

■ XKC SENSOR ■

FACTORY DIRECT SALES
SUPPORT CUSTOMIZATION

Factory
direct sales

Independent
research and
development

Quality
assurance

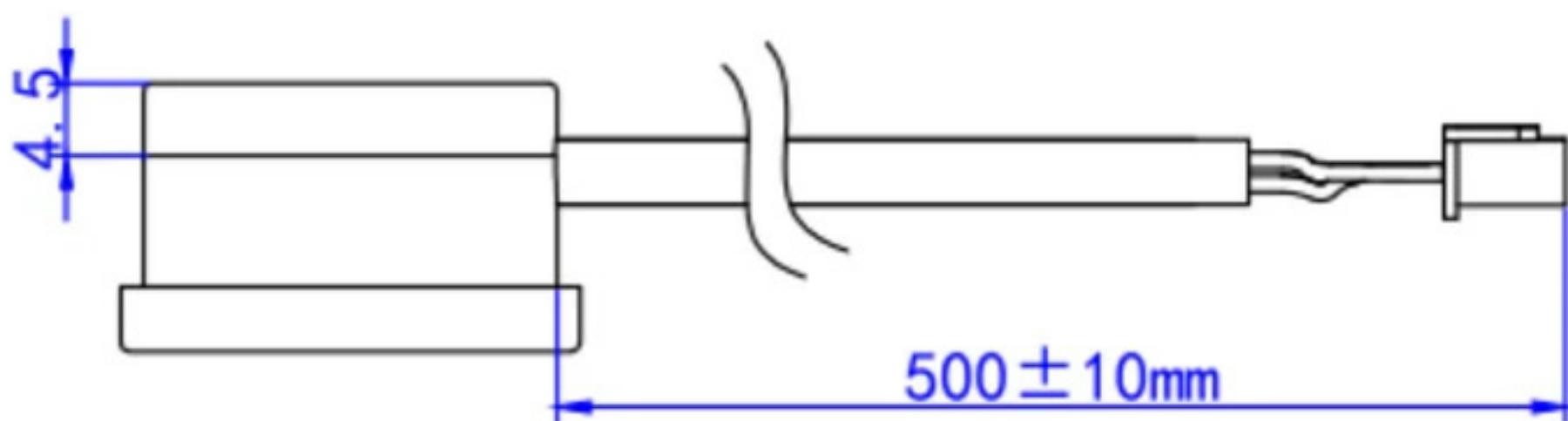
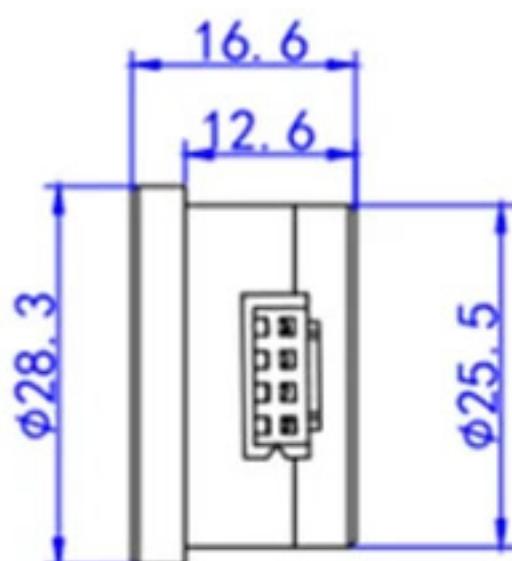
Technical
support

NON-CONTACT LIQUID LEVEL SENSOR

XKC-Y25



■ PRODUCT INFORMATION ■



Project name	Parameters			
Product model	XKC-Y25-V	XKC-Y25-PNP	XKC-Y25-NPN	XKC-Y28-RS485
Supply voltage (Vin)	(DC 5-24V)	(DC 5-12V) (DC 24V)	(DC 5-12V) (DC 24V)	24V(12V can be customized)
Output mode	High and low level	Switch quantity (high pulse effective)	Switch quantity (low pulse effective)	Communication output
Power ripple requirements	≤200 mV			
electric current	≤5mA			
Response time	500mS			
Working temperature	-20~105°C			
humidity	5%~100%			
Induction thickness (Sensitivity) range	≤20mm (Container wall thickness)			
Liquid level accuracy	±1.5mm			
Line length	500MM (±10MM) (Bulk can be customized)			
Terminal sequence	Brown (power supply positive), Blue (power negative),	yellow (signal output)	black (COM terminal)	
Material	PC V0 Fireproof material			
Waterproof performance	IP67			
Safety standard certification	CE			
Environmental protection certification	ROHS-2.0			

◆ PRODUCT SELECTION ◆

Serial number	type number	signal interface
1	XKC-Y25-V (DC 5V-24V)	High and low level output interface
2	XKC-Y25-NPN (DC 5V-12V)	
3	XKC-Y25-NPN (24V)	NPN output interface
4	XKC-Y25-PNP (DC 5V-12V)	
5	XKC-Y25-PNP (24V)	PNP switch output interface
6	XKC-Y25-RS485 (DC24V can be customized 12V)	RS485 communication output interface

■ Excellent performance in a wide range of applications ■



Aluminium water tower



Agricultural protection



Waste water systems



Uav physic liquor sensing



Medical equipments



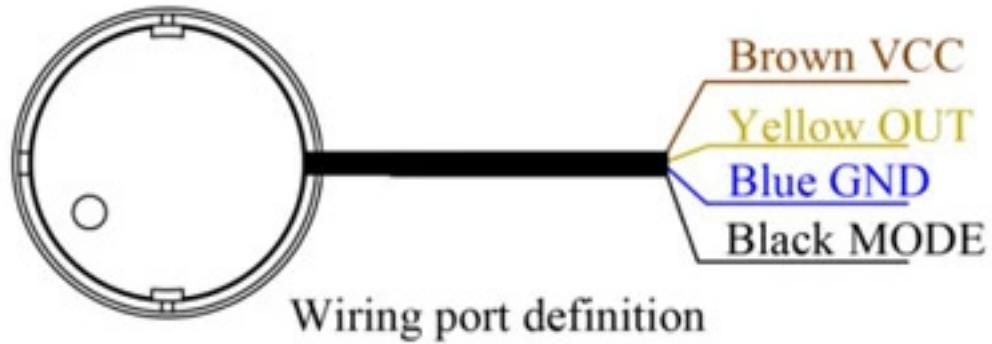
Fish tanks circulation system



Intelligent home appliances



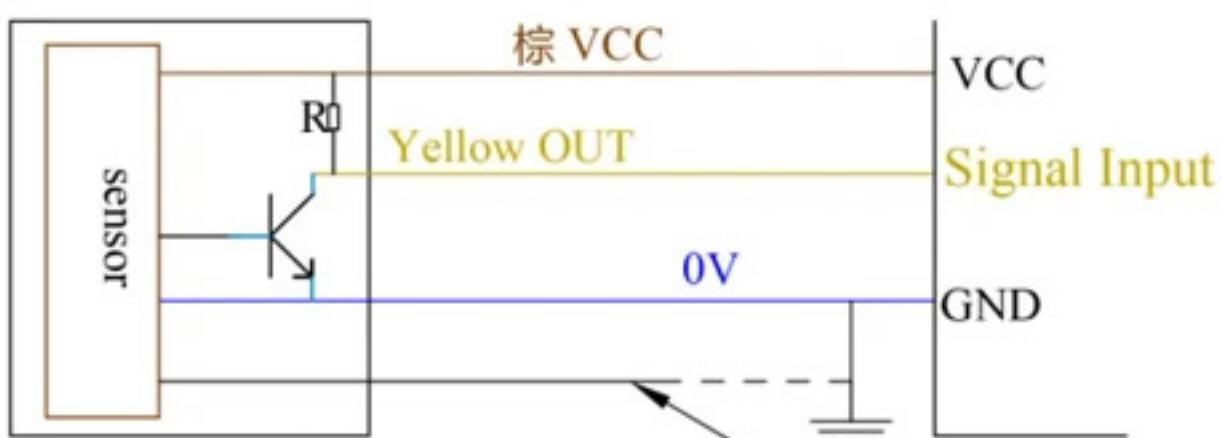
Industry automation



1. Power supply positive brown
2. Signal output line yellow
3. Power negative pole blue
4. Signal selection line black

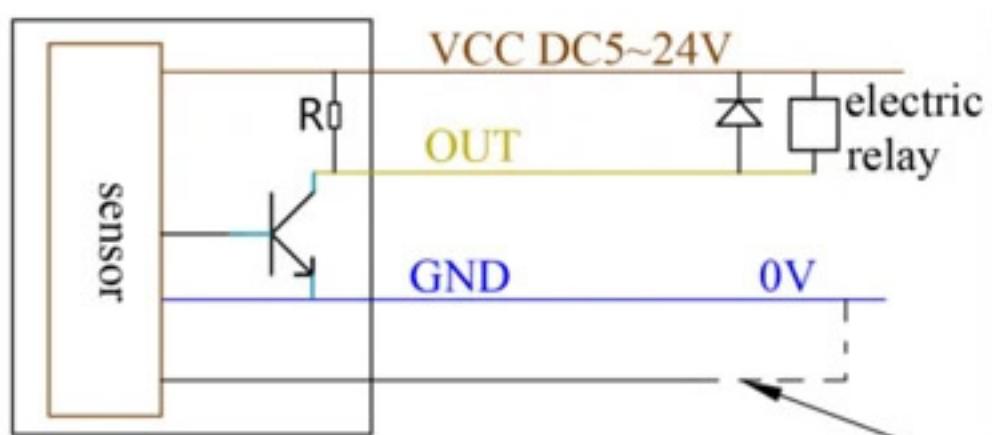
Terminal wiring sequence

Positive output/normally open output: the black line is suspended; Inverted output/normally closed output: the black line and the blue line are shorted



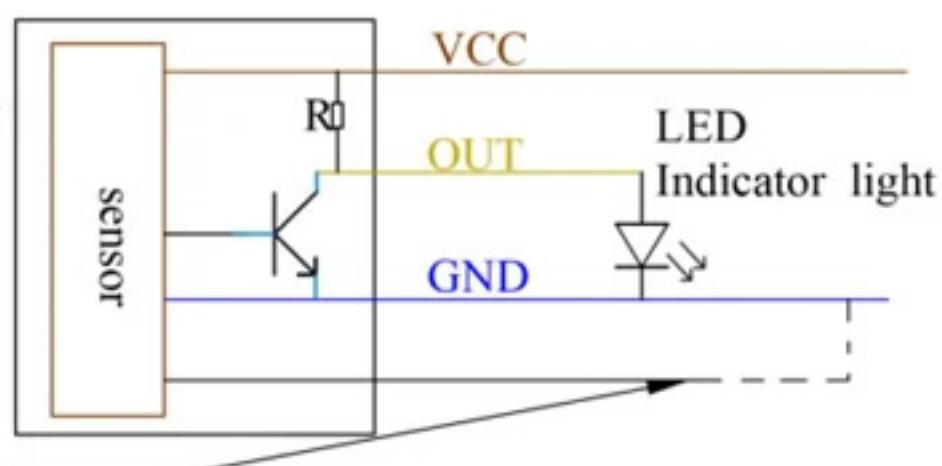
Normally open/normally closed output selection

High and low level signal output: wiring method to connect to controller or MCU



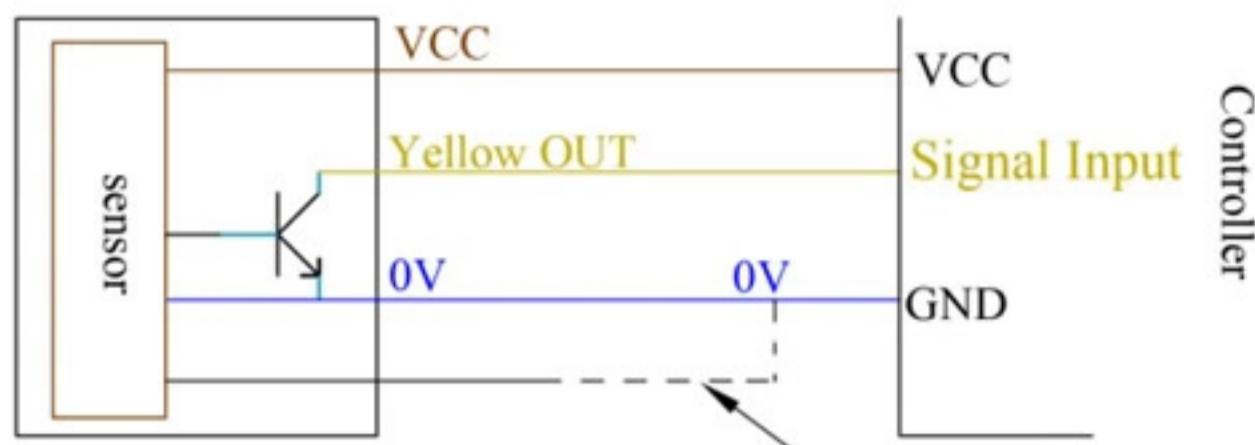
MODE positive and negative output selection

High and low level signal output:
Wiring method of connecting electric relay



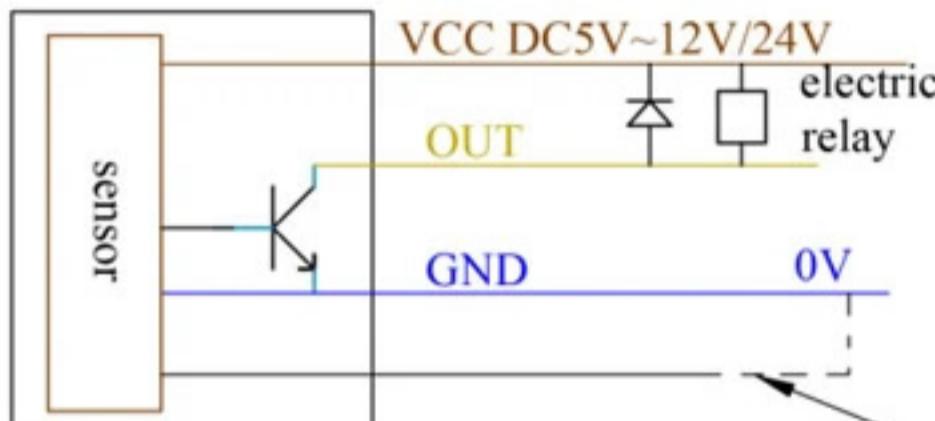
High and low level signal output:
Wiring method for connecting LED indicator

**Note: Inductive loads such as relays
should be protected by freewheeling diodes**



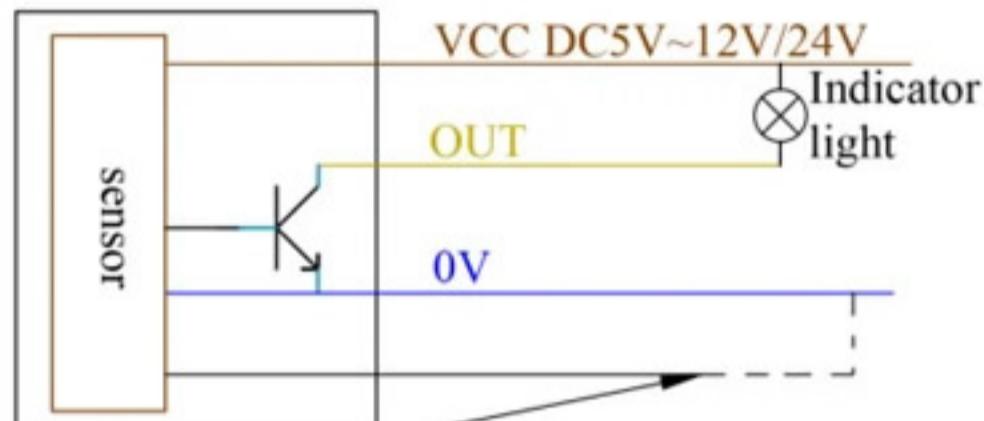
Normally open/normally closed output selection

NPN signal output: wiring method to connect to controller or MCU



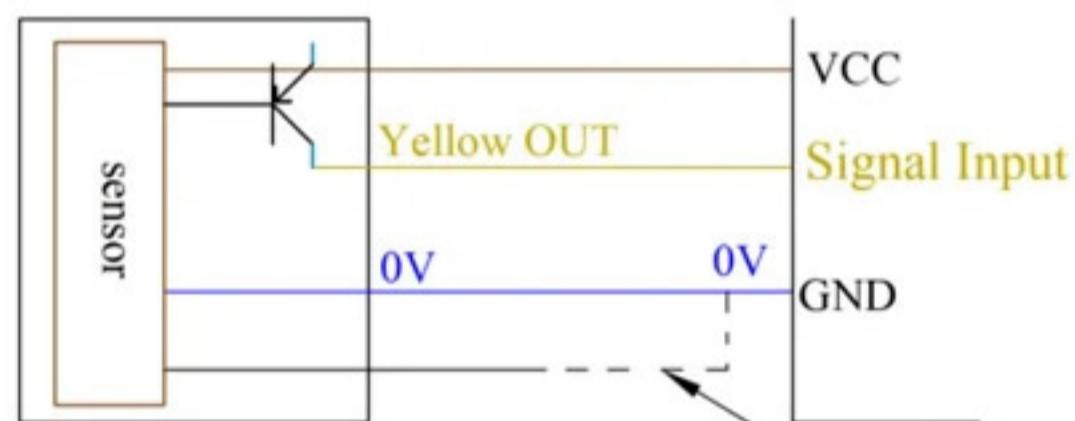
Normally open/normally closed output selection

NPN signal output:
Wiring method of connecting
electric relay



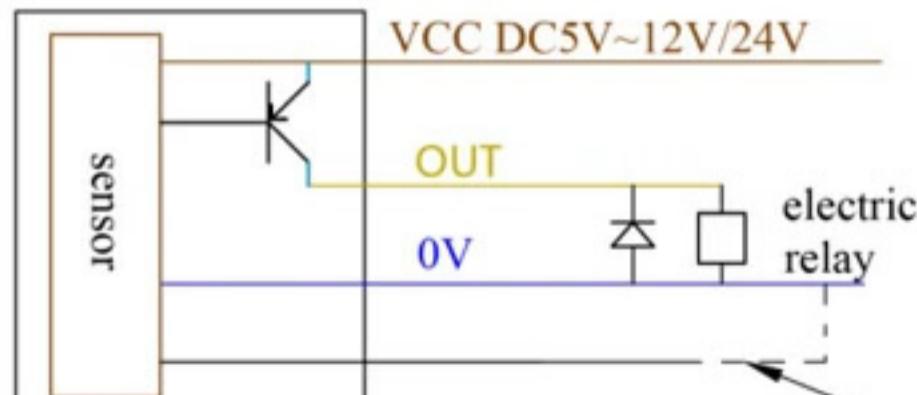
NPN signal output:
Wiring method of connecting
indicator light

**Note: when connected to inductive loads such as
relays, freewheeling diodes should be added for protection**



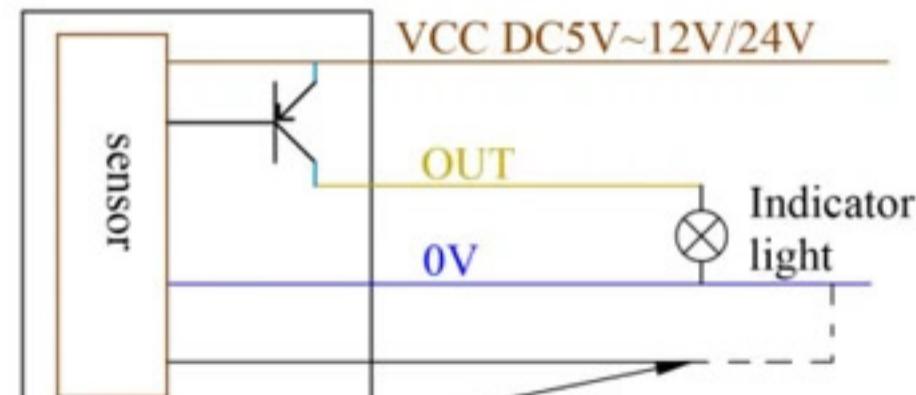
Normally open/normally closed output selection

PNP signal output: wiring method to connect to controller or MCU



Normally open/normally closed output selection

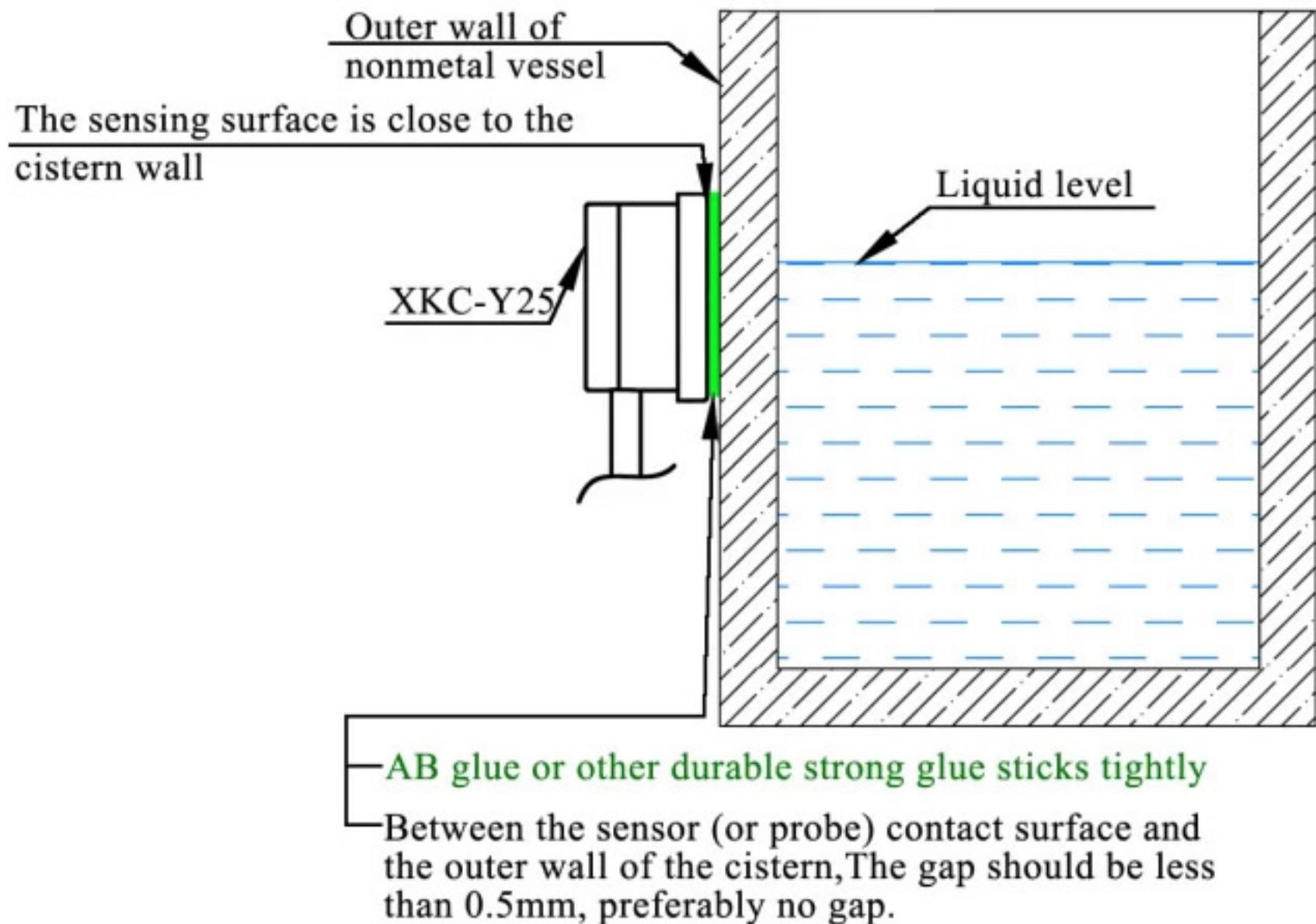
PNP signal output:
Wiring method of connecting
electric relay



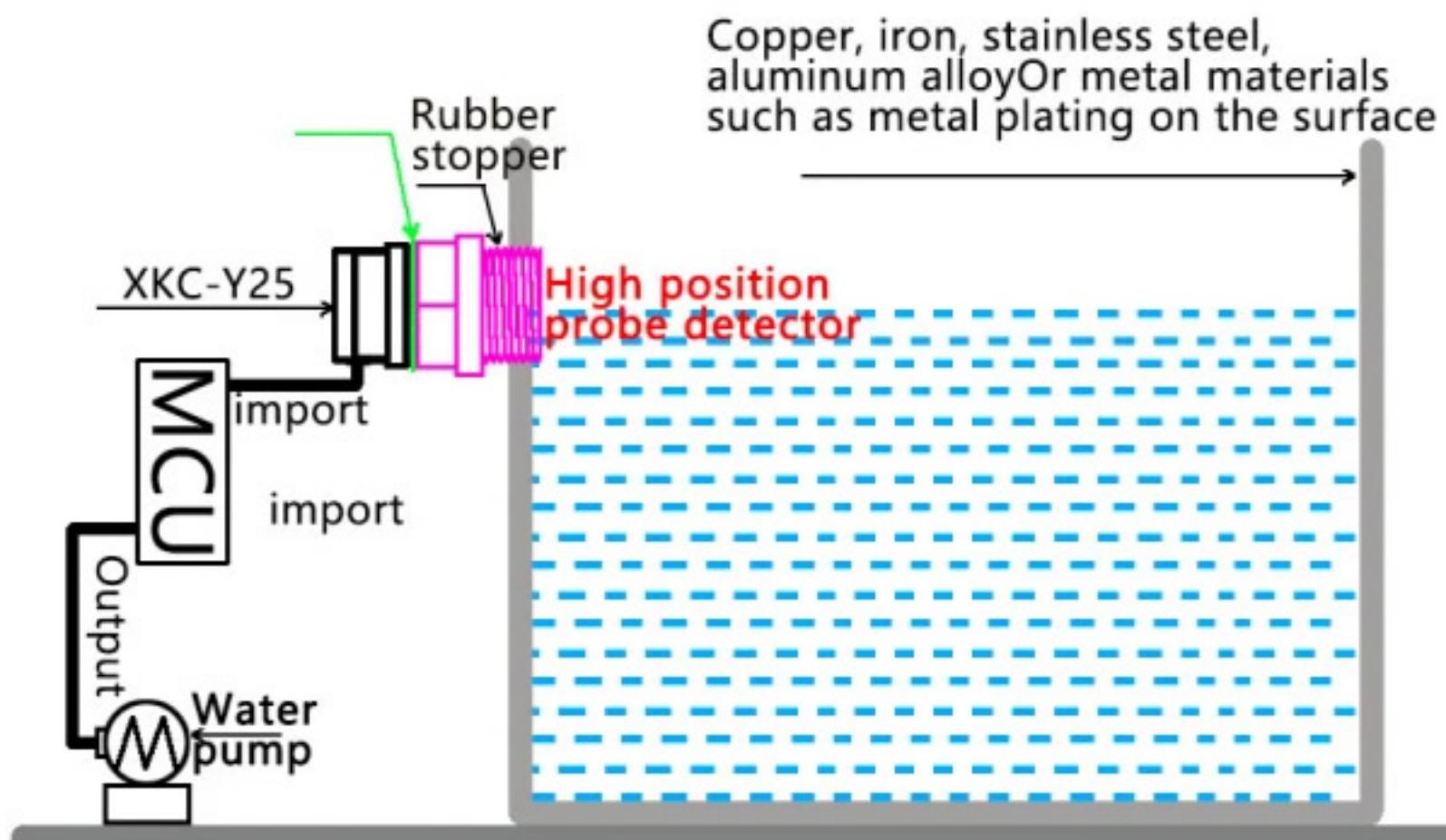
PNP signal output:
Wiring method of connecting
indicator light

■ INSTALLATION METHOD ■

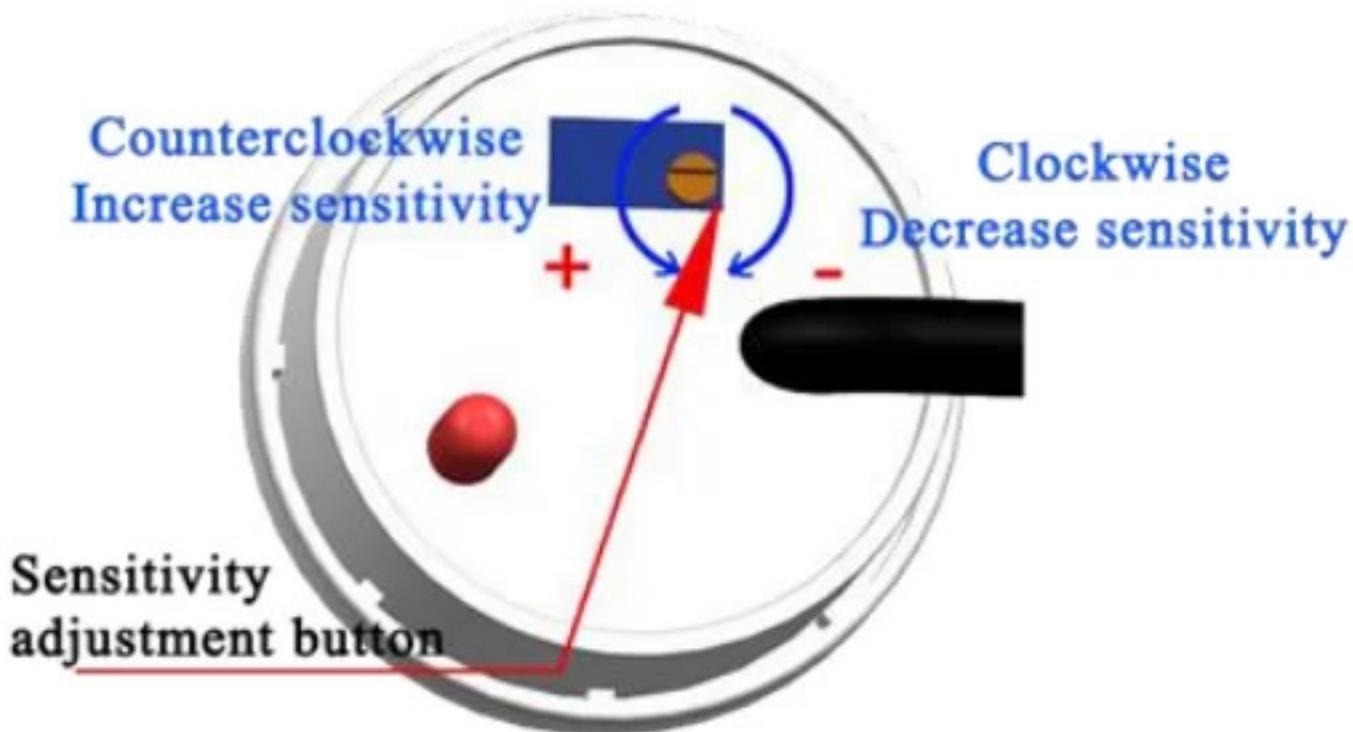
NON-METAL CONTAINER INSTALLATION



METAL CONTAINER INSTALLATION



■ INSTALLATION METHOD ■



If the liquid level cannot be detected or the distance between the detected liquid level and the Y25 sensor is deviated, Open the back cover of the sensor and use a small screwdriver to adjust the sensitivity knob.

XKC's Features



VS

Others Features



Contactless liquid level sensor:
Sensing liquid through the container, easy to install, IP67 protection and waterproof level, more durable, suitable for containers of various shapes, wide application, factory direct sales price

Old-fashioned floating ball:
the outside cannot be detected, it is easy to rust, the fault and the service life is short, the water quality is affected, the conditions are harsh, and the cost is high.

■ PROOUCT ADVATAGES ■



No need to touch the liquid
detect through the container



Not affected by ambient temperature
humidity and acid-base corrosion



Exquisite and compact
appearance,easy to install



The sensitivity (accuracy) of
the product can be adjusted



Strong docking compatibility