.8mm)	Opaque objects (Size: > 0.8*1.2mm)
Repeat accuracy		< 0.03mm				
Output type		NPN or PNP open-collector				
Switch type		Selectable L.on/D.on				
Indicator		Light off when objects are detected; light on when no ojects are detected				
Response frequency		3KHz				
Light source		Infrared LED (940nm)				
Operating voltage		5~24V DC				
Voltage drop		< 1V(Load current 50mA)				
Current brightness		≤8mA			≤16mA	≤8mA
Protective circuit		Surge protection , Reverse polarity protection				
Ambient brightness		Incandescent lamp< 1000 Lux				
Ambient temperature		Operation:-25℃~+55℃, Storage: -30℃~+80℃,no freezing				
Ambient humidity		Operation:5%~85%, Storage: 5%~95%, no condensation				
Withstand voltage		AC, 1000V for 1 minute, between all power connection terminals and housing				
Anti-vibration		10 to 2000 Hz with 1.5mm(Maximum acceleration 196m/s²) amplitude for 2 hours each in X, Y, and Z directions			10 to 55 Hz with 1.5mm amplitude for 2 hours each in X, Y, and Z directions	10 to 2000 Hz with 1.5mm (Maximum acceleration 196m/s²) amplitude for 2 hours each in X, Y, and Z directions
Insulation resistance		20MΩ or more between all power connection terminals and housing (based on DC250V)				
Degree of protection		IP50				
Material		ABS+PC			ABS	ABS+PC
Connection method		2M 4core cable				
Model No.	NPN	SU-201NA-W	SF-202NA-W	SR-204NA-W	SL-205NA-W (HOT)	SK-206NA-W
	PNP	SU-201PA-W	SF-202PA-W	SR-204PA-W	SL-205PA-W	SK-206PA-W

Remarks: SL-205NA/PA-W, suggest to install with small-head or non-standard M3(diameter less than 5.2mm) screws; for other models, please take regular M3 screws for mounting.

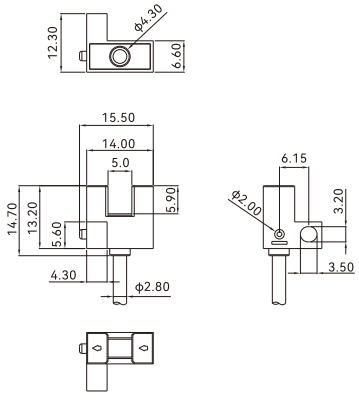
Dimensions

Unit: mm

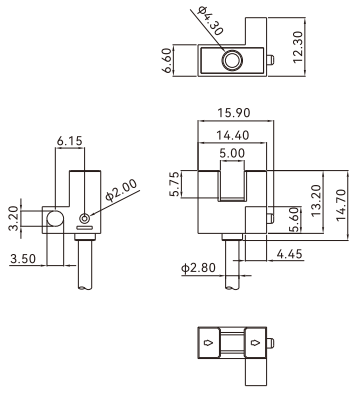
U Shape



F Shape



R Shape

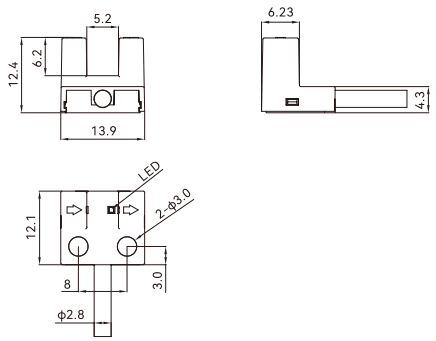


Micro Slot Type

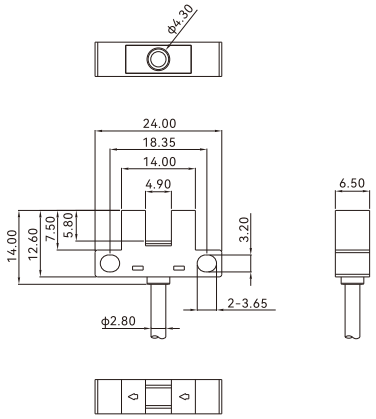
Dimensions

Unit: mm

L Shape

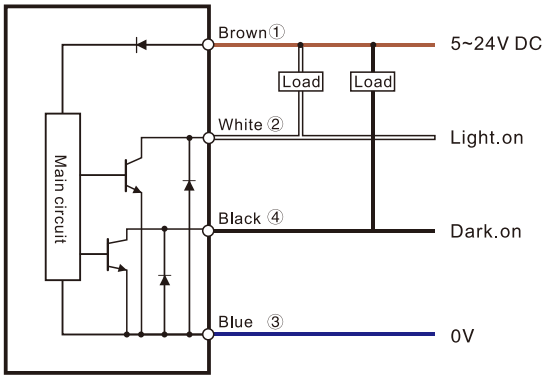


K Shape

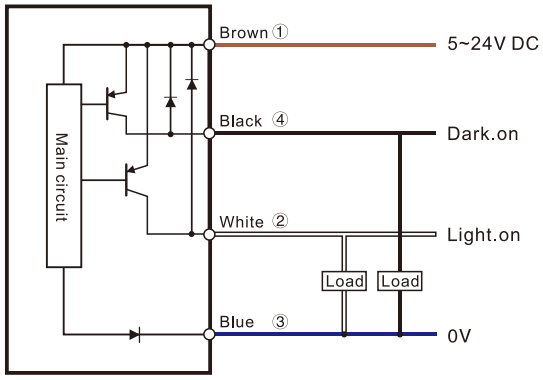


Circuit diagram

NPN



PNP



Fiber Optic
Slot Sensors
Photoelectric
Laser
Proximity
Displacement
Magnetic
Contact
Area
Ultrasonic
Vision
Code Readers
Vibration
Temperature
Accessories
Guidance
Slot type sensors
Mirco slot type
Slot type
Wide slot type
Label detection