

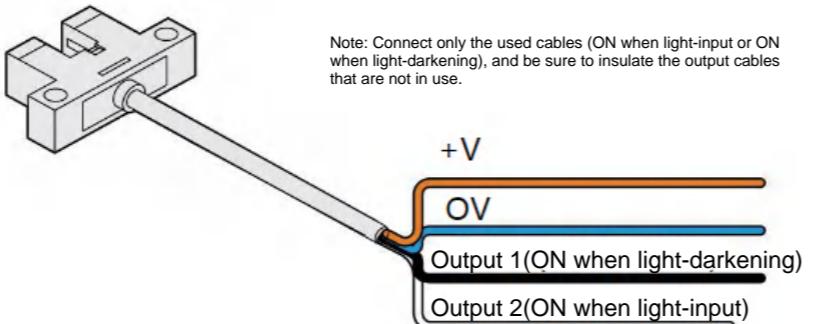
UX95 SERIES ULTRA-SMALL SLOTTED PHOTOELECTRIC SENSOR



Ultra-small slotted photoelectric sensor

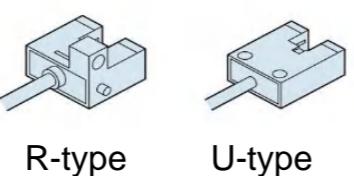
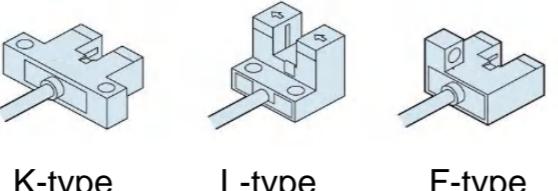
The equipment has two separate outputs

All models are equipped with two independent outputs - ON when light-input and ON when light-darkening - to cope with different output requirements depending on the place of use.



Simple connection

The simple connection type realizes quick and easy connection by eliminating all the troubles such as soldering and insulation treatment that were required in the past.



Wire lead

Comes standard with 2M flexible wire, wire length can be customized. Bend-resistant drag chain wire-GR is optional. Optional white-normally-open black-normally-closed-SX.

Wide voltage range

Power supply voltage range 5~24VDC:

High-speed response

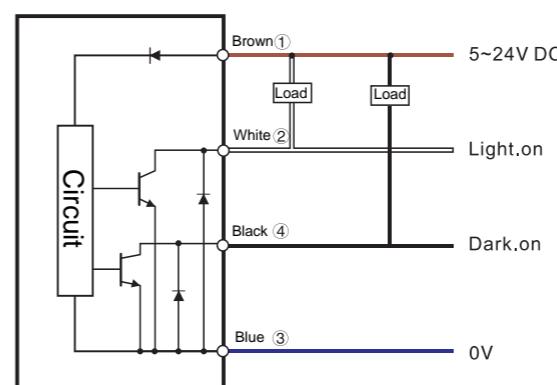
High-speed response with an answer frequency of 3KHZ.

Ultra-small slotted photoelectric sensor

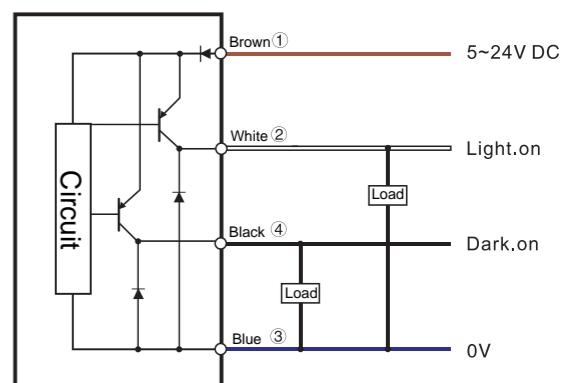
Appearance	K-type	L-type	F-type	R-type	U-type
Category					
Detection distance			5mm (slot width)		
Standardized detecting object			Opaque objects of 0.8*1.2mm or above		
Repeated accuracy			0.03mm or below		
Output mode			NPN or PNP open collector		
Switching mode			L.on(light-input action)/D.on(light-darkening action) can be switched		
Indicator light			Light off when object is detected, light on when no object is detected		
Response frequency			3 KHz		
Light source			Infrared light		
Operating voltage			5~24V DC		
Residual voltage			1V or below (at load current 100mA)		
Current consumption			8mA		
Protection circuit			Surge protection, reverse polarity protection		
Ambient light			Lighted surface luminance incandescent light: 1000lux or below		
Ambient temperature			Operating: -25 ~+55 Storing: -30 ~+80 , non-freezing		
Environmental humidity			Operating: 5%~85%RH Storage: 5%~95%RH, no condensation		
Voltage-resistant			AC,1000V for 1 minute, between all power supply connection terminals and housing		
Vibration-resistant			Frequency 10Hz~2,000Hz double-amplitude 1.5mm (Max. acceleration 196m/s ²) XYZ each direction 2 hours		
Insulation resistance			20M or above between all power connection terminals and housing (based on DC250V)		
Protection level			IP50		
Material			ABS+PC		
Wire outgoing method			2M4 core cable		
Model NPN	UX950-WR	UX951-WR	UX952-WR	UX953-WR	UX954-WR
Model PNP	UX950P-WR	UX951P-WR	UX952P-WR	UX953P-WR	UX954P-WR

Circuit

DC line 4-wire NPN output

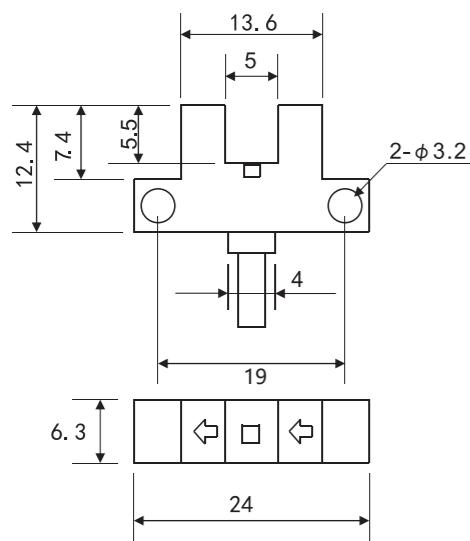


DC line 4-wire PNP output

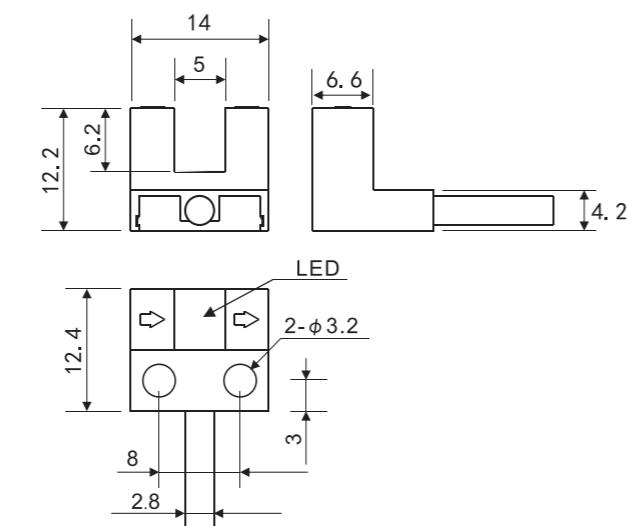


Outline dimension diagram (unit: mm)

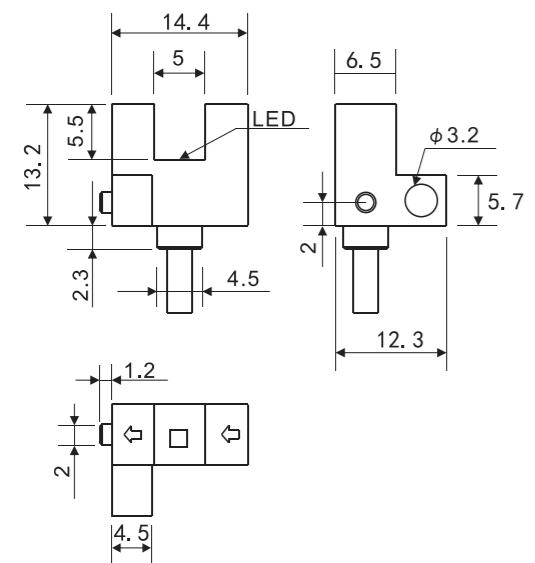
UX950-WR



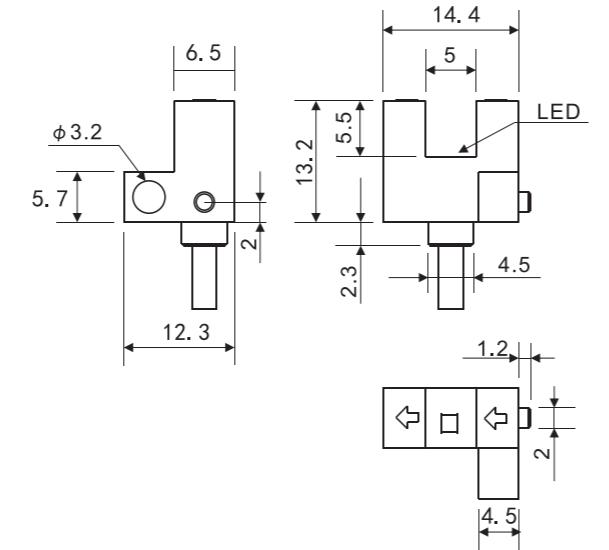
UX951-WR



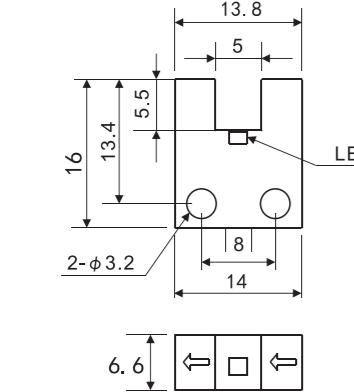
UX952-WR



UX953-WR



UX954-WR



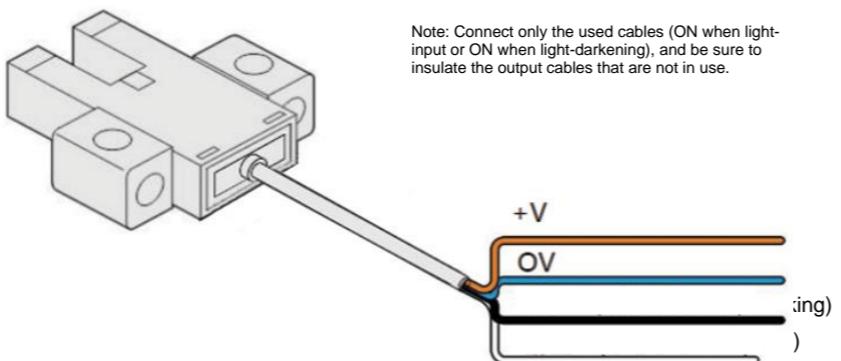
UX45 SERIES COMPACT SLOTTED PHOTOELECTRIC SENSOR



Compact slotted photoelectric sensor

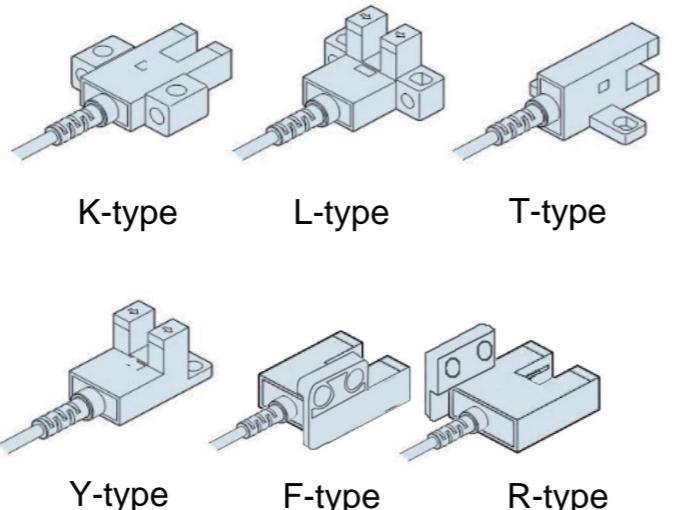
The equipment has two separate outputs

All models are equipped with two independent outputs - ON when light-input and ON when light-darkening - to cope with different output requirements depending on the place of use.



Multiple models

A wide range of up to 6 shapes is available, from which you can select the model that meets your installation conditions.



Wire lead

Comes standard with 2M flexible wire, wire length can be customized. Bend-resistant drag chain wire-GR is optional. Optional white-normally-open black-normally-closed-SX.

Wide voltage range

Power supply voltage range 5~24VDC:

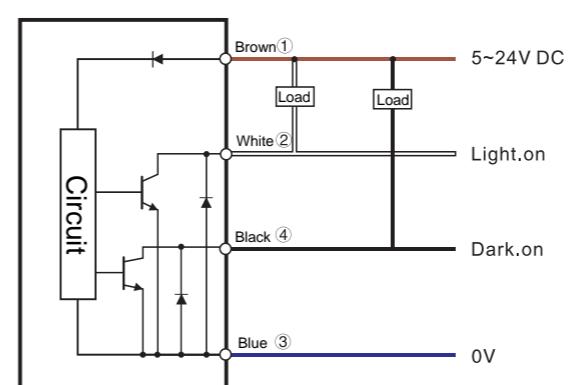
High-speed response

High-speed response with an answer frequency of 3KHZ.

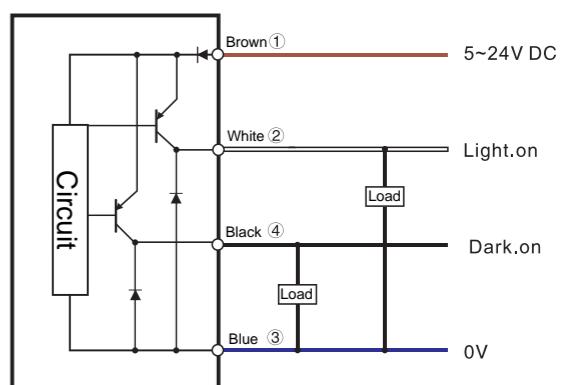
Compact slotted photoelectric sensor

Appearance	K-type	L-type	T-type	Y-type	F-type	R-type
Category	K-type	L-type	T-type	Y-type	F-type	R-type
Detection distance	5mm (slot width)					
Standardized detecting object						
Repeated accuracy	0.03mm or below					
Output mode	NPN open collector					
Switching mode	L.on(light-input action)/D.on(light-darkening action) can be switched					
Indicator light	Light off when object is detected, light on when no object is detected					
Response frequency	3 KHz					
Light source	Infrared light					
Operating voltage	5~24V DC					
Residual voltage	1V or below (at load current 100mA)					
Current consumption	8mA					
Protection circuit	Surge protection, reverse polarity protection					
Ambient light	Lighted surface luminance incandescent light: 1000lux or below					
Ambient temperature	Operating: -25 ~+55 Storing: -30 ~+80 , non-freezing					
Environmental humidity	Operating: 5%~85%RH Storage: 5%~95%RH, no condensation					
Voltage-resistant	AC,1000V for 1 minute, between all power supply connection terminals and housing					
Vibration-resistant	Frequency 10Hz~2,000Hz double-amplitude 1.5mm (Max. acceleration 196m/s ²) XYZ each direction 2 hours					
Insulation resistance	20M or above between all power connection terminals and housing (based on DC250V)					
Protection level	IP50					
Material	ABS+PC					
Wire outgoing method	2M4 core cable					
Model NPN	UXK45	UXL45	UXT45	UXY45	UXF45	UXR45
Model PNP	UXK45P	UXL45P	UXT45P	UXY45P	UXF45P	UXR45P

DC line 4-wire NPN output

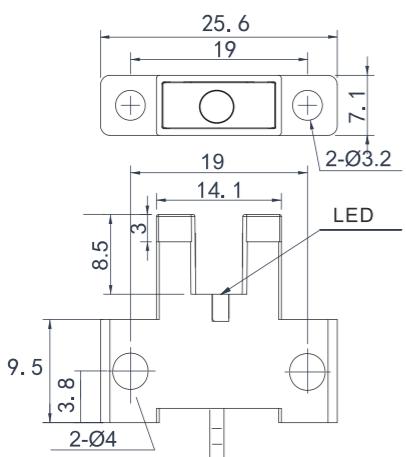


DC line 4-wire PNP output

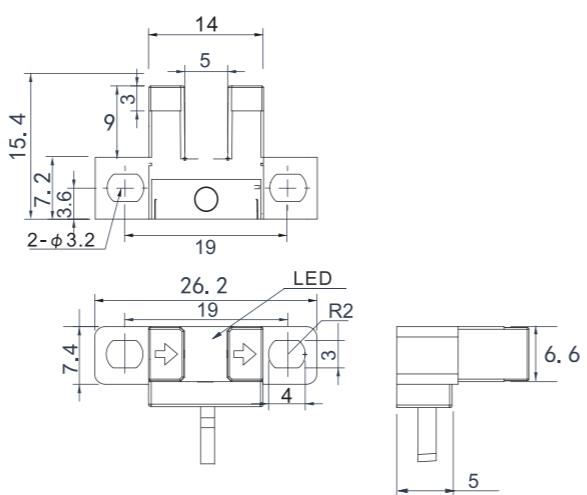


Outline dimension diagram

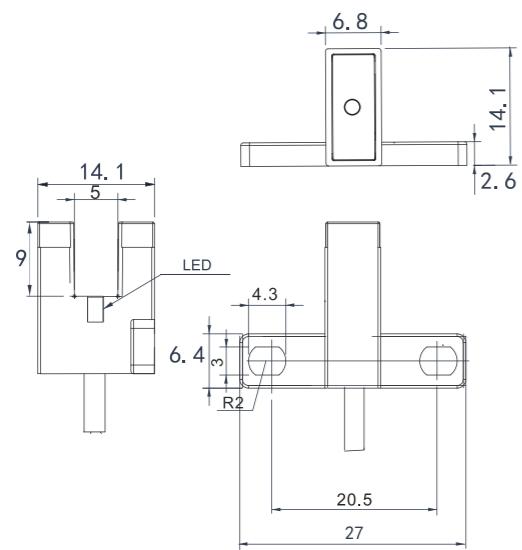
UXK45



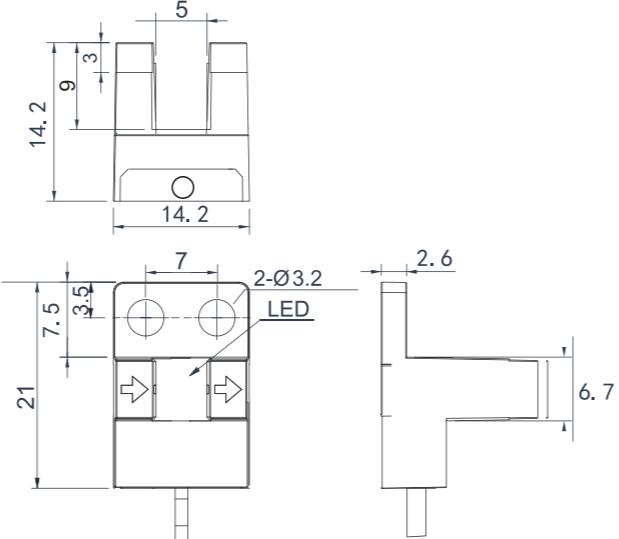
UXL45



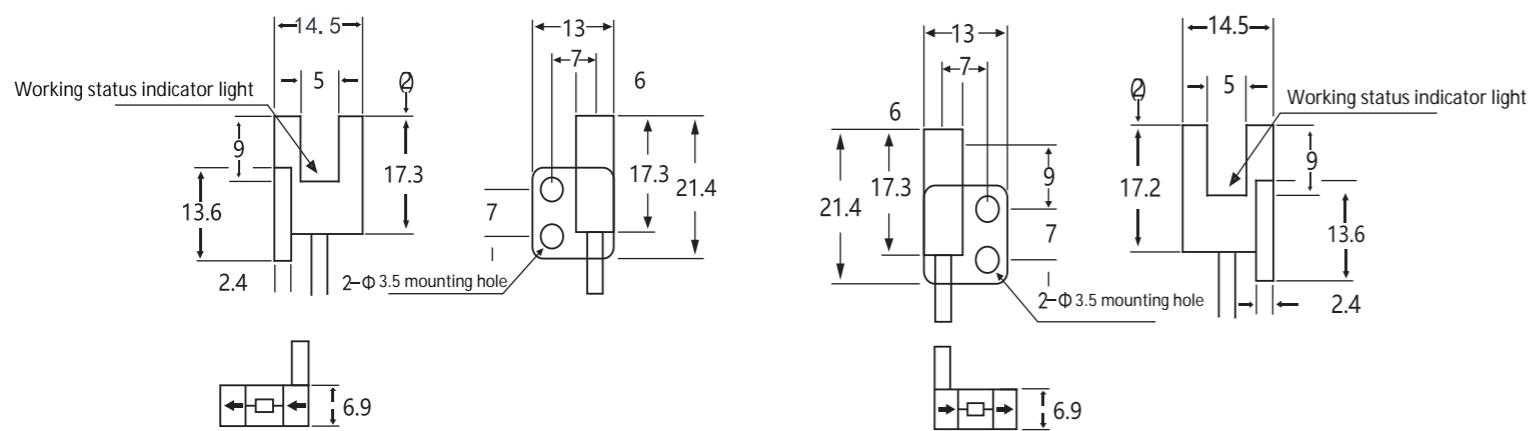
UXT45



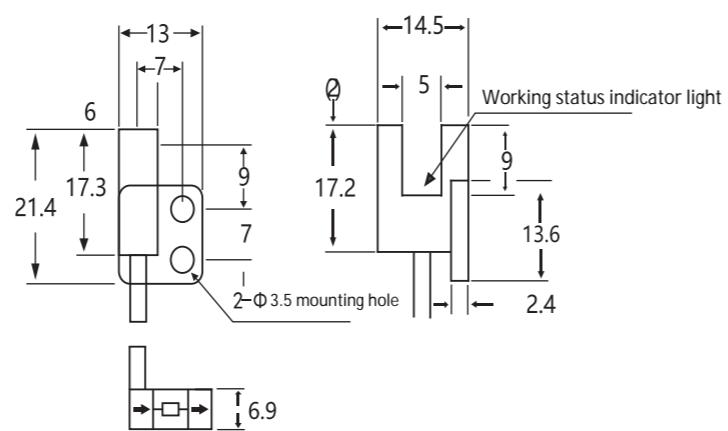
UXY45



UXF45



UXR45

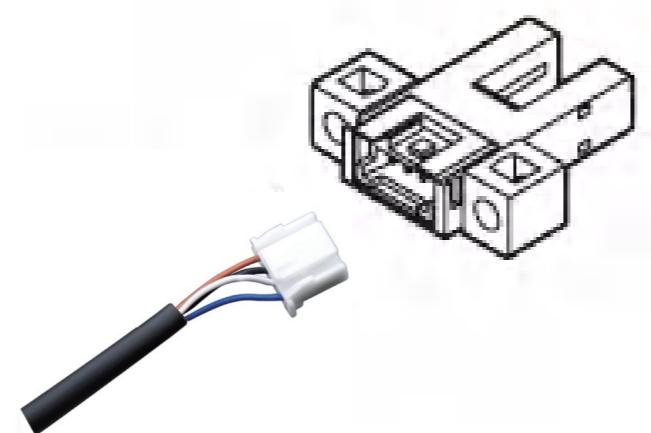


UX65 SERIES PLUG-IN SLOTTED PHOTOELECTRIC SENSOR



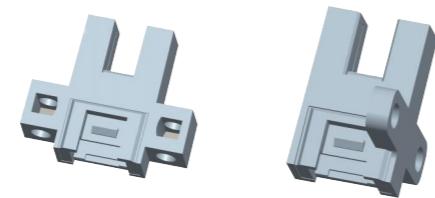
Plug-in slotted photoelectric sensor

Cable with connectors

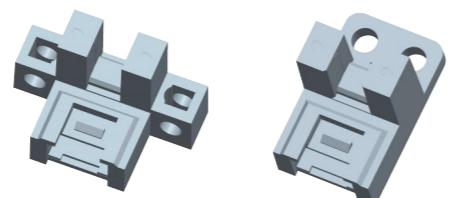


Multiple models

A wide range of up to 6 shapes is available, from which you can select the model that meets your installation conditions.



UXK65 UXT65



UXL65 UXY65

Wire lead

Optional UX1008 connection cable.
Optional UX1008-GR high flex cable.

Wide voltage range

Power supply voltage range 5~24V DC:

High-speed response

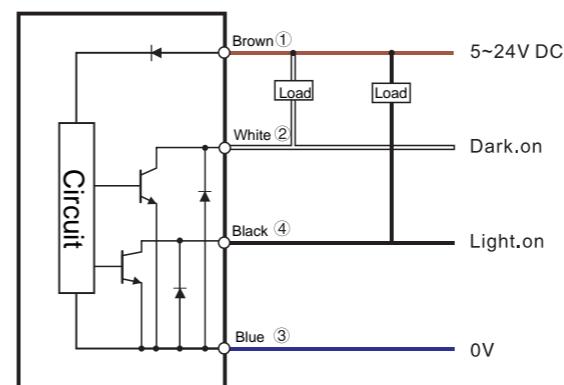
High-speed response with an answer frequency of 3KHZ.

Plug-in slotted photoelectric sensor

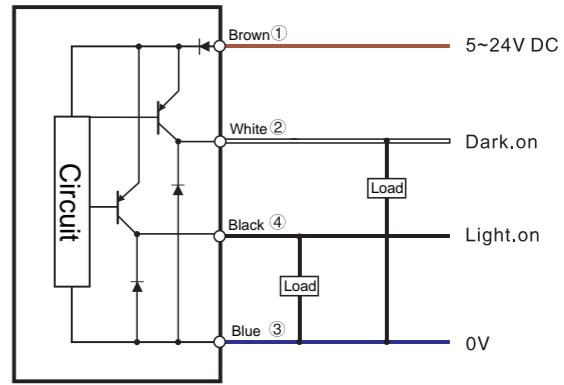
Appearance						
Category	K-type	L-type	T-type	Y-type	F-type	R-type
Detection distance				5mm (slot width)		
Standardized detecting object				0.8Mm×1.2mm opaque body		
Repeated accuracy				0.03mm or below		
Output mode				NPN open collector		
Switching mode				L.on(light-input action)/D.on(light-darkening action) can be switched		
Indicator light				Orange LED(lights up when light-input)		
Response frequency				3 KHz		
Light source				Infrared light		
Operating voltage				5V DC-24V DC±10% pulsation P-P10% or below		
Residual voltage				1V or below (at load current 100mA)		
Current consumption				8mA		
Protection structure				IP50(IEC)		
Ambient light				Lighted surface luminance incandescent light: 1000lux or below		
Ambient temperature				-25 ~+55 (caution: no condensation or icing), in storage: -30 ~+80		
Environmental humidity				5%RH-85%RH, in storage : 5%RH-95%RH		
Voltage-resistant				AC 1,000V for 1 minute between all power supply connection terminals and housing		
Vibration-resistant				Frequency 10Hz-2,000Hz double-amplitude 1.5mm (Max. acceleration 196m/s ²) XYZ each direction 2 hours		
Insulation resistance				20M or above between all power connection terminals and housing, based on DC250V megger		
Protection level				P50(IEC)		
Material				ABS+PC		
Wire outgoing method				Connector		
Model NPN	UXK65	UXL65	UXT65	UXY65	UXF65	UXR65
Model PNP	UXK65P	UXL65P	UXT65P	UXY65P	UXF65P	UXR65P

Circuit

DC line 4-wire NPN output



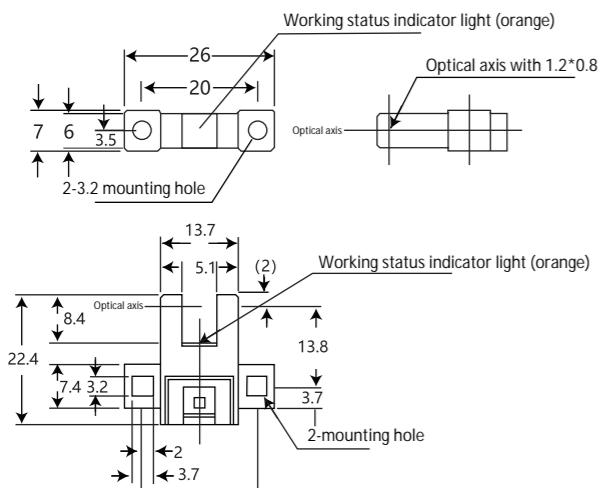
DC line 4-wire PNP output



Plug-in slotted photoelectric sensor

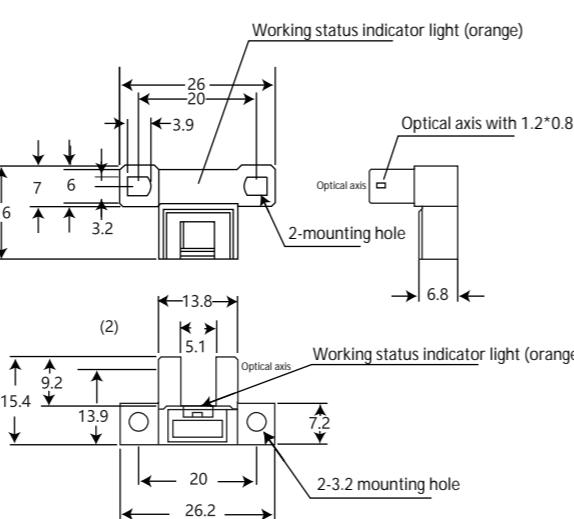
Outline dimension diagram

UXK65



Slotted sensor
Optical fiber sensor
Displacement sensor
Safety sensor
Photoelectric sensor
Proximity sensor
Specialized sensor

UXL65



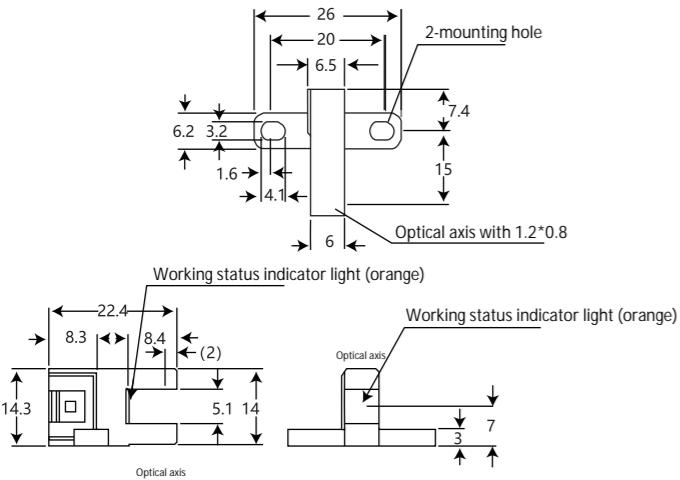
Accessories

UX1008 (default 2m, others 1m, 3m, 5m, 7m, 10m are available)

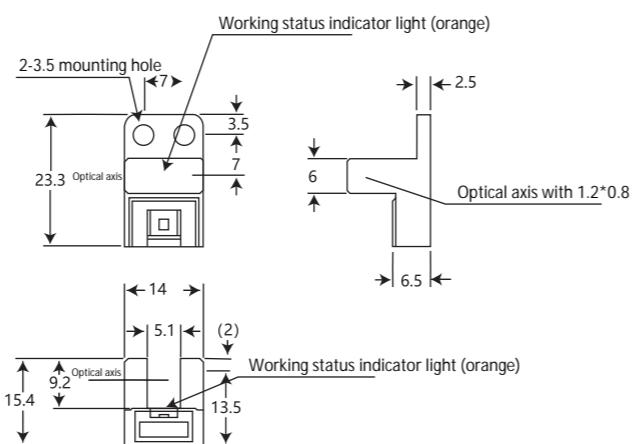
Slotted sensor

Slotted sensor
Optical fiber sensor
Displacement sensor
Safety sensor
Photoelectric sensor
Proximity sensor
Specialized sensor

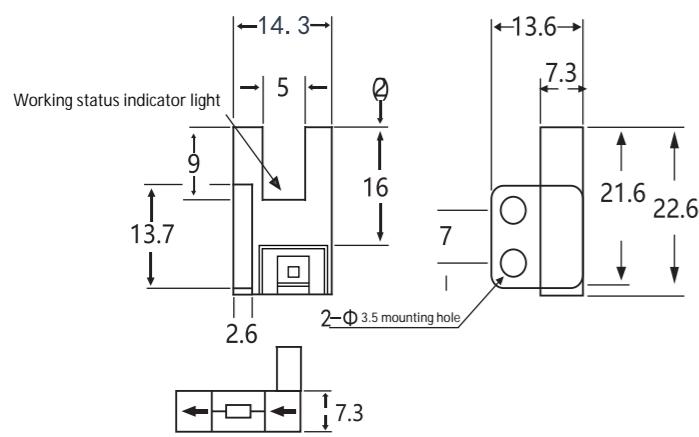
UXT65



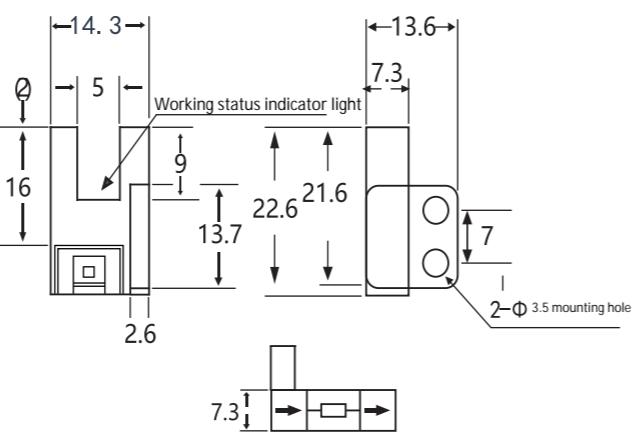
UXY65



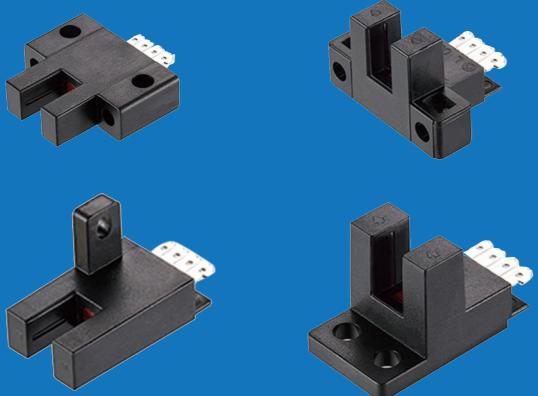
UXF65



UXR65



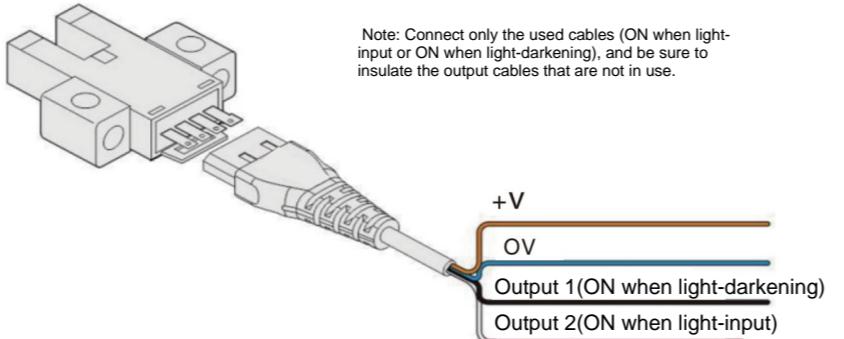
UX67 SERIES PLUG-IN SLOTTED PHOTOELECTRIC SENSOR



Plug-in slotted photoelectric sensor

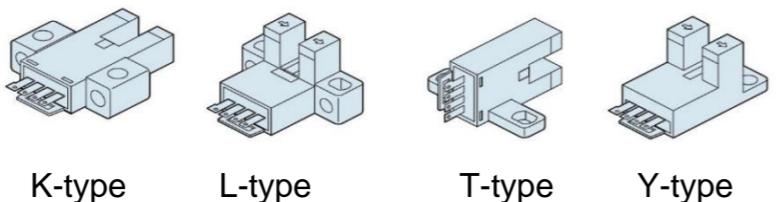
The equipment has two separate outputs

All models are equipped with two independent outputs - ON when light-input and ON when light-darkening - to cope with different output requirements depending on the place of use.



Multiple models

A wide range of up to 4 shapes is available, from which you can select the model that meets your installation conditions.



K-type

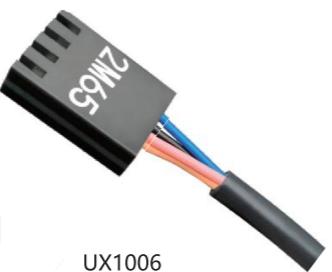
L-type

T-type

Y-type

Simple connection

The simple connection type realizes quick and easy connection by eliminating all the troubles such as soldering and insulation treatment that were required in the past. Equipped with black output, pink switching product selection-QH.



High-speed response

High-speed response with an answer frequency of 3KHZ.

Wired slotted photoelectric sensor

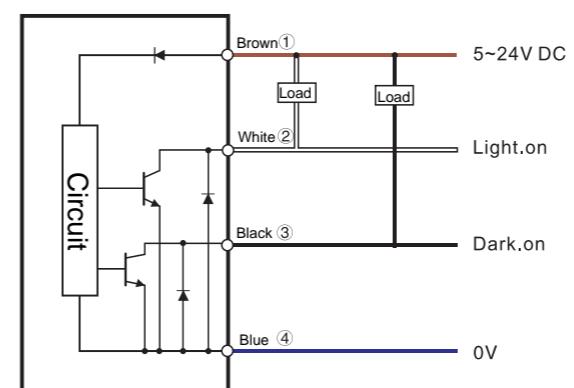
Slotted sensor

Appearance				
Category	K-type	L-type	T-type	Y-type
Detection distance		5mm (slot width)		
Standardized detecting object		Opaque objects of 0.8*1.2mm or above		
Repeated accuracy		0.03mm or below		
Output mode		NPN open collector		
Switching mode		L.on(light-input action)/D.on(light-darkening action) can be switched		
Indicator light		Light off when object is detected, light on when no object is detected		
Response frequency		3 KHz		
Light source		Infrared light		
Operating voltage		5-24V DC		
Residual voltage		1V or below (at load current 100mA)		
Current consumption		8mA		
Protection circuit		Surge protection, reverse polarity protection		
Ambient light		Lighted surface luminance incandescent light: 1000lux or below		
Ambient temperature		Operating: -25 ~+55 Storing: -30 ~+80 , non-freezing		
Environmental humidity		Operating: 5%-85%RH Storage: 5%-95%RH, no condensation		
Voltage-resistant		AC,1000V for 1 minute, between all power supply connection terminals and housing		
Vibration-resistant		Frequency 10Hz-2,000Hz double-amplitude 1.5mm (Max. acceleration 196m/s ²) XYZ each direction 2 hours		
Insulation resistance		20M or above between all power connection terminals and housing (based on DC250V)		
Protection level		IP50		
Material		ABS+PC		
Wire outgoing method		Connector		
Model NPN	UX670	UX671	UX672	UX674
Model PNP	UX670P	UX671P	UX672P	UX674P

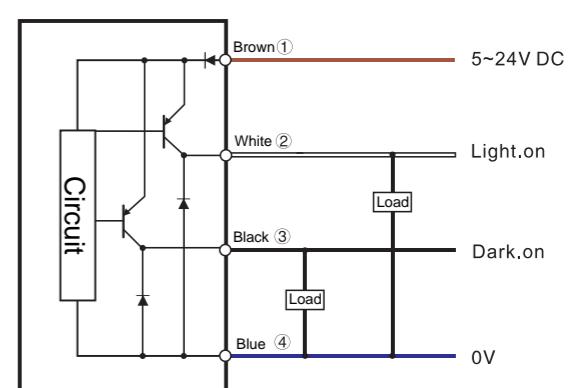
Slotted sensor
Optical fiber sensor
Displacement sensor
Safety sensor
Photoelectric sensor
Proximity sensor
Specialized sensor

Circuit

DC line 4-wire NPN output

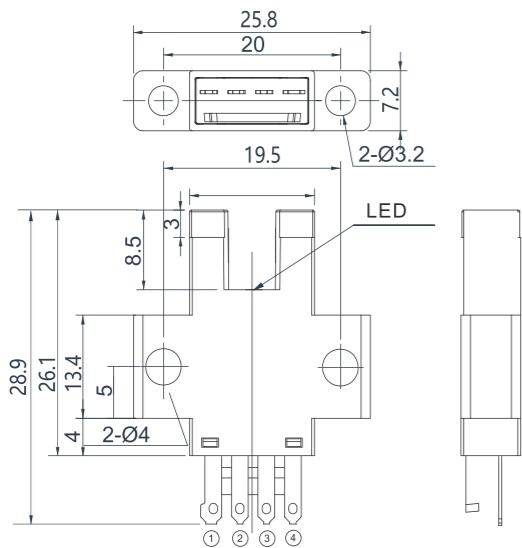


DC line 4-wire PNP output

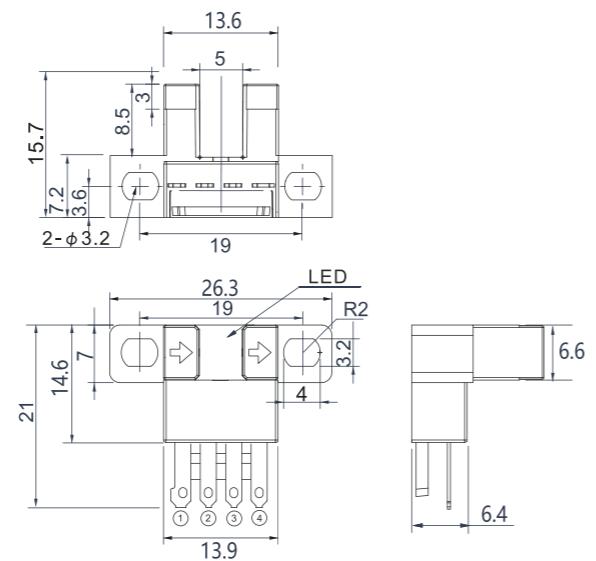


Outline dimension diagram (unit: mm)

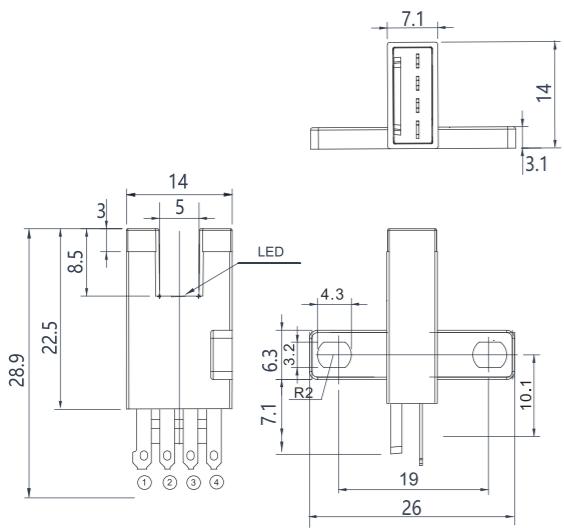
UX670



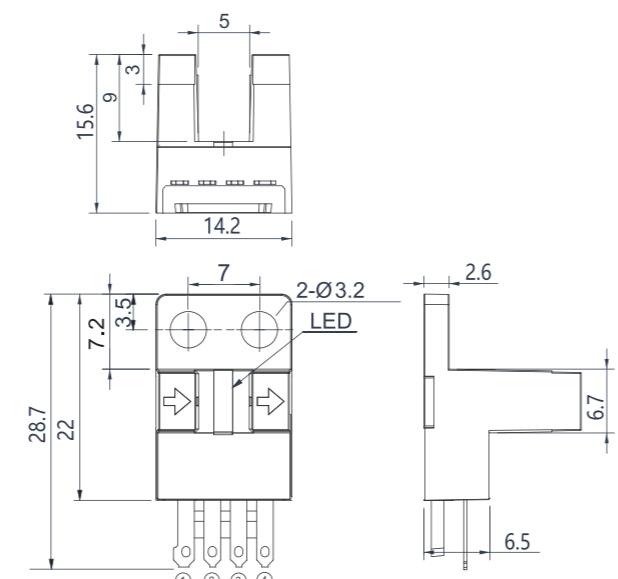
UX671



UX672



UX674



Accessories

UX1006 (default 2m, others 1m, 3m, 5m, 7m, 10m are available)

UX1010 (default 2m, others 1m, 3m, 5m, 7m, 10m are available)

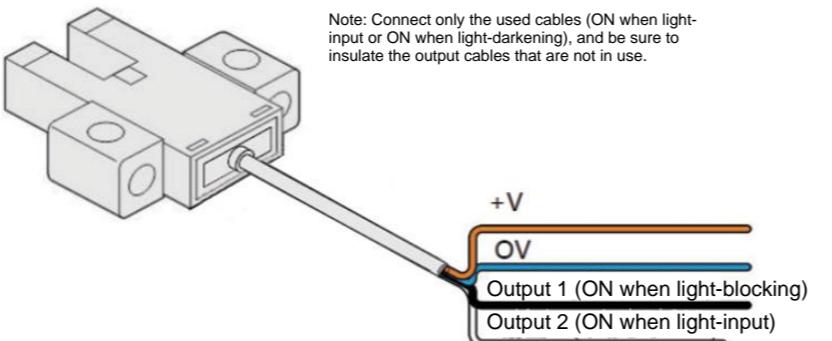
UX67-WR SERIES WIRED SLOTTED PHOTOELECTRIC SENSOR



Wired slotted photoelectric sensor

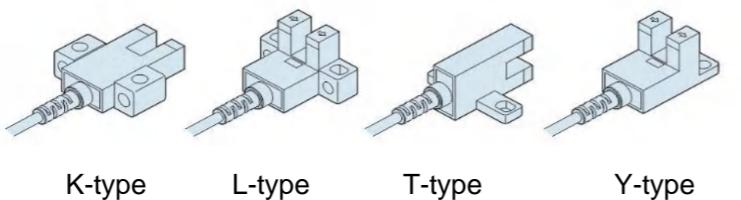
The equipment has two separate outputs

All models are equipped with two independent outputs - ON when light-input and ON when light-darkening - to cope with different output requirements depending on the place of use.



Multiple models

A wide range of up to 6 shapes is available, from which you can select the model that meets your installation conditions.



Wire lead

Comes standard with 2M flexible wire, wire length can be customized.
Bend-resistant drag chain wire-GR is optional.
Optional white-normally-open black-normally-closed-SX.

Wide voltage range

Power supply voltage range 5~24VDC:

High-speed response

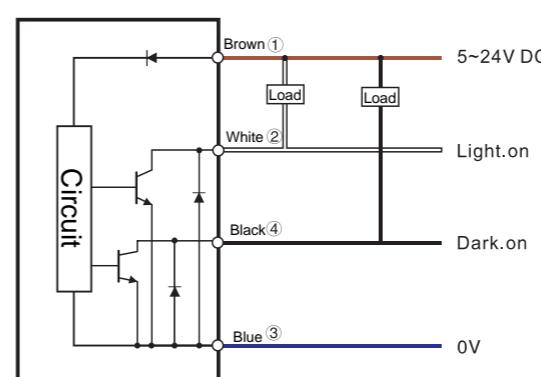
High-speed response with an answer frequency of 3KHZ.

Wired slotted photoelectric sensor

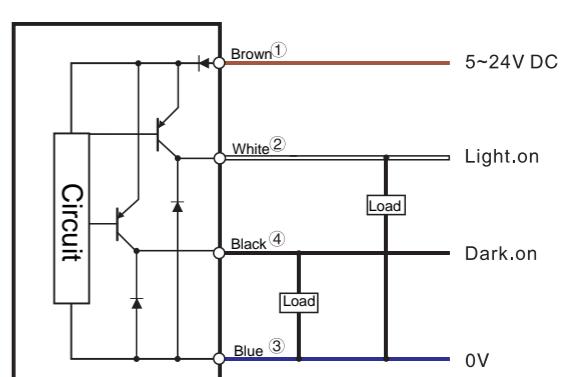
Appearance						
Category						
Detection distance						5mm (slot width)
Standardized detecting object						Opaque objects of 0.8*1.2mm or above
Repeated accuracy						0.03mm or below
Output mode						NPN open collector
Switching mode						L.on(light-input action)/D.on(light-darkening action) can be switched
Indicator light						Light off when object is detected, light on when no object is detected
Response frequency						3 KHz
Light source						Infrared light
Operating voltage						5~24V DC
Residual voltage						1V or below (at load current 100mA)
Current consumption						8mA
Protection circuit						Surge protection, reverse polarity protection
Ambient light						Lighted surface luminance incandescent light: 1000lux or below
Ambient temperature						Operating: -25 ~ +55 Storing: -30 ~ +80 , non-freezing
Environmental humidity						Operating: 5%~85%RH Storage: 5%~95%RH, no condensation
Voltage-resistant						AC,1000V for 1 minute, between all power supply connection terminals and housing
Vibration-resistant						Frequency 10Hz~2,000Hz double-amplitude 1.5mm (Max. acceleration 196m/s ²) XYZ each direction 2 hours
Insulation resistance						20M or above between all power connection terminals and housing (based on DC250V)
Protection level						IP50
Material						PC
Wire outgoing method						2M4 core cable
Model NPN	UX670-WR	UX671-WR	UX672-WR	UX673-WR	UX674-WR	UX675-WR
Model PNP	UX670P-WR	UX671P-WR	UX672P-WR	UX673P-WR	UX674P-WR	UX675P-WR

Circuit

DC line 4-wire NPN output

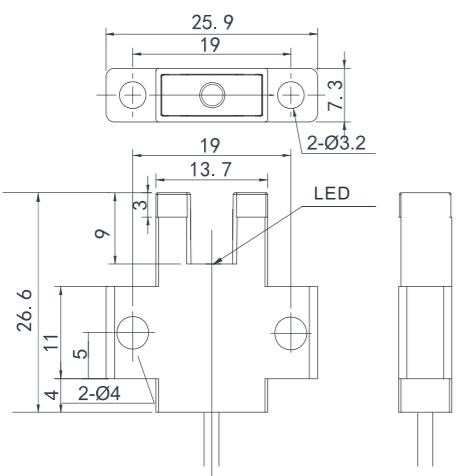


DC line 4-wire PNP output

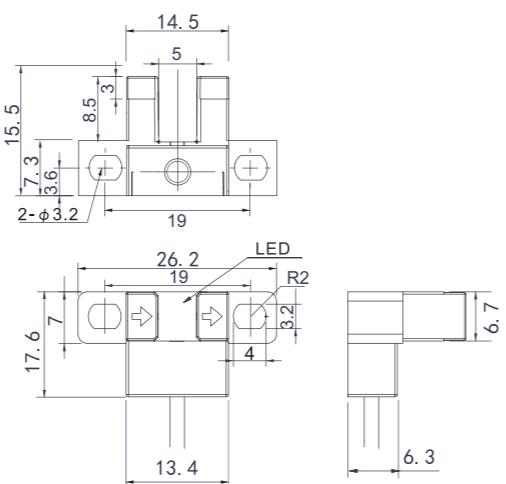


Outline dimension diagram

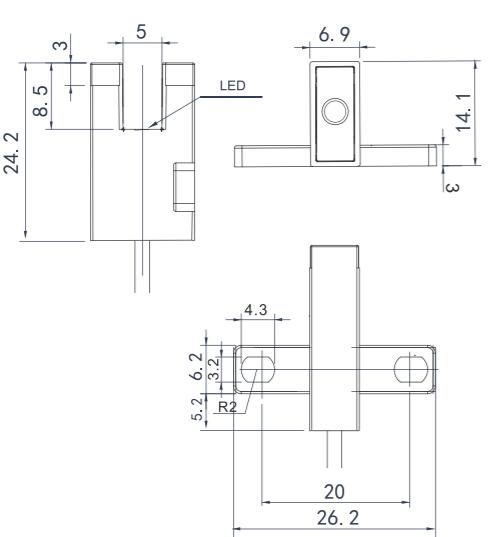
UX670-WR



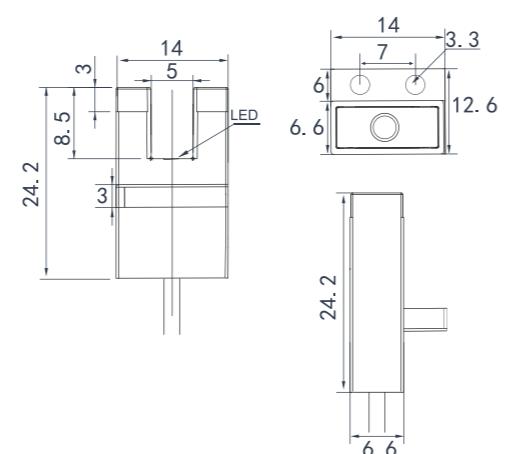
UX671-WR



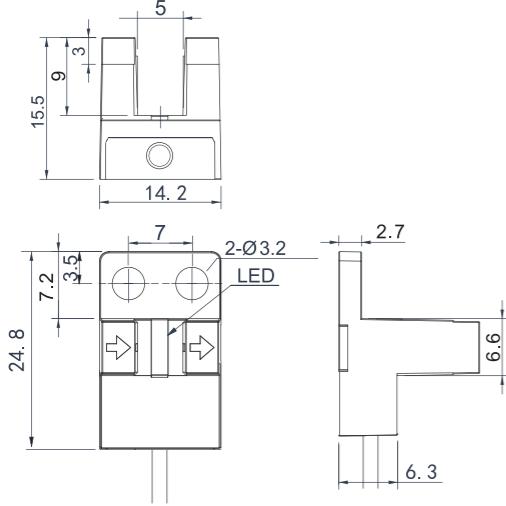
UX672-WR



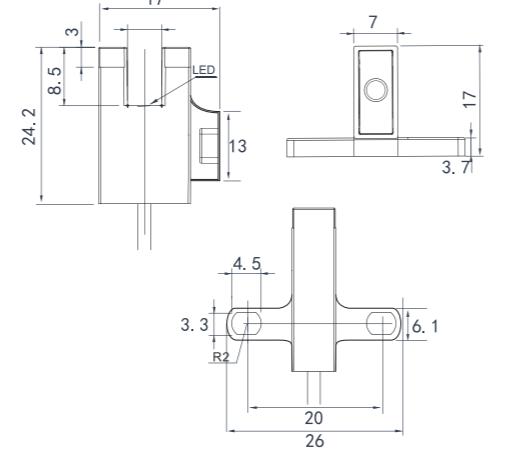
UX673-WR



UX674-WR



UX675-WR



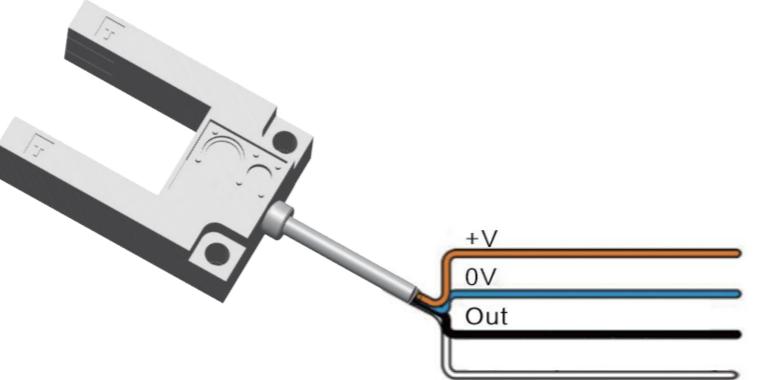


UXG SERIES WIDE-SLOTTED PHOTOELECTRIC SENSOR

Wide-slotted photoelectric sensor

The equipment has two separate outputs

All models are equipped with two independent outputs - ON when light-input and ON when light-darkening - to cope with different output requirements depending on the place of use.



Note: Link only the used cables (ON when light-input \ ON when light-darkening), and be sure to insulate the output cables that are not in use.

Strong interference resistant ability

Strong resistance to external light interference, the smallest detection object of 1mm, high-speed response with an answer frequency of 1Khz

Three model options for slot width

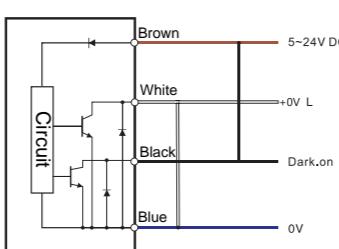
Slot width includes: 15mm, 25mm and 30mm, you can choose the model that meets your installation conditions according to your needs

Sensitivity adjustable

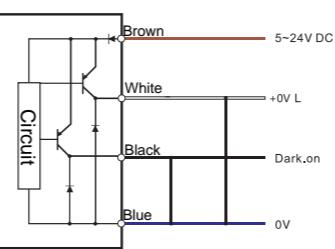
Built-in single-turn potentiometer, adjust the sensitivity to detect transparent film or labels over 0.1mm

Wiring method

DC line 4-wire NPN output



DC line 4-wire PNP output



Wide-slotted photoelectric sensor

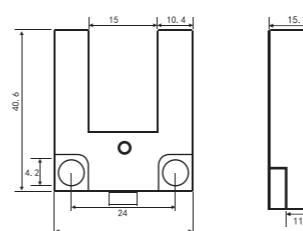
Product parameters

Appearance			
Item model	UXG15	UXG25	UXG30
Detection distance	15mm	25mm	30mm
Standardized detecting object		Opaque objects of 1mm or above	
Response frequency		1 KHz	
Light source (luminous wavelength)	Infrared light emitting diode (950nm)		
Power supply voltage	DC 12-24V±10% pulsation (p-p)10% or below		
Current consumption	40mA or below		
Control output	Load power supply voltage DC24V or below, load current 80mA or below (residual voltage 2V or below), NPN voltage output type, ON when light input /ON when light blocking, wire connection switching method		
Protection circuit	Power supply reverse-connection protection, output short circuit protection		
Response time	Action, reset: under 1ms each		
Sensitivity adjustment	Unidirectional rotary knob		
Service ambient luminance	Lighted surface luminance incandescent light: 3,000lx, sunlight: 10,000lx		
Ambient temperature	Operating: -25~+55 In storage: -40~+70 (no icing or frosting)		
Environmental humidity	In operating: 35~85% RH, in storage: 35~95% RH (no condensation)		
Insulation resistance	20M or above (DC500V megohmmeter)		
Voltage-resistant	AC1,000V50/60Hz 1min		
Vibration (durable)	10~55Hz double amplitude 1.5mm 2h in each direction of X, Y, Z		
Impact (durable)	500m/s ² 3 times in each direction of X, Y, Z		
Protection structure	IEC standard IP67		
Connection method	Wire lead type (standard wire length 2m)		
Quality (after packaging)	Approx. 330g		
NPN model	UXG15	UXG25	UXG30
PNP model	UXG15P	UXG25P	UXG30P

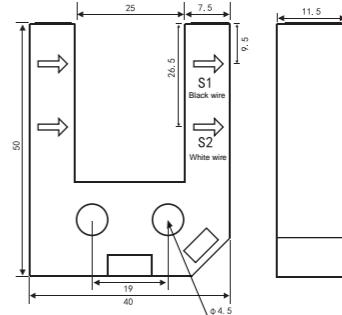
Slotted sensor

Slotted sensor
Optical fiber sensor
Displacement sensor
Safety sensor
Photoelectric sensor
Proximity sensor
Specialized sensor

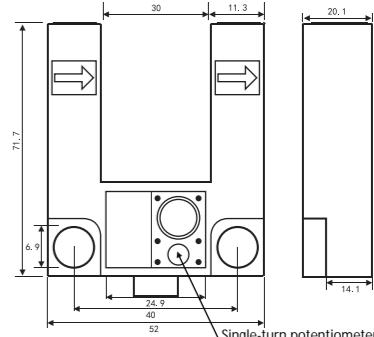
UXG15



UXG25 (two optical axes and two channels output)



UXG30



UX SERIES LABEL SENSOR



Label sensor

Product characteristics

Outline advantage

The thin design allows flexible installation near automatic labeling machines, ensuring higher process precision. Compact housing saves installation space.

Solid integrated housing

Solid integrated housing for extra high reliability. Aluminum housing, protection level IP65, meets all the needs of use in harsh industrial environments.

Solid U-shape without optical axis alignment

The light projector and light receiver are mounted in the same sensor, so optical axis alignment is not required.

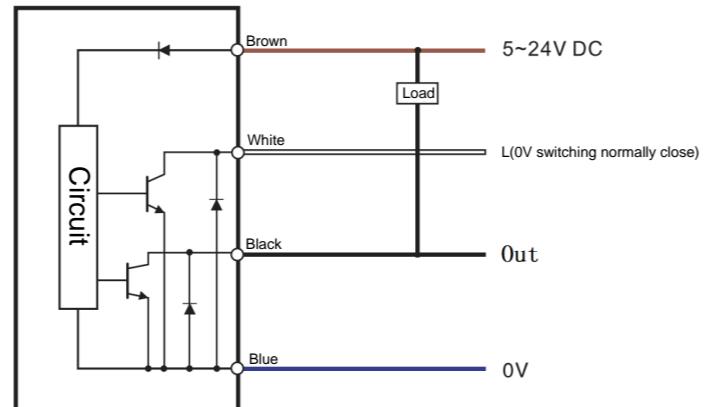
High-efficient response

Short response time, rapid response time as low as 50μs and high resolution ensure reliable detection even at high speeds.

Interference resistant

Superior ambient light interference resistance with infrared light source.

Wiring method



Label sensor

Product Parameters

Model Item	Category	Label sensor	
		NPN output	PNP output
UX-WFS3N	UX-WFS3P		
Appearance			
			
Slot depth/slot width 3x58mm Operating voltage DC12V~24V Ripple voltage 10% Power consumption 40mA Light source GaAs infrared light emitting diodes (940nm) Switching frequency 10 kHz Stability of response time ±20μs Switch function Normally open and normally close, selectable by button Switch output voltage NPN: High level=Approx. Vs/Low level 2V PNP: High level=Vs- 2V/Low level=Approx. 0V Maximum output current 100mA Initialization time 100ms Connection method Direct outgoing wire Ambient light safety Sunlight: (10000Lx) Circuit protection Surge protection circuit, short circuit protection, reverse polarity protection Housing protection level IP65 Material Housing: plastic			

Dimension diagram (unit: mm)

