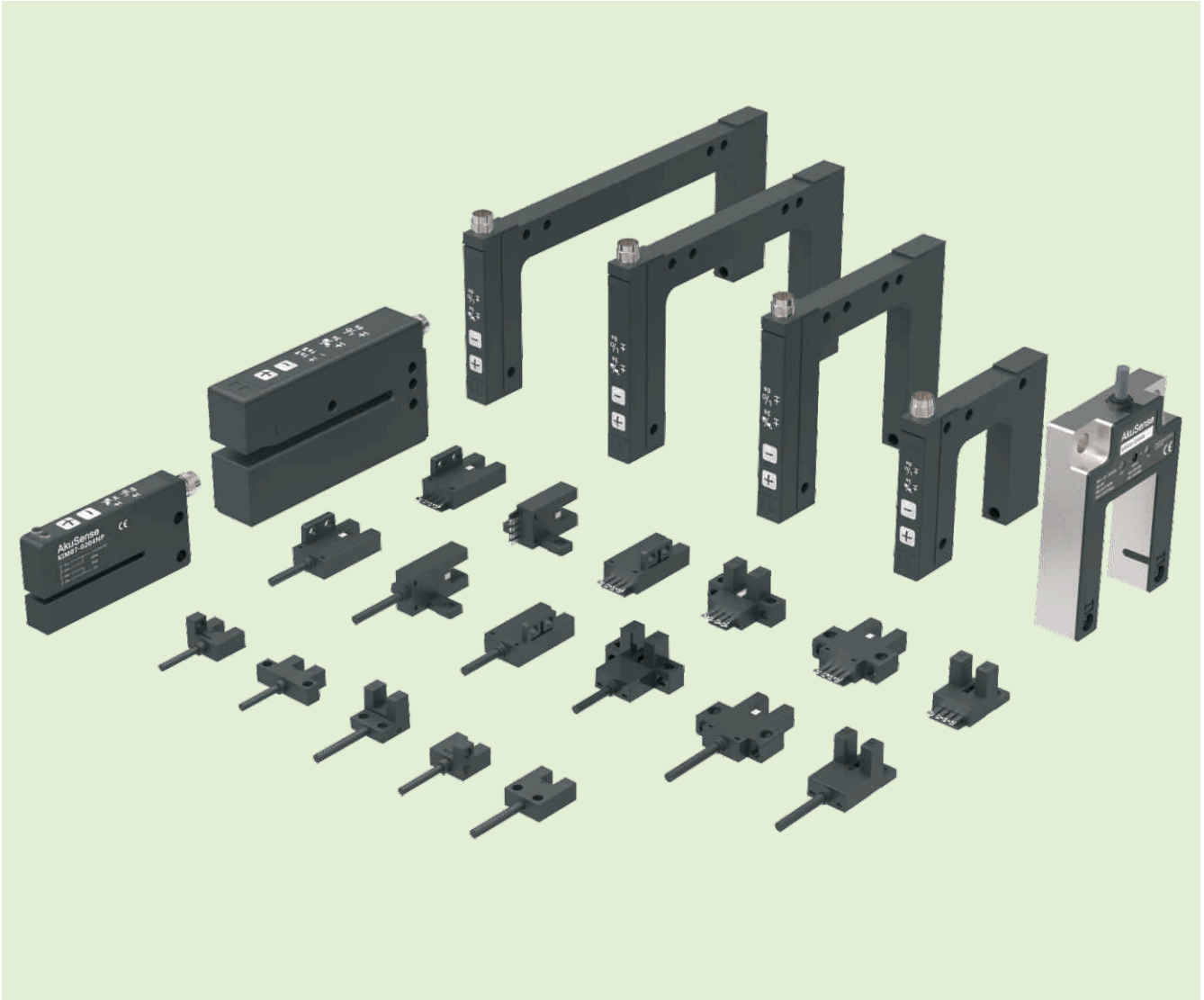


Slot Sensors



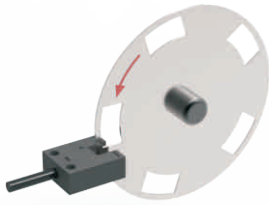
- Rich product line, slot width from 5mm to 120mm
- (Micro) slot type products can perfectly substitute the major brand products.
- Label sensor have standard teaching function, can stable detection of various types of labels
- Can be customized according to customer needs, such as oil resistance, drag chain requirements

- Fiber Optic
- Slot Sensors
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic
- Contact
- Area
- Ultrasonic
- Accelerometer
- Inclinometer
- Cables
- Tester

Guidance

Slot type sensors

- Micro slot type
- Slot type
- Wide slot type
- Label detection



NEW!

Micro slot type

- Brand new products, competitive price and good quality
- Advanced technology origins from Japan, excellent performance
- Slot width of 6.5mm (effectively prevents detected objects from hitting the bottom of the slots)

P.B-03



HOT

Slot type

- Available in wiring and connect styles, 12 styles such as F/T/R/L/K.T for option
- NO/NC output (easy connection)
- Depth of slot 8.5mm (prevents detected objects from hitting the bottom of the slot in a maximum level)

P.B-06



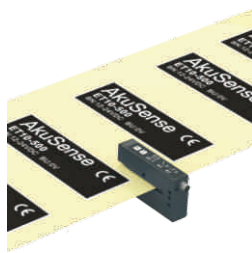
NEW!

NPN and PNP in one

Wide slot type

- NPN and PNP output are free to switch
- For different needs to provide laser and infrared light two kinds of light source
- Slot width from 30,50,80 to 120mm range

P.B-10



NEW!

Label detection type













- Can detect gaps or labels with a length of only 2mm.
- With two-point and single-point teaching function
- Have Infrared detection and ultrasonic detection

P.B-12

Micro slot type


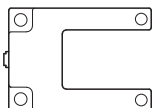
Series	Appearance	Slot width	Model number		Pages	
			NPN Normally open	PNP Normally open		
Micro slot type-4 wire		K shape	5mm	D.on/ L.on	SK-206NA-W SK-206PA-W	B-04
		L shape	5mm	D.on/ L.on	SL-205NA-W HOT SL-205PA-W	
		F shape	5mm	D.on/ L.on	SF-202NA-W SF-202PA-W	
		R shape	5mm	D.on/ L.on	SR-204NA-W SR-204PA-W	
		U shape	5mm	D.on/ L.on	SU-201NA-W SU-201PA-W	

Slot type

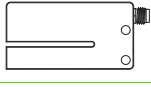
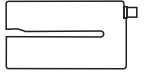
Series	Appearance	Slot width	Model number		Pages		
			When detecting objects	When not detecting objects			
Slot type—Wiring type		F shape	5mm	Light on when detected object	SF-302N-W	SF-302P-W	B-06
				Light off when detected object	SF-302NA-W	SF-302PA-W	
		T shape	5mm	Light on when detected object	ST-303N-W	ST-303P-W	
				Light off when detected object	ST-303NA-W	ST-303PA-W	
		R shape	5mm	Light on when detected object	SR-304N-W	SR-304P-W	
				Light off when detected object	SR-304NA-W	SR-304PA-W	
		L shape	5mm	Light on when detected object	SL-305N-W	SL-305P-W	
				Light off when detected object	SL-305NA-W	SL-305PA-W	
		K shape	5mm	Light on when detected object	SK-306N-W	SK-306P-W	
				Light off when detected object	SK-306NA-W	SK-306PA-W	
		Y shape	5mm	Light on when detected object	SY-307N-W	SY-307P-W	
				Light off when detected object	SY-307NA-W	SY-307PA-W	
Slot type—Connector type		F shape	5mm	Light on when detected object	SF-302N-E	SF-302P-E	B-08
				Light off when detected object	SF-302NA-E	SF-302PA-E	
		T shape	5mm	Light on when detected object	ST-303N-E	ST-303P-E	
				Light off when detected object	ST-303NA-E	ST-303PA-E	
		R shape	5mm	Light on when detected object	SR-304N-E	SR-304P-E	
				Light off when detected object	SR-304NA-E	SR-304PA-E	
		L shape	5mm	Light on when detected object	SL-305N-E	SL-305P-E	
				Light off when detected object	SL-305NA-E	SL-305PA-E	
		K shape	5mm	Light on when detected object	SK-306N-E	SK-306P-E	
				Light off when detected object	SK-306NA-E	SK-306PA-E	
		Y shape	5mm	Light on when detected object	SY-307N-E	SY-307P-E	
				Light off when detected object	SY-307NA-E	SY-307PA-E	

■ Noted: Standard 2 or 4m cable, cable length is customizable

Wide slot type

Series	Appearance	Slot width	Output mode	Model number	Pages
KLM		30mm	NPN & PNP dual output	KLM06-0304NP	B-10
		50mm		KLM06-0506NP	
		80mm		KLM06-0806NP	
		120mm		KLM06-1206NP	
KIM		30mm	NPN D.on/L.on	KIM30-0304N	B-11
		30mm	PNP D.on/L.on	KIM30-0304P	

Label detection

Series	Appearance	Slot width	Min length of label	Model number		Pages
				NPN	PNP	
KIM		3mm	2mm	KIM07-0204NP		B-12
KUM		3mm	2mm	KUM08-0307N	KUM08-0307P	B-13

NEW!



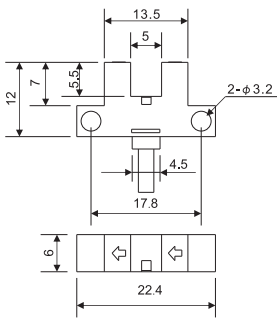
Appearance						
Shape	K shape	L shape	F shape	R shape	U shape	
Sensing distance	5mm (Slot width)					
Standard detection objects	Opaque (Size: > 1.2*1.8mm)					
Repeat accuracy	< 0.03mm					
Output type	NPN or PNP open-collector					
Switch type	Selectable L.on/D.on					
Indicator	Light off when objects are detected; light on when no objects are detected					
Response frequency	3KHz					
Light source	Infrared LED (940nm)					
Operating voltage	5~24V DC					
Voltage drop	< 1V (Load current 50mA)					
Current brightness	≤ 15mA					
Protective circuit	Surge protection, Reverse polarity protection					
Ambient brightness	< 1000 lux (Illuminated surface of incandescent lamp)					
Ambient temperature	Operation: -25°C~+55°C, Storage: -30°C~+80°C no freezing					
Ambient humidity	Operation: 5%~85%, Storage: 5%~95%, no coagulating					
Withstand voltage	AC, 1000V for 1 minute, between all power connection terminals and housing					
Anti-vibration	10~55Hz, Amplitude 1.5mm, x, y, z three directions 2 hours each					
Insulation resistance	20MΩ or more between all power connection terminals and housing (based on DC250V)					
Degree of protection	IP50					
Material	PC					
Connection	2M 4core cable					
Model No.	NPN	SK-206NA-W	SL-205NA-W HOT	SF-202NA-W	SR-204NA-W	SU-201NA-W
	PNP	SK-206PA-W	SL-205PA-W	SF-202PA-W	SR-204PA-W	SU-201PA-W

- Fiber Optic
- Slot Sensors
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic
- Contact
- Area
- Ultrasonic
- Accelerometer
- Inclinometer
- Cables
- Tester

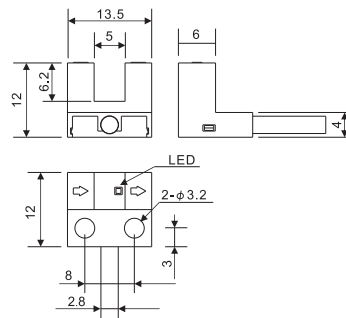
Dimensions

Unit: mm

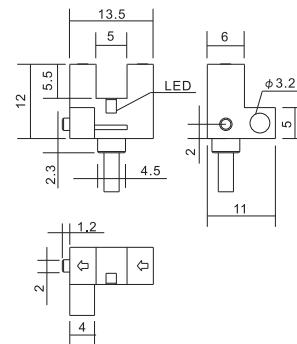
K Shape



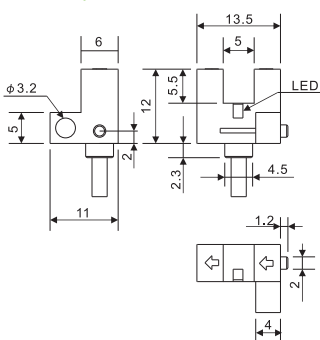
L Shape



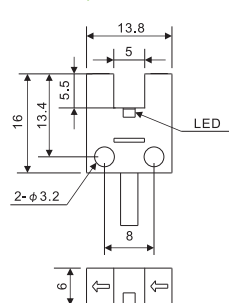
F Shape



R Shape



U Shape



Guidance

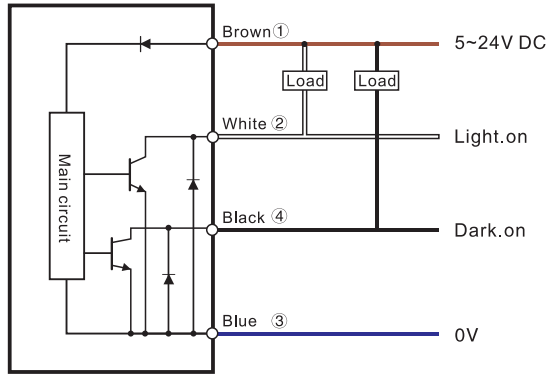
Slot type sensors

- Micro slot type
- Slot type
- Wide slot type
- Label detection

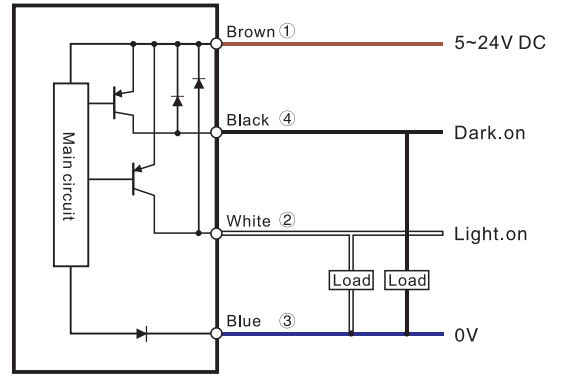
Micro slot type

Circuit diagram

NPN



PNP



Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

Accelerometer

Inclinometer

Cables

Tester

Guidance


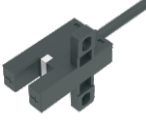



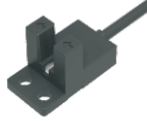
Slot type sensors

Micro slot type

Slot type

Wide slot type

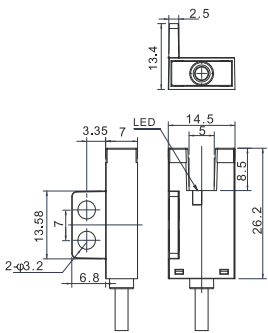
Label detection

Appearance							
Shape	F Shape	T Shape	R Shape	L Shape	K Shape	Y Shape	
Sensing distance	5mm (Slot width)						
Standard sensing objects	Opaque (Size: 1.2*1.8mm)						
Repeat accuracy	< 0.03mm						
Output type	NPN or PNP open-collector						
Switch type	Selectable L.on/D.on						
Indicator	Red LED						
Response frequency	3KHz						
Response time	≤0.3ms						
Light source	Infrared LED (940nm)						
Operating voltage	5~24V DC						
Voltage drop	< 1.5V (load current 100mA, 2m cable length)						
Current consumption	< 15mA						
Protective circuit	Surge protection, Reverse polarity protection						
Ambient temperature	Operation: -25°C~+55°C, Storage: -30°C~+80°C no freezing						
Ambient humidity	Operation: 5%~85%, Storage: 5%~95%, no coagulating						
Ambient brightness	Incandescent lamp ≤1000Lux						
Degree of protection	IP50						
Material	PC						
Connection	2M 4core cable						
NPN	Light on when objects are detected	SF-302N-W	ST-303N-W (HOT)	SR-304N-W	SL-305N-W (HOT)	SK-306N-W	SY-307N-W (HOT)
	Light off when objects are detected	SF-302NA-W	ST-303NA-W (HOT)	SR-304NA-W	SL-305NA-W (HOT)	SK-306NA-W	SY-307NA-W (HOT)
PNP	Light on when objects are detected	SF-302P-W	ST-303P-W	SR-304P-W	SL-305P-W	SK-306P-W	SY-307P-W
	Light off when objects are detected	SF-302PA-W	ST-303PA-W	SR-304PA-W	SL-305PA-W	SK-306PA-W	SY-307PA-W

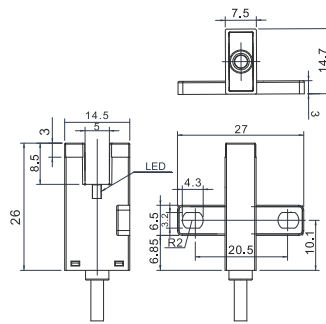
Dimensions

Unit: mm

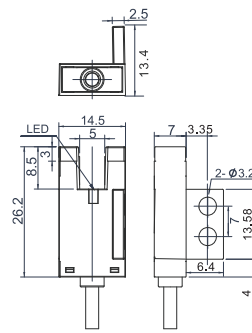
F Shape



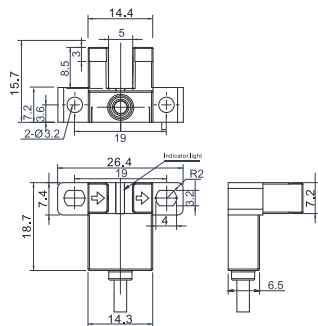
T Shape



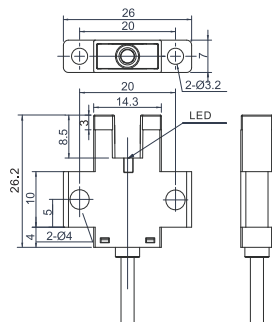
R Shape



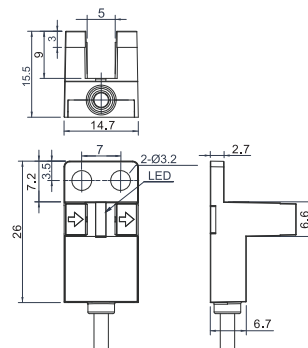
L Shape



K Shape



Y Shape



- Fiber Optic
- Slot Sensors
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic
- Contact
- Area
- Ultrasonic
- Accelerometer
- Inclinometer
- Cables
- Tester

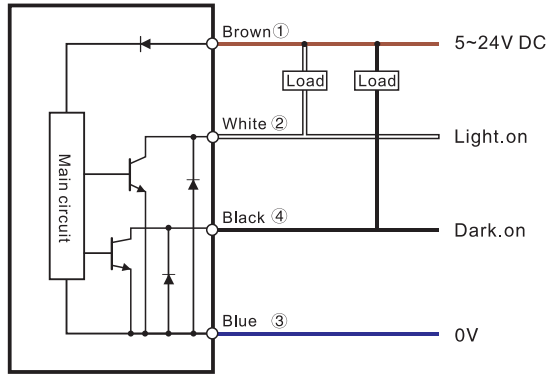
Guidance

- Slot type sensors
- Micro slot type
- Slot type
- Wide slot type
- Label detection

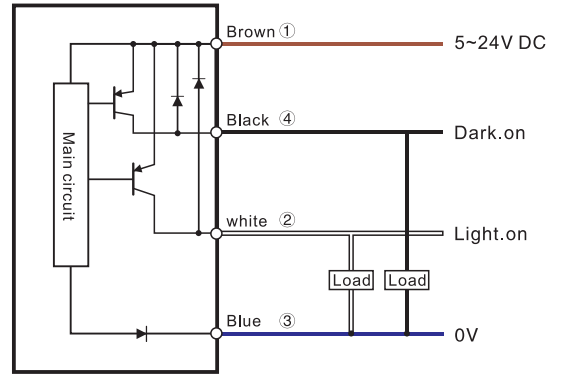
Micro slot type

Circuit diagram

NPN



PNP



Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

Accelerometer

Inclinometer

Cables

Tester

Guidance






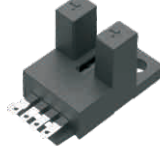
Slot type sensors

Mirco slot type

Slot type

Wide slot type

Label detection

Appearance							
Shape	F Shape	T Shape	R Shape	L Shape	K Shape	Y Shape	
Sensing distance	5mm (Slot width)						
Standard sensing objects	Opaque (Size:1.2*1.8mm)						
Repeat accuracy	< 0.03mm						
Output type	NPN or PNP open-collector						
Switch type	Selectable L.on/D.on						
Indicator	Red LED						
Response frequency	3KHz						
Response time	≤0.3ms						
Light source	Infrared LED(950nm)						
Operating voltage	5~24V DC						
Voltage drop	0.2V or less (load current 10mA), 1.5V or less (load current 100mA)						
Current consumption	<15mA					<20mA	
Protective circuit	Surge protection , Reverse polarity protection						
Ambient temperature	Operation: -25°C~+55°C, Storage: -30°C~+80°C no freezing						
Ambient humidity	Operation: 5%~85%, Storage: 5%~95%, no coagulating						
Ambient brightness	Incandescent lamp ≤1000Lux						
Degree of protection	IP50						
Material	PC						
Connection	Connector						
NPN	Light on when objects are detected	SF-302N-E	ST-303N-E HOT	SR-304N-E	SL-305N-E HOT	SK-306N-E	SY-307N-E HOT
	Light off when objects are detected	SF-302NA-E	ST-303NA-E HOT	SR-304NA-E	SL-305NA-E HOT	SK-306NA-E	SY-307NA-E HOT
PNP	Light on when objects are detected	SF-302P-E	ST-303P-E	SR-304P-E	SL-305P-E	SK-306P-E	SY-307P-E
	Light off when objects are detected	SF-302PA-E	ST-303PA-E	SR-304PA-E	SL-305PA-E	SK-306PA-E	SY-307PA-E

- Fiber Optic
- Slot Sensors
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic
- Contact
- Area
- Ultrasonic
- Accelerometer
- Inclinometer
- Cables
- Tester

Guidance

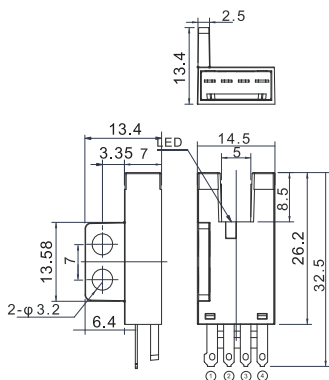
Slot type sensors

- Micro slot type
- Slot type
- Wide slot type
- Label detection

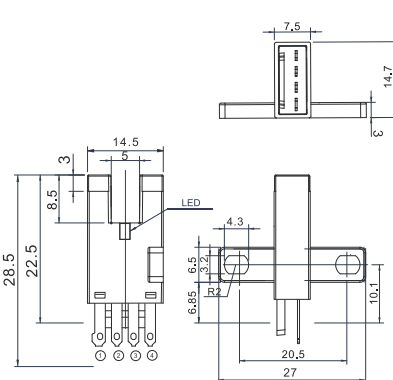
Dimensions

Unit: mm

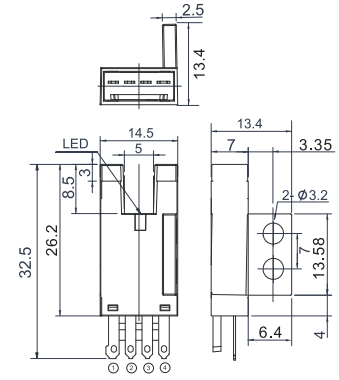
F Shape



T Shape



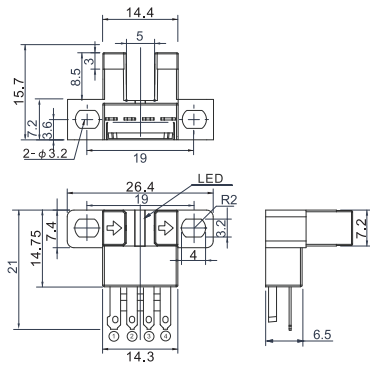
R Shape



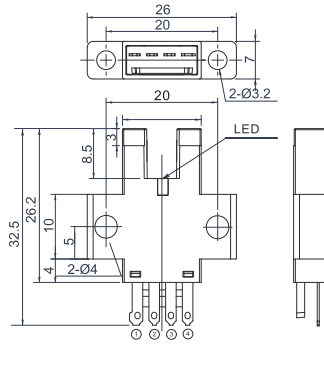
Micro slot type

Circuit diagram

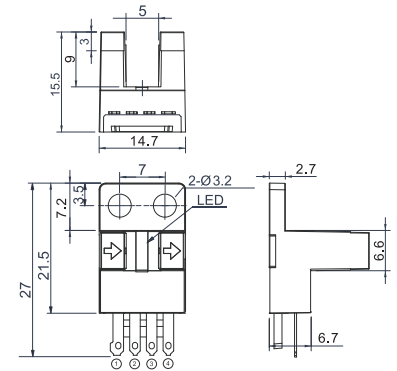
L Shape



K Shape

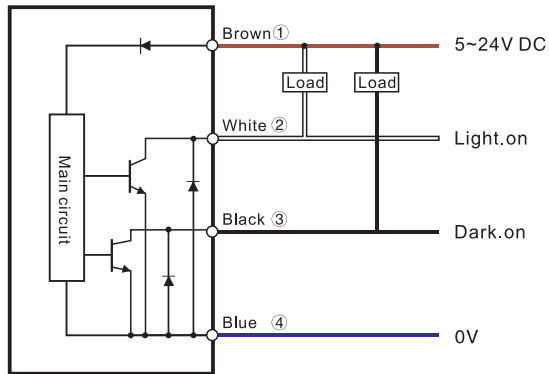


Y Shape

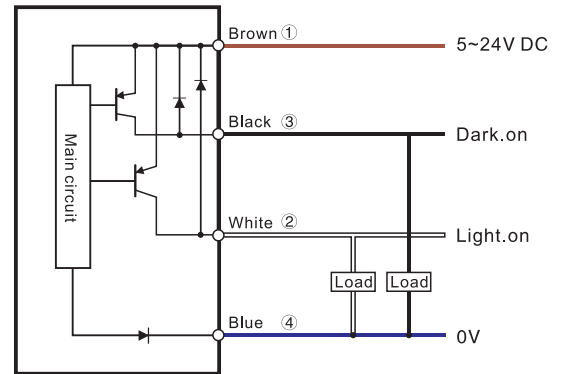


Circuit diagram

NPN



PNP



- Fiber Optic
- Slot Sensors
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic
- Contact
- Area
- Ultrasonic
- Accelerometer
- Inclinometer
- Cables
- Tester

Guidance

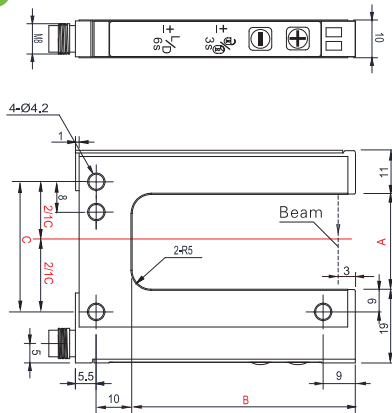
- Slot type sensors
- Micro slot type
- Slot type
- Wide slot type
- Label detection



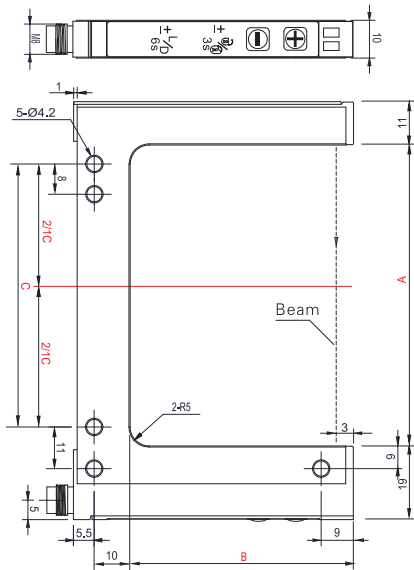
Appearance

Slot depth	42mm	59mm	59mm	59mm
Slot width	30mm	50mm	80mm	120mm
Sensing distance	30mm	50mm	80mm	120mm
Diameter of the min detector	0.05mm			
Output mode	NPN & PNP dual output			
Switch mode	Selectable L.on/D.on			
Light source	Laser (670nm) modulated light, class1			
Ambient brightness	≤10000Lux			
Operating voltage	12~24V DC ± 10%			
No-load current	40mA			
Load current	100mA			
Residual voltage	< 2V@1L=100mA			
Response frequency	10KHz			
Protective circuit	Reverse polarity protection, Output short circuit protection, Interference suppression			
Ambient temperature	-20~+50°C			
Storage temperature	-30~+80°C			
Protection of degree	IP65			
Shell material	Al, glass			
Connection	M8 4pin connector			
Weight	55g to 128g			
Model No.	KLM06-0304NP	KLM06-0506NP	KLM06-0806NP	KLM06-1206NP

Dimensions



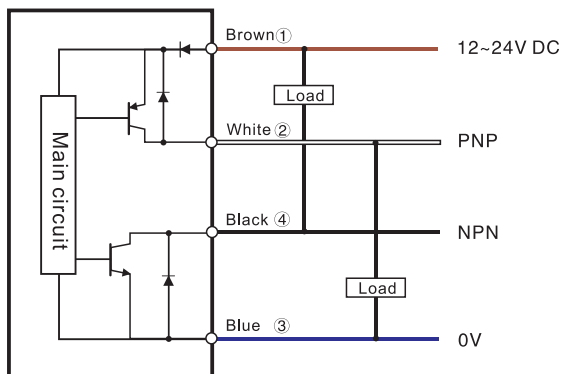
Model number	A	B	C
KLM06-0304NP	30	42	42



Model number	A	B	C
KLM06-0506NP	50	59	40
KLM06-0806NP	80	59	70
KLM06-1206NP	120	50	110

Circuit diagram

NPN/PNP



Unit: mm

- Fiber Optic
- Slot Sensors**
- Photoelectric
- Laser
- Proximity
- Displacement
- Magnetic
- Contact
- Area
- Ultrasonic
- Accelerometer
- Inclinometer
- Cables
- Tester

Guidance

- Slot type sensors
- Micro slot type
- Slot type
- Wide slot type**
- Label detection

Wide slot type

KIM Series

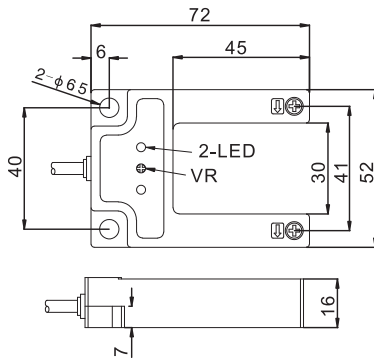


NEW!

Appearance	
Detection method	Thru-beam
Detection distance	30mm
Output mode	NPN and PNP open connector
Switch mode	Selectable L.on/D.on
Standard test object	opaque body above dia 2mm
Output instructions	Yellow LED
Response time	≤1ms
Light source	Infrared LED (modulation)
Operating voltage	12~24V DC
Residual voltage	≤2.5V DC
Current consumption	≤15mA
Load current	≤200mA
Protective circuit	Reverse polarity protection, short circuit protection
Ambient temperature	-15°C~+55°C
Withstand voltage	1000V/AC 50/60Hz 1 minute
Shock resistance	10~50Hz amplitude, 1.5mm, 2 hours in XYZ
Impact resistance	500m/s ² (50G), 3 times in XYZ direction
Dielectric strength	≥50MΩ/500V DC
Protection degree	IP60
Material	Aluminum alloy
Connection	2M 4core cable
Model No.	NPN D.on/L.on KIM30-0304N PNP D.on/L.on KIM30-0304P

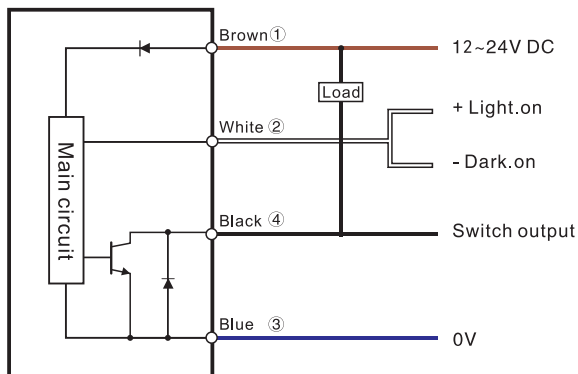
Dimensions

Unit: mm

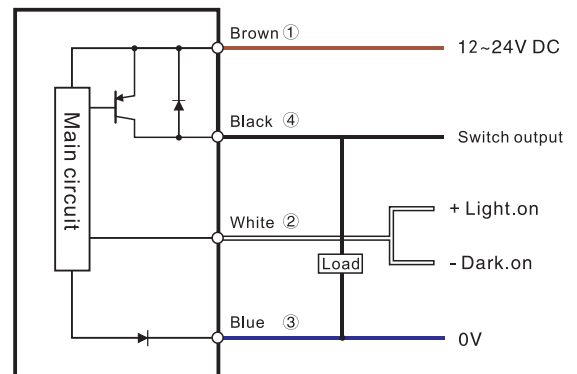


Circuit diagram

NPN



PNP





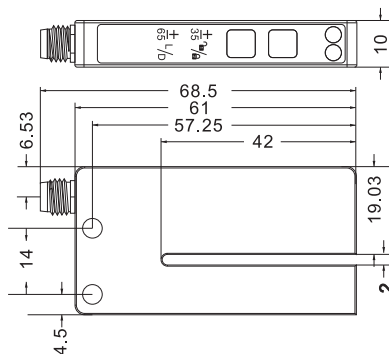
NEW!

Appearance

Detection distance	3mm
Slot depth	42mm
Slot width	3mm
Light source	Infrared light (940nm)
Switch mode	Selectable L.on, D.on
Operating voltage	12~24V DC \pm 10%
No-load current	40mA
Load current	100mA
Response frequency	10KHz
Response time	\leq 20us
Protective circuit	Reverse polarity protection, Output short circuit protection, interference suppression
Protection degree	IP65
Material	Aluminum
Wiring	M8 4-pin plug
Weight	35g
Output method	NPN/PNP
Ambient brightness	Sunlight \leq 10000Lux
Model No.	KIM07-0204NP

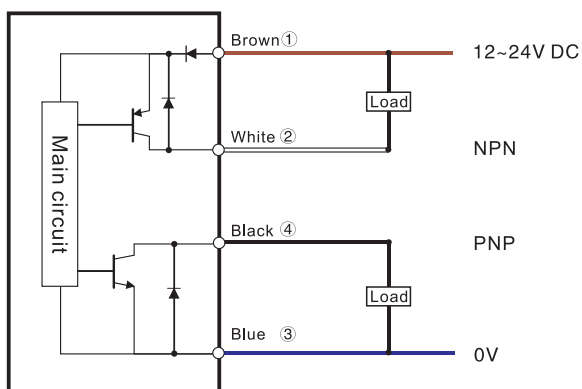
Dimensions

Unit: mm



Circuit diagram

NPN/PNP



Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

Accelerometer

Inclinometer

Cables

Tester

Guidance

Slot type sensors

Micro slot type

Slot type

Wide slot type

Label detection

Label detection

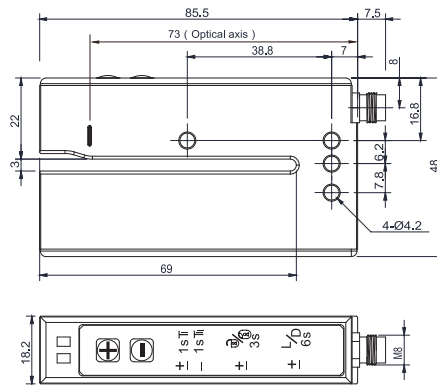
KUM Series



Appearance

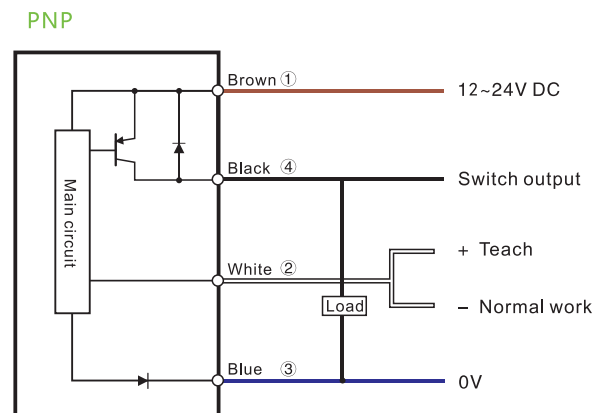
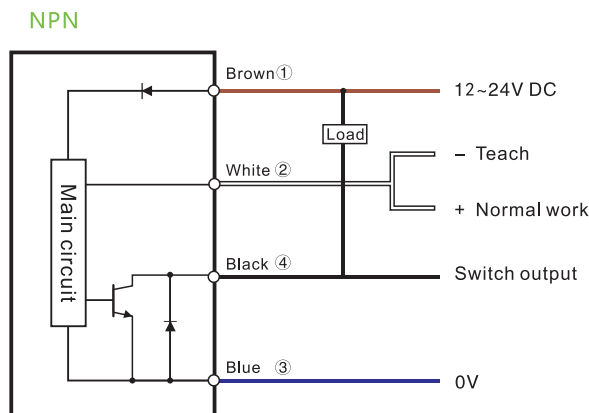
Sending distance	3mm
Min length of label	2mm
Min gap of label	2mm
Slot depth	69mm
Slot width	3mm
Launcher	Ultrasonic
Max detection speed	180m/min
Repeat accuracy	+/-0.20mm(120m/min)
Switch mode	Selectable L.on,D.on
Operating voltage	12~24V DC ± 10%
No-load current	45mA
Load current	100mA
Residual voltage	< 2V@1L=100mA
Response frequency	1500Hz
Response time	300 μs
Protection circuit	Output short circuit protection, interference suppression
Operating temperature	-5~+55°C
Storage temperature	-20~+70°C
Protection degree	IP65
Shell material	Aluminum
Connection	M8 4-pin plug
Weight	130g
Mode	NPN KUM08-0307N
	PNP KUM08-0307P

Dimensions



Unit: mm

Circuit diagram



Fiber Optic

Slot Sensors

Photoelectric

Laser

Proximity

Displacement

Magnetic

Contact

Area

Ultrasonic

Accelerometer

Inclinometer

Cables

Tester

Guidance

Slot type sensors

Micro slot type

Slot type

Wide slot type

Label detection