

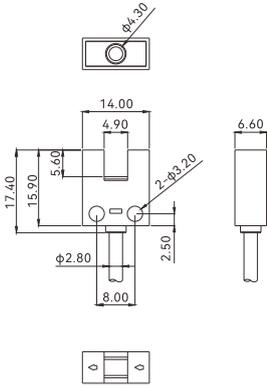
Micro Slot Type



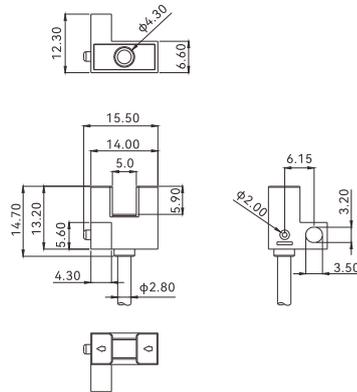
Basic Features	Working principle	Photoelectric sensor				
	Housing style	Shape U	Shape F	Shape R	Shape L	Shape K
	Optical working principle	Through-beam				
	Light source	Infrared LED, 940nm				
	Slot width	5.0mm				
	Slot depth	5.6mm	5.9mm	5.75mm	6.2mm	5.8mm
	Detecting object	1.2x1.8mm				
	Indicator light	Red LED				
Electrical data	Switching mode	L.on (light-on action)/D.on (dark-on action) switchable				
	Output mode	NPN or PNP collector open				
	Response time	0.33ms				
	Switching frequency	6.06kHz				
	Repeat accuracy	<0.03mm				
	Hysteresis	<0.2mm				
	Operating voltage	5~24V DC				
	Power consumption	≤16mA				
	Residual voltage	Below 1V (when load current is 50mA)				
	Load current	≤100mA(24VDC)				
	Insulation resistance	≥20MΩ(250VDC)				
	Withstand voltage	1000VAC (50/60Hz)				
	Protection circuit	Reverse polarity protection/short-circuit protection/surge protection				
Environmental conditions	Operating temperature	-25~55°C(no freezing)				
	Storage temperature	-30~80°C(no freezing)				
	Operating humidity	5~85%RH(no condensation)				
	Storage humidity	5~95%RH(no condensation)				
	Environmental illumination	Incandescent light ≤1000 Lux; LED light ≤1000 Lux; Sunlight ≤10000 Lux				
	Vibration resistance	10~55Hz, amplitude 1.5mm, 2 hours each in X/Y/Z axes				
	Protection rating	IP50				
Mechanical data	Connection method	2m/4-core cable				
	Dimensions	6.6x14.0x15.9mm	15.5x14.7x12.3mm	15.9x14.7x12.3mm	13.8x12.1x12.4mm	24.0x14.0x6.5mm
	Material	ABS				
	Weight	0.025kg	0.023kg		0.024kg	0.023kg
	Accessories	-				
Model	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

Note: SL-205NA/PA-W is recommended to be installed with small or non-standard M3 screws (screw head diameter less than 5.2mm); other models are recommended to be installed with general-purpose M3 screws.

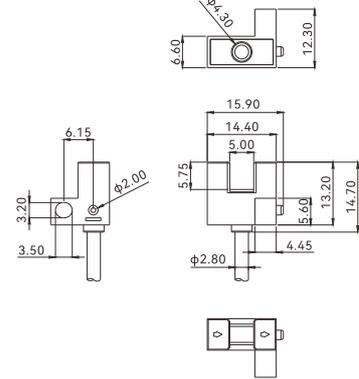
U Shape



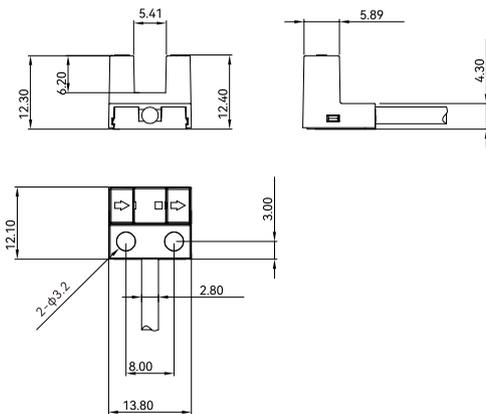
F Shape



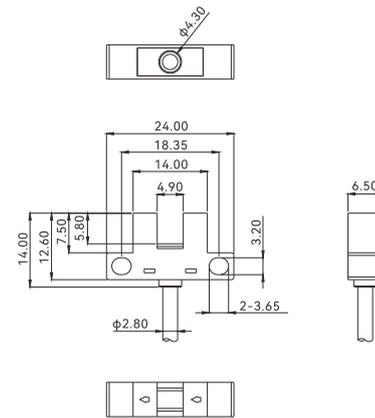
R Shape



L Shape



K Shape



- Fiber Optic
- Slot Sensors**
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic
- Contact
- Area
- Ultrasonic
- AI Image
- Code Readers
- Vibration
- Temperature
- RFID
- Safety door lock
- Pressure Switch
- Communication
- Accessories

Guidance

Slot type sensors

Micro slot type

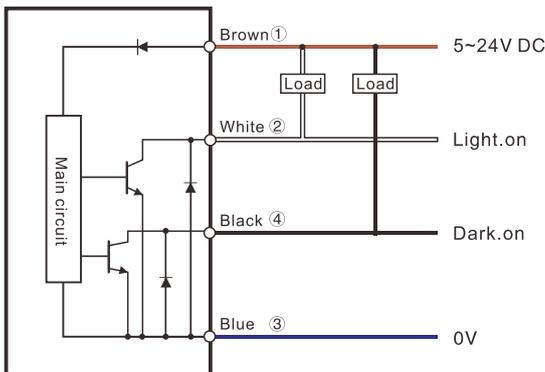
Slot type

Wide slot type

Label detection

Circuit diagram

NPN



PNP

