

# FILMBASE

MAKE GLASS DO MORE

## PDLC Power controller Product catalog

Multi-scene solution for FILMBASE smart film



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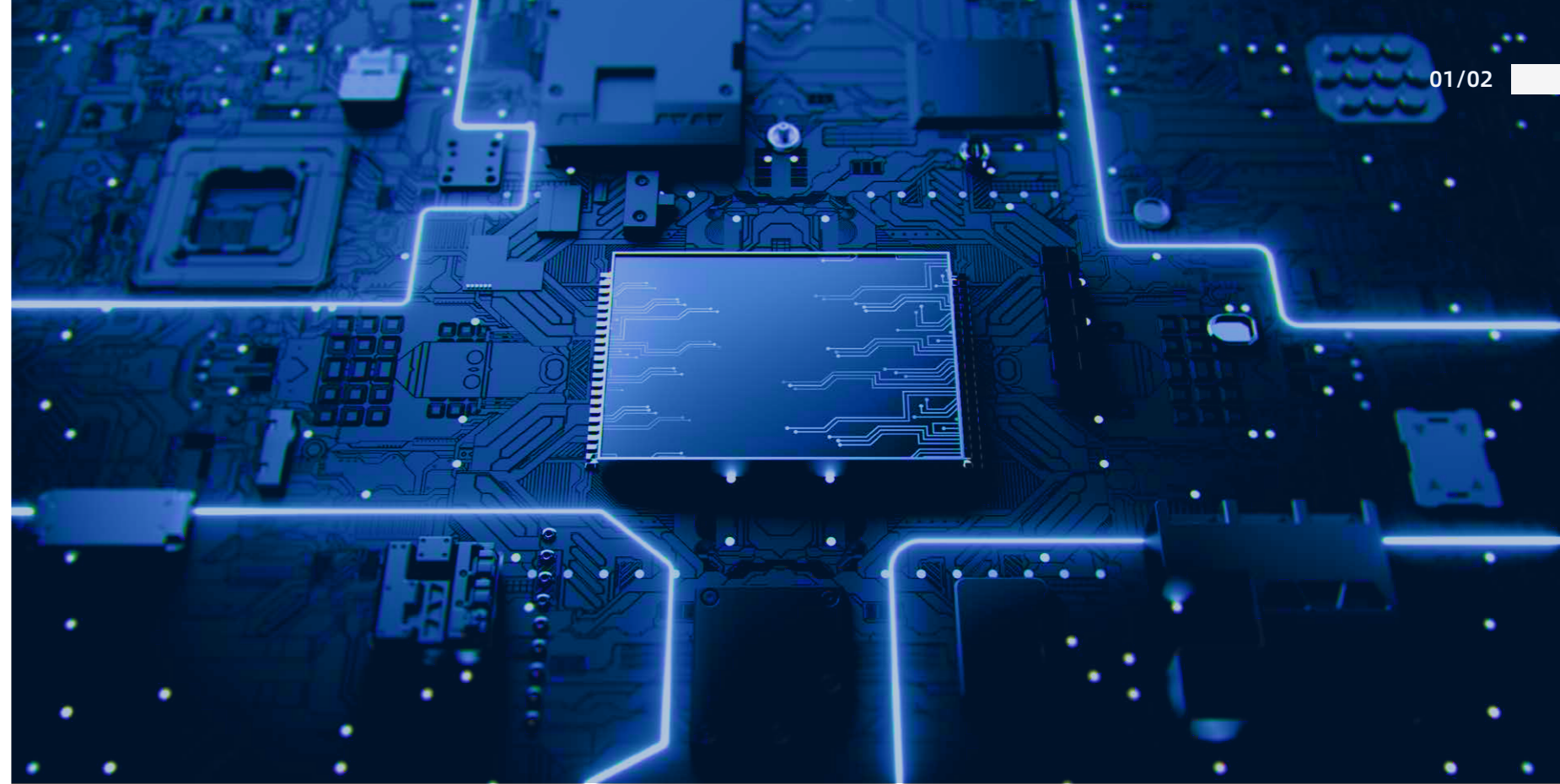
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# PDLC Power controller

Smart film, PDLC for short, is a thin film made of two transparent conductive layers of composite liquid crystal, its characteristics for transparency can change between transparent and opaque, no electricity for opaque, apply its different properties of electrical properties, can show different transparent characteristics, used to drive the transparent equipment of PDLC. PDLC power controller, hereinafter referred to as "power controller".

The power controller is actually divided into "power supply" and "controller" two parts, The "power supply" part is responsible for power supply and provides working electric energy for PDLC. The "controller" part is responsible for all logic control of PDLC functions and performance. According to different uses, controllers with different characteristics can provide electrical protection for PDLC (such as overcurrent protection, overvoltage protection, undervoltage protection, short circuit protection, etc.). Provide a variety of terminal control schemes for PDLC (such as wireless remote control, human body sensing, touch control, infrared laser control, voice control, remote control, embedded smart home control, etc.), and provide functional change effects for PDLC (such as flicker mode, gradient mode, shunt control, louver grid, graphic display, etc.).

The working voltage of smart glass is generally 36-60VAC. Adhering to the concept of quality first, Filmbase has set up an electronics business division to independently develop and design a series of power controllers and control systems suitable for multiple application scenarios, with high performance, high quality and multi-function. It has a number of patents, software Copyrights and other independent intellectual property rights.



## Remote control function

Can be matched with any special remote control code each power supply can be matched with 3 remote control

## By-wire function

Connected to the mechanical switch control, usually 86 switch through the wall switch to control the transparency and atomization of the smart film

## Door magnetic control

Through the wire control port, the spring end of the magnetic switch is connected to realize the transparency and atomization of the smart film

## Smart home

Through the wire control port, access to the smart home port, through the smart home control system, control the transparency and atomization of the smart film

## Human body sensing

Through AC input terminal or wire control port access to the human body induction module to realize human body induction, delay induction, control smart film

## Light sensing control

Specially equipped with no wiring light sensing remote control button 3 levels of light intensity control, strong light atomization, weak light transparent

## Remote control

The transparency and atomization of the smart film can be controlled remotely by matching the peripheral WIFI module accessories

## Voice control

By matching peripheral voice module accessories, the transparency and atomization of smart film can be controlled by AI speaker or smart home voice

# FB-931 Sample power supply series



## Product Parameter

<b>Input</b>	5VDC Min.500mA; Interface type: USB.
<b>Output</b>	24-48VAC self-adaptive; Interface type: JST terminal.
<b>Power</b>	1W
<b>Load</b>	Smart film within 24 inches; ≤0.15m².
<b>Function</b>	Power on and start up; Press the button trigger cycle function. (Boot -> Flicker -> Gradient -> Shut down)
<b>Output line Size</b>	200mm 48*26*15mm
<b>Weight</b>	20g
<b>Input line</b>	500mm

# FB Wall adapter series



## Product Parameter

<b>Input</b>	100-120VAC 60Hz / 200-240VAC 50Hz		
<b>Output</b>	Regular 60VAC; The output frequency follows the input frequency; Customizable output 36-110VAC.		
<b>Power</b>	Can be chosen 1W / 3W / 5W.		
<b>Protection</b>	Front stage safety capacitors fuse.		
<b>Function</b>	No expansion; Can match the socket of various countries.		
<b>Size (1W)</b>	52*33*30mm	<b>Weight (1W)</b>	120g
<b>Size (3W)</b>	58*44*36mm	<b>Weight (3W)</b>	150g
<b>Size (5W)</b>	65*44*39mm	<b>Weight (5W)</b>	170g

## FB Desktop adapter series



### Product Parameter

<b>Input</b>	100-120VAC 60Hz / 200-240VAC 50Hz
<b>Output</b>	Regular 60VAC; The output frequency follows the input frequency; Customizable output 36-110VAC.
<b>Power</b>	Can be chosen 10W / 20W.
<b>Function</b>	No expansion. The wire control version cannot be added remote control later. The remote control must be supplied before delivery.
<b>Size</b>	78*60*48mm; Can match the plug of various countries.
<b>Weight (10W)</b>	330g
<b>Weight (20W)</b>	550g
<b>Protection (By-wire plate)</b>	Fuse wire.
<b>Protection (Remote control version)</b>	Fuse, over current protection, over voltage protection, short circuit protection.

## FB-927 Small shell series



### Product Parameter

<b>Input</b>	100-120VAC 60Hz / 200-240VAC 50Hz
<b>Output</b>	Regular 60VAC; The output frequency follows the input frequency; Customizable output 36-110VAC.
<b>Power</b>	Can be chosen 30W / 50W.
<b>Protection</b>	Overcurrent protection, overvoltage protection, short circuit protection, front stage safety capacitors fuse.
<b>Function</b>	Remote receiver, wire control port.
<b>Size</b>	120*99*65mm
<b>Weight (30W)</b>	0.95kg
<b>Weight (50W)</b>	1.1kg

## FB-927 Middle shell series



### Product Parameter

Input	100-120VAC 60HZ / 200-240VAC 50HZ
Output	Regular 60VAC; The output frequency follows the input frequency; Customizable output 36-110VAC.
Power	100W
Protection	Overcurrent protection, overvoltage protection, short circuit protection, front stage safety capacitors fuse.
Function	Remote receiver, wire control port.
Size	180*109*76mm
Weight	2.26kg

## FB-927 Large shell series



### Product Parameter

Input	100-120VAC 60Hz / 200-240VAC 50Hz
Output	Regular 60VAC; The output frequency follows the input frequency; Customizable output 36-110VAC.
Power	Can be chosen 200W / 300W / 500W.
Protection	Overcurrent protection, overvoltage protection, short circuit protection, front stage safety capacitors fuse.
Function	Remote receiver, wire control port.
Size	200*120*100mm
Weight (200W)	3.5kg
Weight (300W)	4.2kg
Weight (500W)	5kg

## FB-927 Plastic-case series



### Product Parameter

<b>Input</b>	100-120VAC 60Hz / 200-240VAC 50Hz
<b>Output</b>	Regular 60VAC; The output frequency follows the input frequency; Customizable output 36-110VAC.
<b>Power</b>	Can be chosen 30W / 50W.
<b>Protection</b>	Overcurrent protection, overvoltage protection, short circuit protection, front stage safety capacitors fuse.
<b>Function</b>	Remote receiver, wire control port, upgrade port.
<b>Size</b>	150*96*58mm
<b>Weight (30W)</b>	0.8kg
<b>Weight (50W)</b>	0.9kg

## FB-929 Middle shell series



### Product Parameter

<b>Input</b>	100-120VAC 60HZ/200-240VAC 50HZ		
<b>Output</b>	Regular 60VAC; The output frequency follows the input frequency; Customizable output 36-110VAC.		
<b>Power</b>	Can be chosen 200W / 300W / 500W/ 600W.		
<b>Protection</b>	Overcurrent protection, overvoltage protection, short circuit protection, front stage safety capacitors fuse.		
<b>Function</b>	Remote receiver , wire control port, can match gradient smart film box.		
<b>Size</b>	205*171*84.2mm		
<b>Weight (200W)</b>	3.5kg	<b>Weight (500W)</b>	6kg
<b>Weight (300W)</b>	4.3kg	<b>Weight (600W)</b>	6.6kg

## FB-929 Large shell series



### Product Parameter

<b>Input</b>	100-120VAC 60Hz / 200-240VAC 50Hz
<b>Output</b>	Regular 60VAC; The output frequency follows the input frequency; Customizable output 36-110VAC.
<b>Power</b>	Can be chosen 800W / 1000W.
<b>Protection</b>	Overcurrent protection, overvoltage protection, short circuit protection, front stage safety capacitors fuse.
<b>Function</b>	Remote receiver, wire control port, can match gradient smart film box.
<b>Size</b>	220*196*100mm
<b>Weight (800W)</b>	7.5kg
<b>Weight (1000W)</b>	8.2kg

## FB Conventional remote control series



### Product Parameter

<b>Frequency band</b>	Center frequency 433.92MHz; Bandwidth 50MHz.
<b>Power</b>	>10mW; Remote control distance > 15 m;
<b>Size</b>	143*39*15mm
<b>Weight</b>	70g
<b>Key count</b>	Keys 1-8 are optional.
<b>Data structure</b>	24-bit return to zero code; First frame: 7-15ms; Data cycle :0.8-1.2ms(judgment time base 500us)
<b>Battery specification</b>	No. 7 battery *2; 1.5V/ node, suitable for all power supplies.



# FB-1009 Vehicle power supply series



## Product Parameter

<b>Input</b>	12VDC Min.1.2A
<b>Output</b>	Conventional 48VAC; Frequency 200Hz; Customizable output 36-60VAC.
<b>Power</b>	Max.10W
<b>Protection</b>	Conventional 48VAC; Frequency 200Hz; Customizable output 36-60VAC.
<b>Function</b>	Light sensing remote control, ACC ignition switch, wire control port, zero power consumption standby, customizable gradient.
<b>Size</b>	103*55*19mm
<b>Weight</b>	50g

# FB-410 Smart glass power supply



## Product Parameter

<b>Input</b>	100-240VAC 50/60Hz
<b>Output</b>	60VAC 50Hz; Customizable output 36-60VAC.
<b>Power</b>	30W / 50W
<b>Protection</b>	Overcurrent protection, overvoltage protection, short circuit protection, front stage safety capacitors fuse.
<b>Function</b>	Remote control receiver, conventional with 5 key remote control; Wire control port; Switch, flicker, gradient, speed regulation, constant voltage, constant frequency.
<b>Size</b>	123*88*35mm
<b>Weight</b>	430g

## FB-1003 Gradient smart film box



### Product Parameter

Input	36-60VAC 50/60Hz
Output	0 - Vin
Power	Max.200W; Beyond 200W, increase the slave, and the slave power is also 200W.
Protection	Overcurrent protection, overvoltage protection, short circuit protection, front stage safety capacitors fuse.
Function	Remote control receiver, conventional with 8 key remote control; Wire control port; It should be used with FB-929 series power supply.
Size	124*79*30mm
Weight	160g
Regulation mode	PWM voltage regulation.

## FB 9-way box



### Product Parameter

Input	36-60VAC 50/60Hz
Output	The voltage equals the input voltage ; 9 ways.
Power	Total power Max.200W; Single channel Max.20W.
Control	Remote control, conventional with 8 key remote control.
Size	124*79*30mm
Weight	160g
Function	Switch, dynamic mode speed regulation; Fit all power supplies.
Function (Static mode)	Small louver, medium louver, large louver, two mist through the middle, two mist through the middle.
Function (Dynamic mode)	Rolling, flowing water, convection, polymorphic circulation.

# FB-915 Louver smart film controller



## Product Parameter

<b>Input</b>	36-60VAC 50/60Hz
<b>Output</b>	The voltage equals the input voltage ; 64 ways.
<b>Power</b>	Total power Max.200W; Single channel Max.20W.
<b>Control</b>	Remote control, conventional with 8 key remote control.
<b>Size</b>	297*48*36mm
<b>Weight</b>	290g
<b>Function</b>	Switch, dynamic mode speed regulation; Fit all power supplies.
<b>Function (Static mode)</b>	Small louver, medium louver, large louver, two mist through the middle, two mist through the middle.
<b>Function (Dynamic mode)</b>	Rolling, flowing water, convection, polymorphic circulation.

# FB-1008 Sub-controller



## Product Parameter

<b>Input</b>	36-60VAC 50/60Hz
<b>Output</b>	The voltage equals the input voltage.
<b>Power</b>	Total power Max.200W.
<b>Control</b>	Remote control.
<b>Size</b>	67*42*23mm
<b>Weight</b>	40g
<b>Function</b>	Multiple controller, can be a remote control multi-key respectively control each branch, one key total control all branches; Fit all power supplies.

## FB WIFI controller



### Product Parameter

Input	36-220VAC 50/60Hz
Output	The voltage equals the input voltage.
Power	Total power Max.200W.
Control	Mobile phone APP.
Size	103*55*19mm
Weight	50g
Function	Switch control through APP, gradient (match the gradient smart film box), voice control, suitable for all power supplies.

## FB Peripheral master controller



\*This peripheral picture is for reference only

### Product Parameter

Input	110VAC 60Hz / 220VAC 50Hz
Output	The output voltage equals the input voltage.
Power	Total power Max.6000W; (Customizable)
Control	Remote control.
Size	It depends on the project.
Weight	It depends on the project.
Function	Single way switch, control multiple power supply, used for super large area of glass overall control, suitable for all power supply.

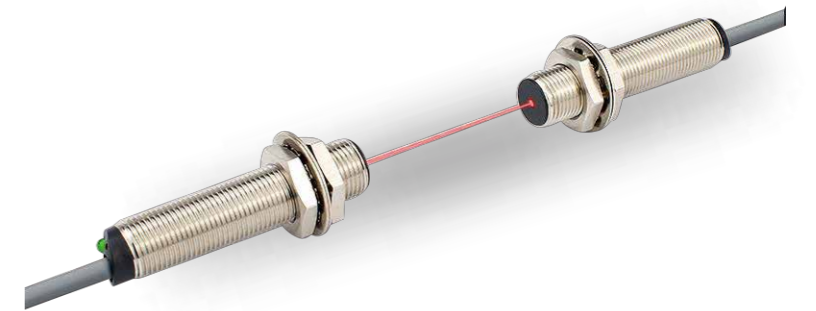
## FB Peripheral human body sensing



### Product Parameter

<b>Input</b>	110VAC 60Hz / 220VAC 50Hz
<b>Output</b>	The output voltage equals the input voltage.
<b>Power</b>	Total power Max.200W.
<b>Control</b>	Human body movement induction control.
<b>Size</b>	It depends on the project.
<b>Weight</b>	It depends on the project.
<b>Function</b>	Human body sensing, control the transparency and atomization of smart glass, suitable for all power sources.

## FB Peripheral laser induction



### Product Parameter

<b>Input</b>	5VAC 50/60Hz
<b>Output</b>	Switching signal.
<b>Power</b>	NC
<b>Size</b>	M12; Customize.
<b>Weight</b>	NC
<b>Function</b>	The smart glass control is realized by blocking and transmitting the laser through the laser beam tube.
<b>Control mode</b>	Laser beam.

## High voltage wire control - adapter series

Basic Function: Control the transparency and atomization of a set of smart glasses via a wall switch.

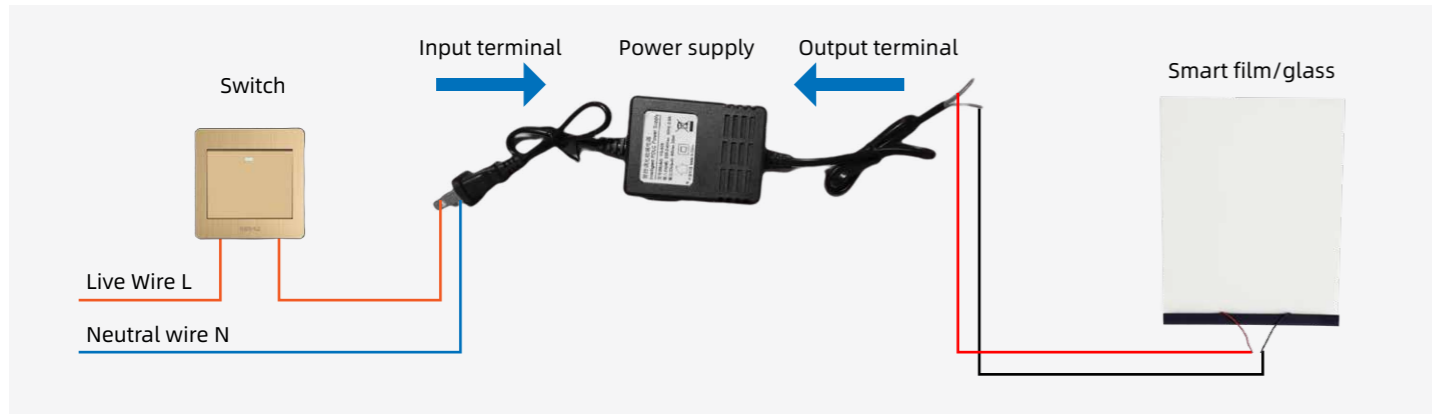
Control principle: Disconnect the mains power supply.

Note 1: Remote control is not recommended in this mode.

Note 2: If the input end is wired by cutting the plug, please remember that the side with the nameplate is input.

Note 3: Before power-on, please check the input and output carefully. Do not reverse the connection, otherwise the smart glass will be burned.

Use accessories: 86 panel switch (generally recommended customers own equipment).



## High voltage wire control - FB927 large shell series

Basic Function: Control the transparency and atomization of a set of smart glasses via a wall switch.

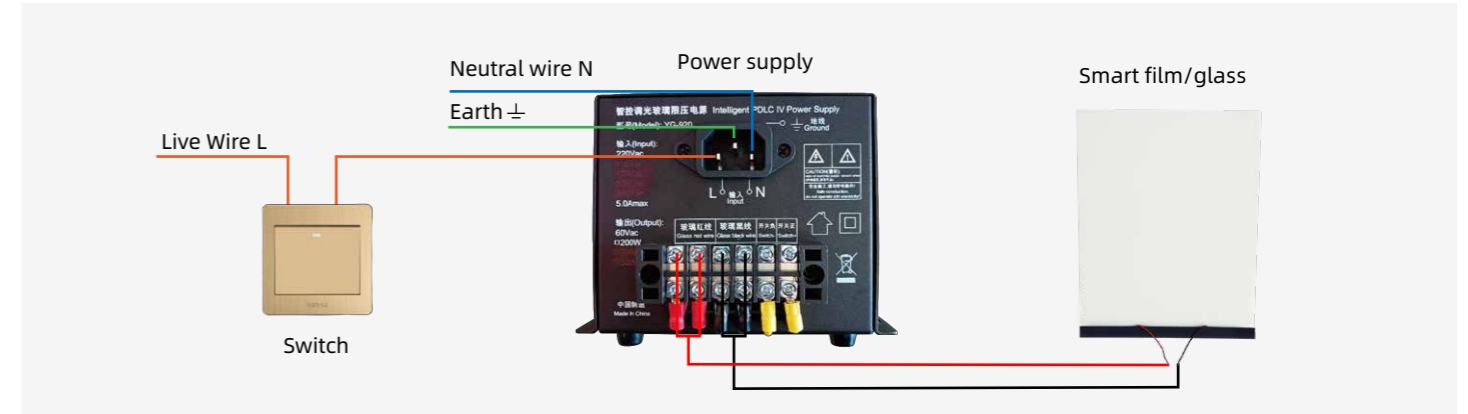
Control principle: Disconnect the mains power supply.

Note 1: Remote control is not recommended in this mode.

Note 2: If this method is used to switch the machine on and off, please leave the switch (O/F) port empty.

Note 3: Pay attention to the glass wire interface, there are two red and black ports, the corresponding color of the glass red and black wires is connected to one, power over 500W, it is recommended to do double red connection.

Use accessories: 86 panel switch (generally recommended customers own equipment).



## High voltage wire control - FB927 small/medium shell series

Basic Function: Control the transparency and atomization of a set of smart glasses via a wall switch.

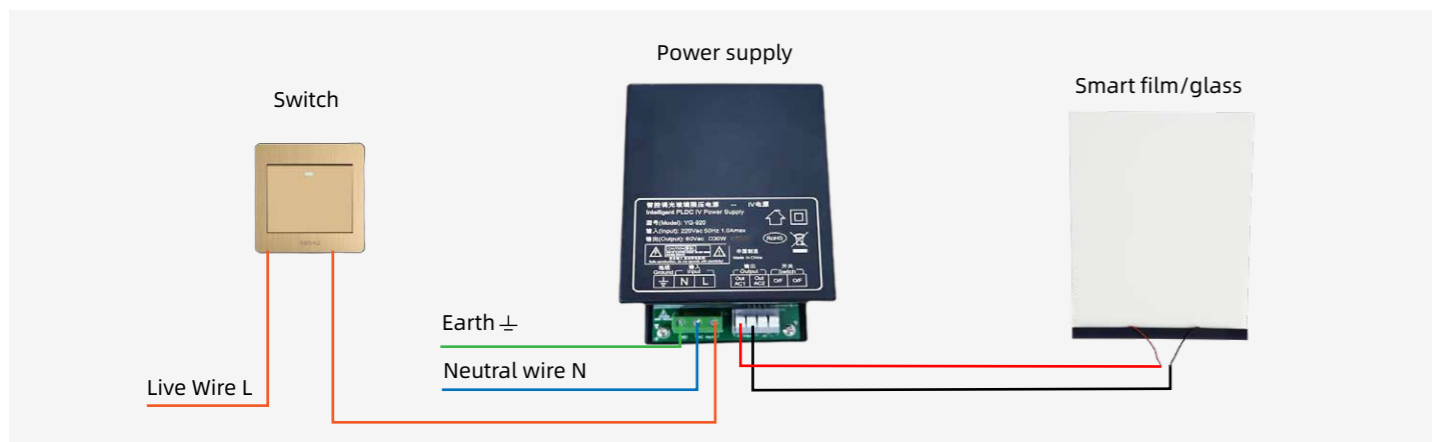
Control principle: Disconnect the mains power supply.

Note 1: Remote control is not recommended in this mode.

Note 2: If this method is used to switch the machine on and off, please leave the switch (O/F) port empty.

Note 3: Before power-on, please check the input and output carefully. Do not reverse the connection, otherwise the smart glass will be burned.

Use accessories: 86 panel switch (generally recommended customers own equipment).



## High voltage wire control - FB929 series

Basic Function: Control the transparency and atomization of a set of smart glasses via a wall switch.

Control principle: Disconnect the mains power supply.

Note 1: Remote control is not recommended in this mode.

Note 2: If this method is used to switch the machine on and off, please leave the switch (O/F) port empty.

Note 3: Pay attention to the glass wire interface. Do not connect the glass wire to the nearby wire control port.

Use accessories: 86 panel switch (generally recommended customers own equipment).



## Remote control - Adapter series

Basic Function: Control the transparency and atomization of a set of smart glasses by remote control.

Control principle: Disconnect the mains power supply.

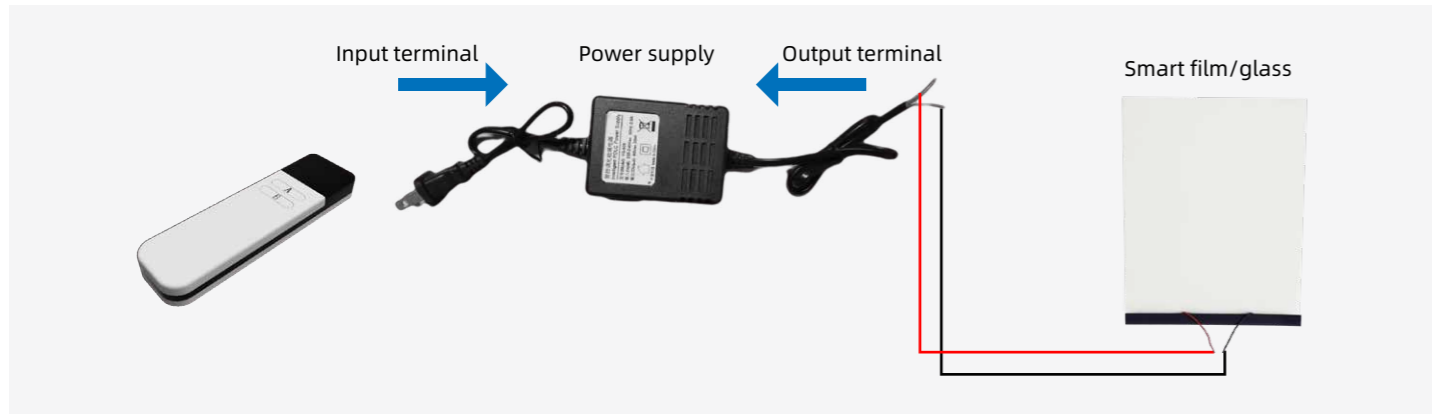
Note 1: Do not operate the remote control for 3 seconds after power-on. The effective distance of the remote control is 10 meters.

Note 2: If the input end is wired by cutting the plug, please remember that the side with the nameplate is input.

Note 3: Before power-on, please check the input and output carefully. Do not reverse the connection, otherwise the smart glass will be burned.

Note 4: It is not recommended to add a wall switch in this scheme. If it is added, the wall will not be opened, the remote control cannot be controlled, and the remote control is easy to lose code.

Use accessories: 2 key remote control.



## Remote control/low voltage wire control- FB927 large shell series

Basic Function: Control the transparency and atomization of a set of smart glasses by remote control and wall switch.

Control principle: wireless control, wall switch, control internal program control circuit, switch, remote control and wall open can realize double control.

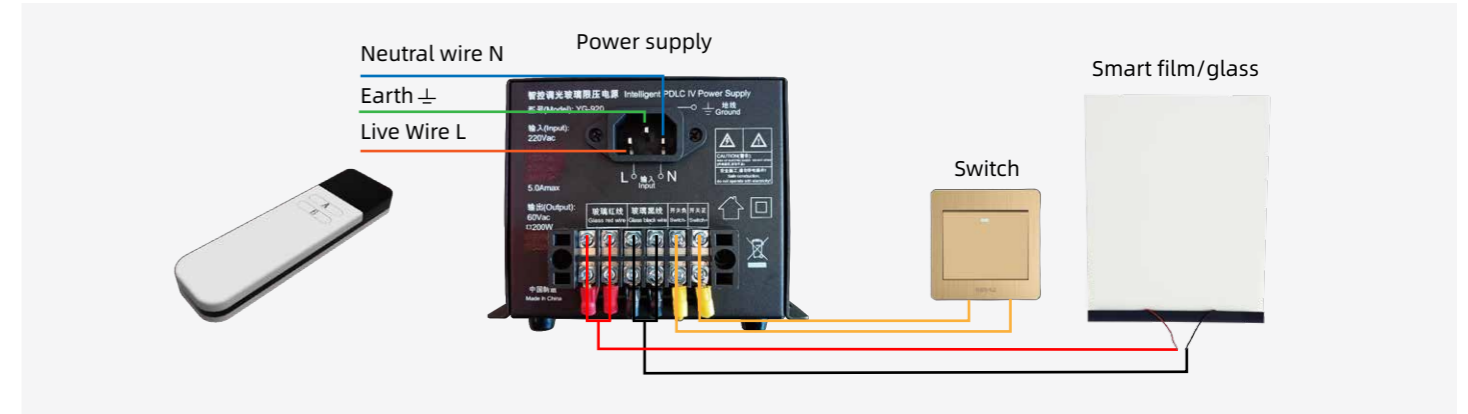
Note 1: only remote control can not go yellow line and wall switch; Only wire control, remote control can be removed.

Note 2: Shielded cables are recommended for the orange cables in the diagram. Separate cable troughs are recommended.

Note 3: The wire switch port can not be connected to any live line, only dry contact, that is, the 86 panel is only connected to our power line control port, not connected to any other line.

Note 4: Do not operate the remote control within 3 seconds of power-on. The effective distance of the remote control is 10 meters.

Use accessories: 2 key remote control, 86 panel switch (general customers own).



## Remote control/low voltage wire control - FB927 small/medium shell series

Basic Function: Control the transparency and atomization of a set of smart glasses by remote control and wall switch.

Control principle: wireless control, wall switch, control internal program control circuit, switch, remote control and wall open can realize double control.

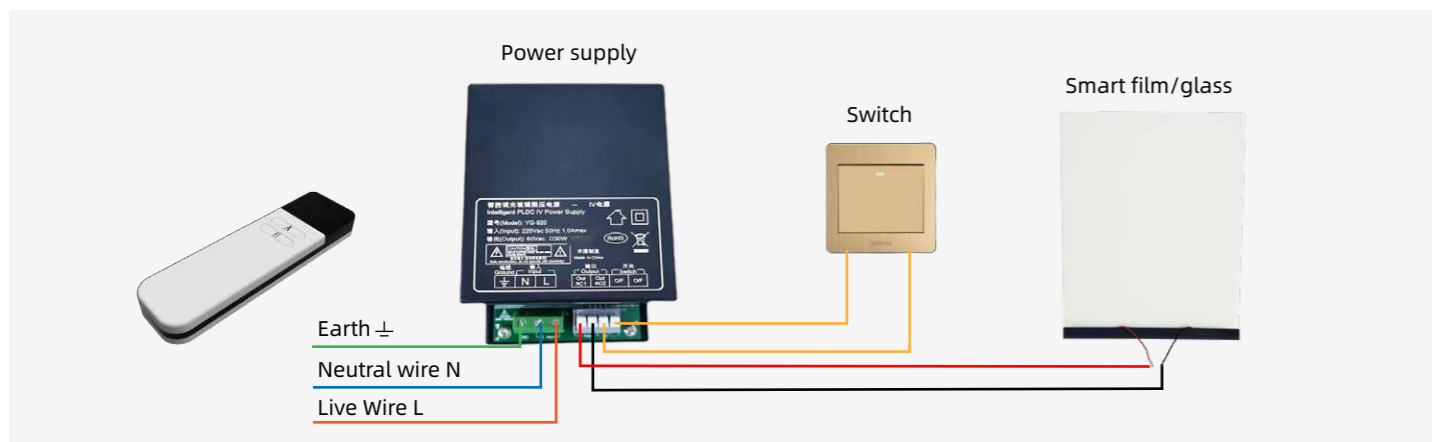
Note 1: only remote control can not go yellow line and wall switch; Only wire control, remote control can be removed.

Note 2: Shielded cables are recommended for the orange cables in the diagram. Separate cable troughs are recommended.

Note 3: The wire switch port can not be connected to any live line, only dry contact, that is, the 86 panel is only connected to our power line control port, not connected to any other line.

Note 4: Do not operate the remote control within 3 seconds of power-on. The effective distance of the remote control is 10 meters.

Use accessories: 2 key remote control, 86 panel switch (general customers own).



## Remote/low voltage wire control- FB929 series

Basic Function: Control the transparency and atomization of a set of smart glasses by remote control and wall switch.

Control principle: wireless control, wall switch, control internal program control circuit, switch, remote control and wall open can realize double control.

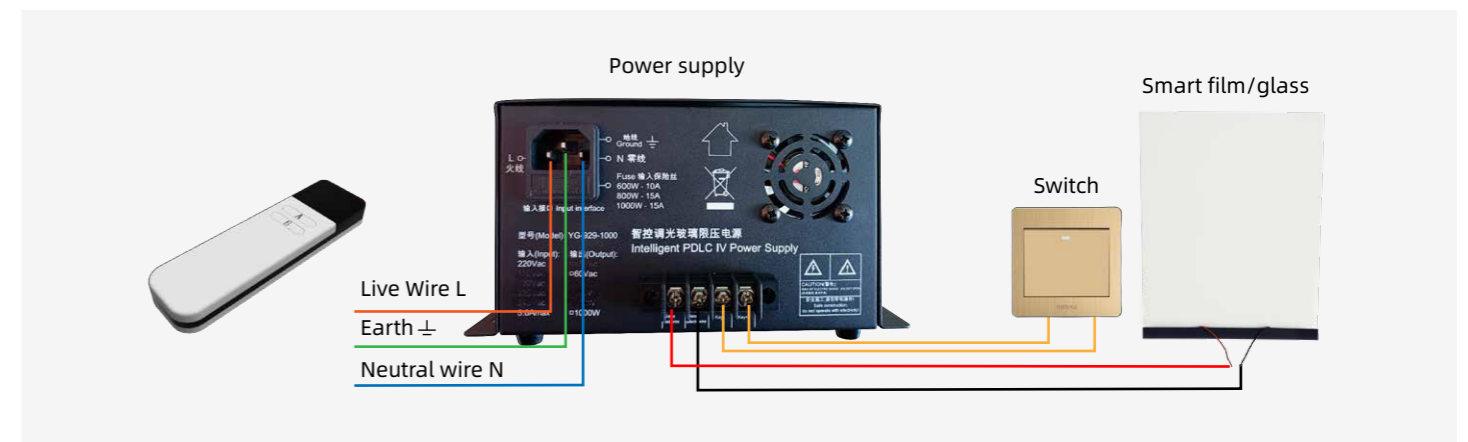
Note 1: only remote control can not go yellow line and wall switch; Only wire control, remote control can be removed.

Note 2: Shielded cables are recommended for the orange cables in the diagram. Separate cable troughs are recommended.

Note 3: The wire switch port can not be connected to any live line, only dry contact, that is, the 86 panel is only connected to our power line control port, not connected to any other line.

Note 4: Do not operate the remote control within 3 seconds of power-on. The effective distance of the remote control is 10 meters.

Use accessories: 2 key remote control, 86 panel switch (general customers own).



## Magnetic control - FB927 series, FB929 series, with wire control port products

Basic Function: Control the transparency and atomization of a set of smart glasses by door induction.

Control principle: Gate magnetic induction (spring switch), control the internal program control circuit, realize the switch.

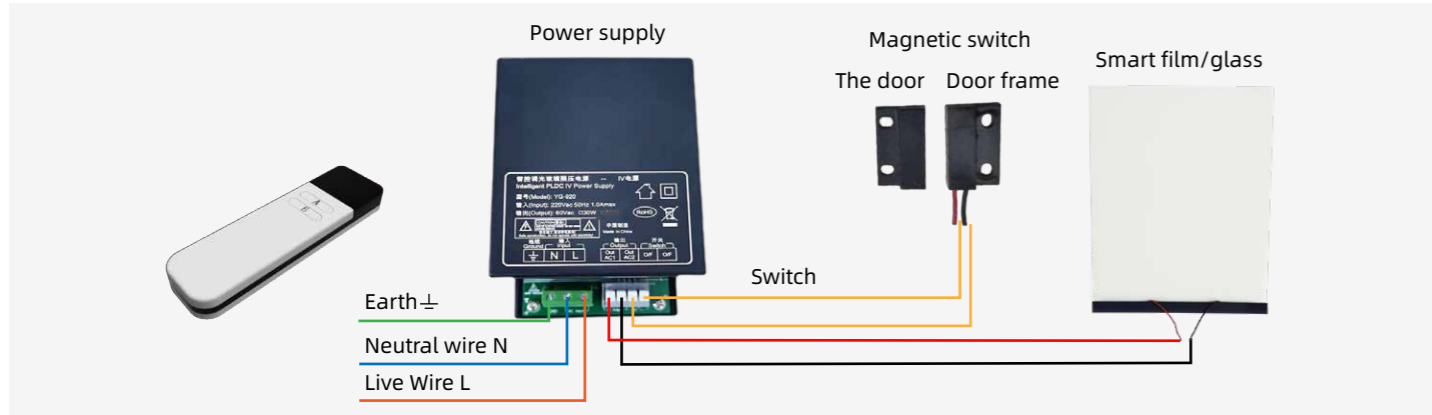
Note 1: only remote control without yellow wire and magnetic switch; Only magnetic control, remote control can be removed, remote control can be flipped on the opening and closing effect.

Note 2: Shielded cables are recommended for the orange cables in the diagram. Separate cable troughs are recommended.

Note 3: The wire switch port can not be connected to any live line, only dry contact, that is, the 86 panel is only connected to our power line control port, not connected to any other line.

Note 4: Do not operate the remote control within 3 seconds of power-on. The effective distance of the remote control is 10 meters.

Accessories to use: magnetic switch.



## Laser beam control - FB927 series, FB929 series

Basic function: To control the transparency and atomization of a set of smart glass by judging whether the laser beam is blocked by an object.

Control principle: The chip detects the received signal that blocks the laser harness.

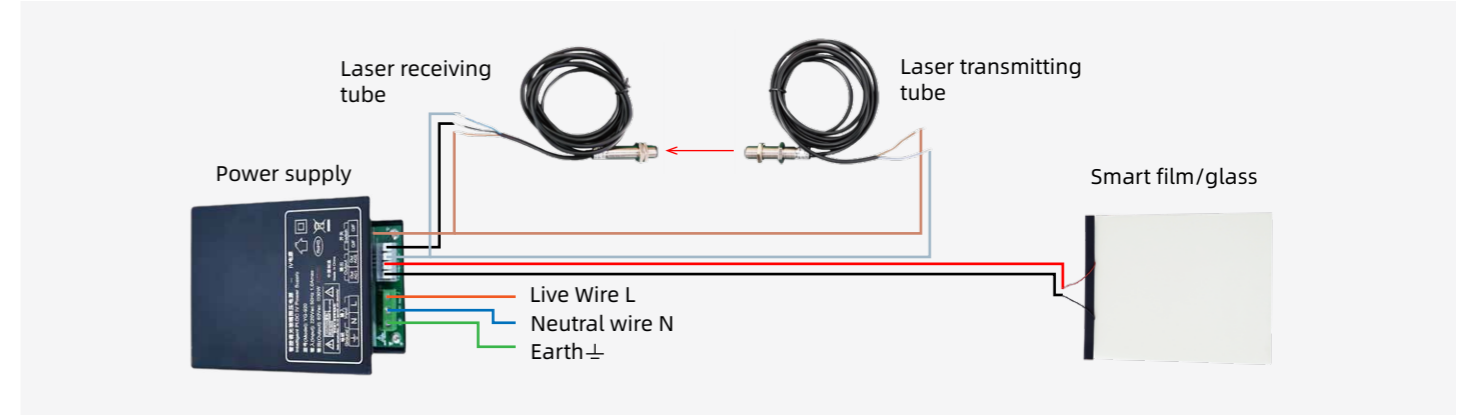
Note 1: 5V red line has been drawn from the power supply. If the inductor needs external power supply, please consult the technical personnel of the manufacturer.

Note 2: In the case of without opposite beam, the power is atomized by default, and the opposite beam is transparent (customized logic can be reversed).

Note 3: Ensure that the black line pointed by the black arrow in the diagram is routed through a separate trough, and that the black line is not routed through a trough with strong interference lines.

Note 4: The picture of the switching switch in the wiring diagram is for reference only.

Accessories to use: laser beam switch.



## High voltage human body sensing - all series of power supplies

Basic function: Through human body induction control of a set of smart glass transparency and atomization.

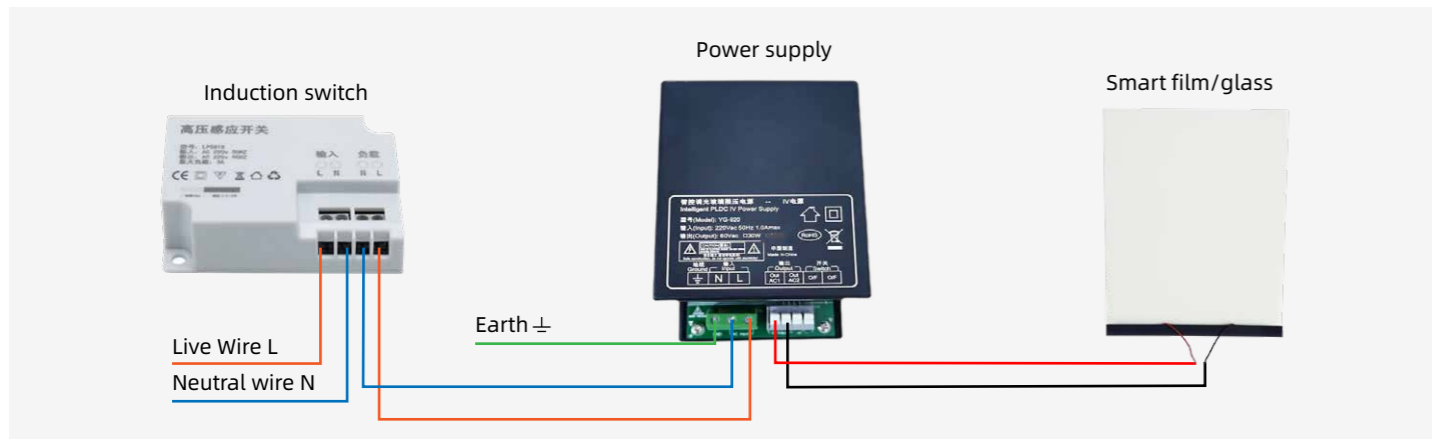
Control principle: Through the human body induction switch, on and off the input alternating current, control the transparency and atomization of dimming glass.

Note 1: The sensor picture in the wiring diagram is for reference only. The actual sensor shall prevail.

Note 2: The sensor can be infrared or radar, its principle is on and off live line, 4 ports for two into two out of the zero line inductor internal connection, 3 ports common zero line.

Note 3: The wire switch port can not be connected to any live line, only dry contact, that is, the 86 panel is only connected to our power line control port, not connected to any other line.

Use accessories: human body induction switch



## High voltage WIFI control switch connection - all series of power supplies

Basic functions: Control the transparency and atomization of a group of smart glass through mobile phone APP.

Control principle: 2.4G WIFI, APP control, AP control and LAN remote control.

Note 1: Please read the pairing mode of WIFI controller carefully.

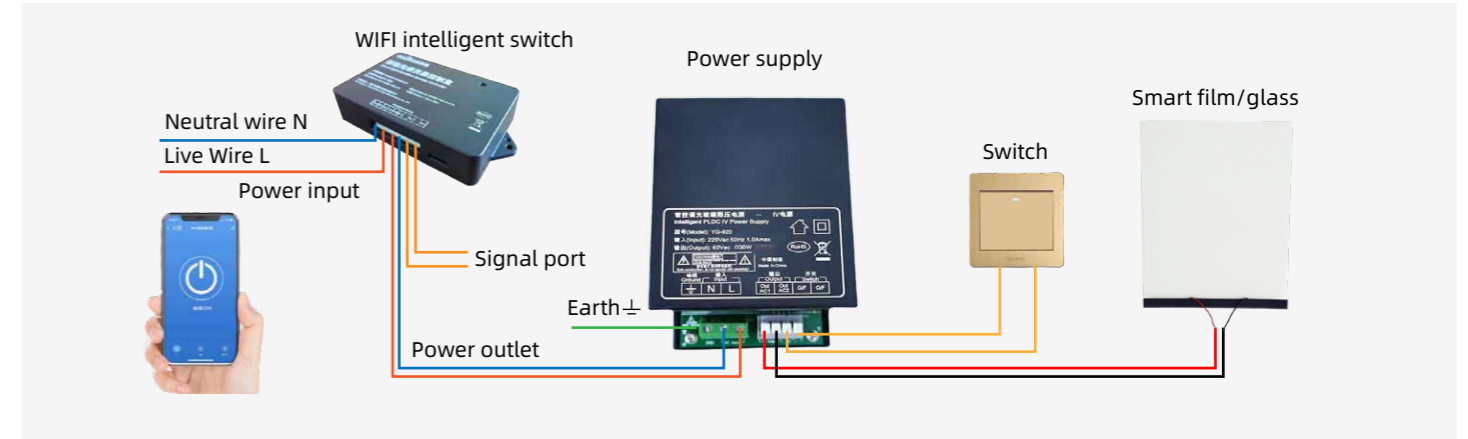
Note 2: The maximum on-load power of the WIFI switch is 500W, and the input and output of the WIFI switch box cannot be reversed.

Note 3: This smart switch can only be paired with 2.4G-WIFI signal for network access, 5G is unavailable.

Note 4: Separate cable troughs are recommended for the yellow cables in the diagram.

Note 5: The switch port cannot be connected to any live line, only to dry contacts.

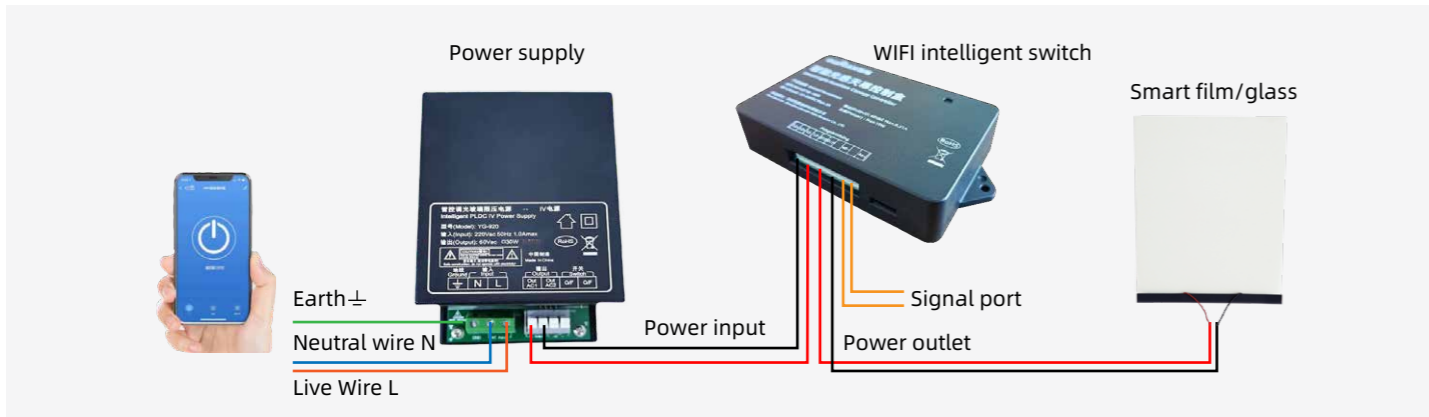
Accessory: WIFI smart switch.





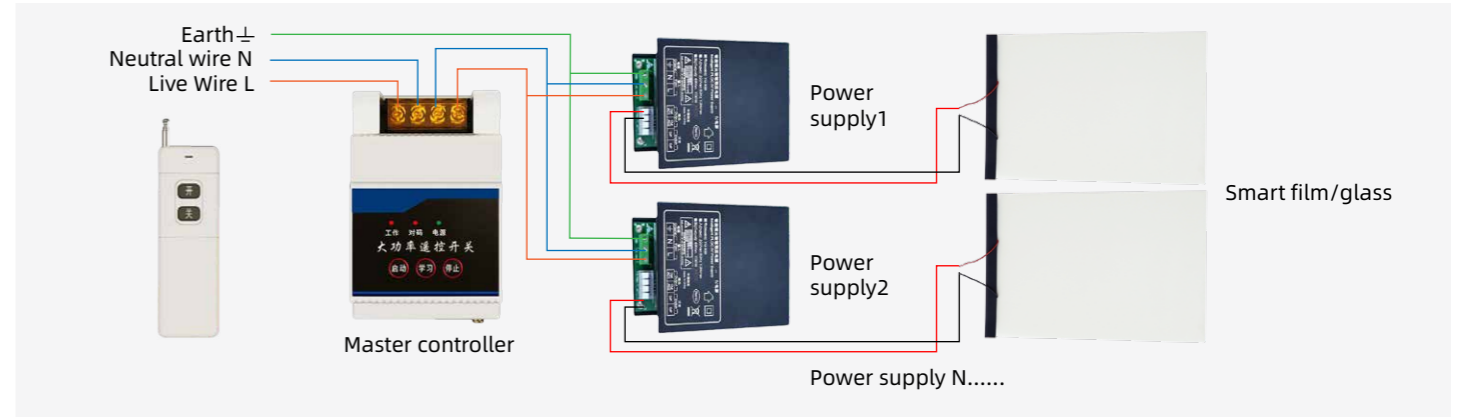
## Low voltage WIFI control switch connection - all series of power supplies

Basic functions: Control the transparency and atomization of a group of smart glass through mobile phone APP.  
 Control principle: 2.4G WIFI, APP control, AP control and LAN remote control.  
 Note 1: Please read the pairing mode of WIFI controller carefully.  
 Note 2: After connection, the maximum on-load power of the WIFI switch is 100W, and the input and output of the WIFI switch box cannot be reversed.  
 Note 3: This smart switch can only be paired with 2.4G-WIFI signal for network access, 5G is unavailable.  
 Note 4: Separate cable troughs are recommended for the yellow cables in the diagram.  
 Note 5: The switch port cannot be connected to any live line, only to dry contacts.  
 Accessory: WIFI smart switch.



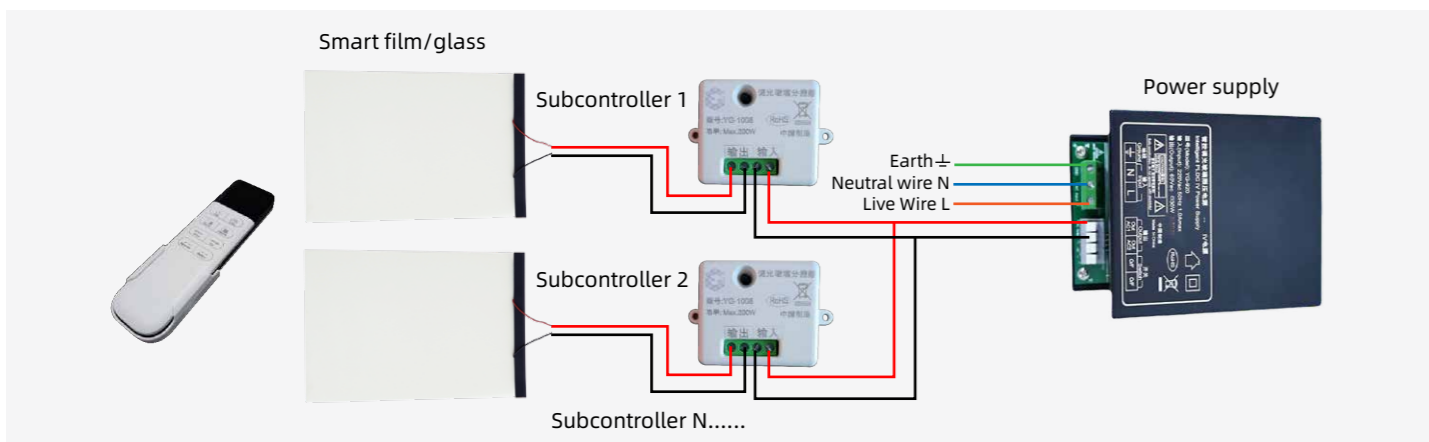
## Master Control - All series of power supplies

Basic functions: Control the transparency and atomization of large smart glass with 1 remote control.  
 Control principle: The power supply is supplied through parallel power supply, each power supply controls an area, and the AC power supply of all power supplies is switched off as a whole.  
 Note 1: The main control switch box has input and output ends, and the wiring sequence cannot be reversed.  
 Note 2: In order to ensure the sensitivity of the remote control, the position of the main control switch box should be centrally placed in the controllable area.  
 Note 3: Do not connect the switch port on the power supply to any live line, only connect to dry contacts.  
 Note 4: The picture of the main control switch in the wiring diagram is for reference only.  
 Note 5: Its principle is on and off live line, 4 ports for two into two out of the zero line inductor internal connection, 3 ports common zero line.  
 Use accessories: remote control (the number of keys is more than one road), several controller.



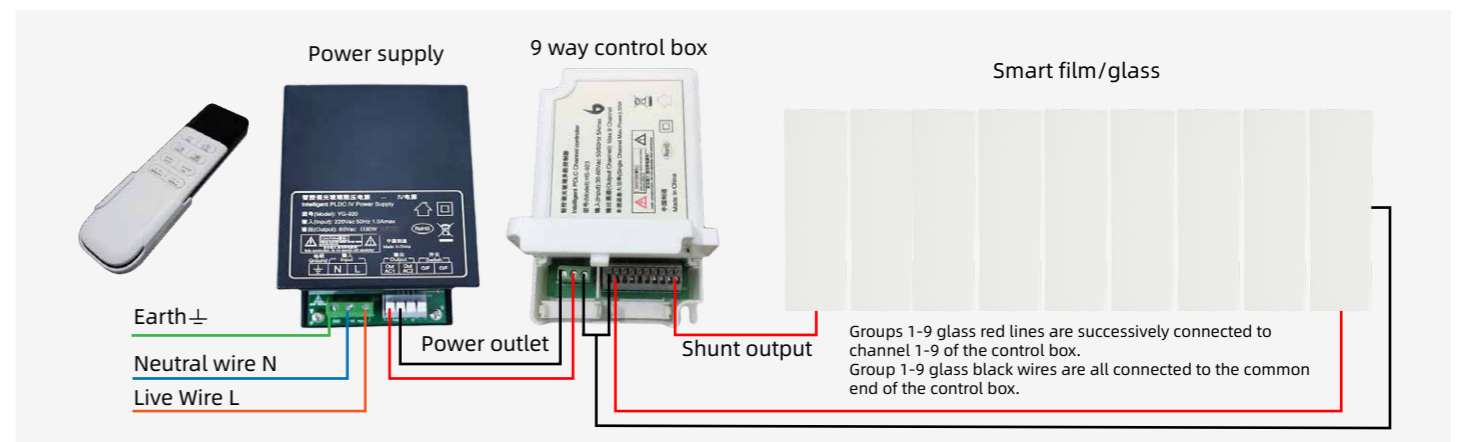
## Sub-control - All series of power supplies

Basic functions: Through 1 remote control of multiple groups of smart glass transparency and atomization.  
 Control principle: By cutting off the power supply of each branch, to achieve multiple control, each button control one switch, Set another master button, long press to open all, short press to close all.  
 Note 1: The multiway switch box has input and output ends, and the wiring sequence cannot be reversed.  
 Note 2: In order to ensure the sensitivity of the remote control, the location of the multiway switch box should be centrally placed in the remote control area.  
 Note 3: Do not connect the switch port on the power supply to any live line, only connect to dry contacts.  
 Use accessories: remote control (the number of keys is more than one road), several controller.



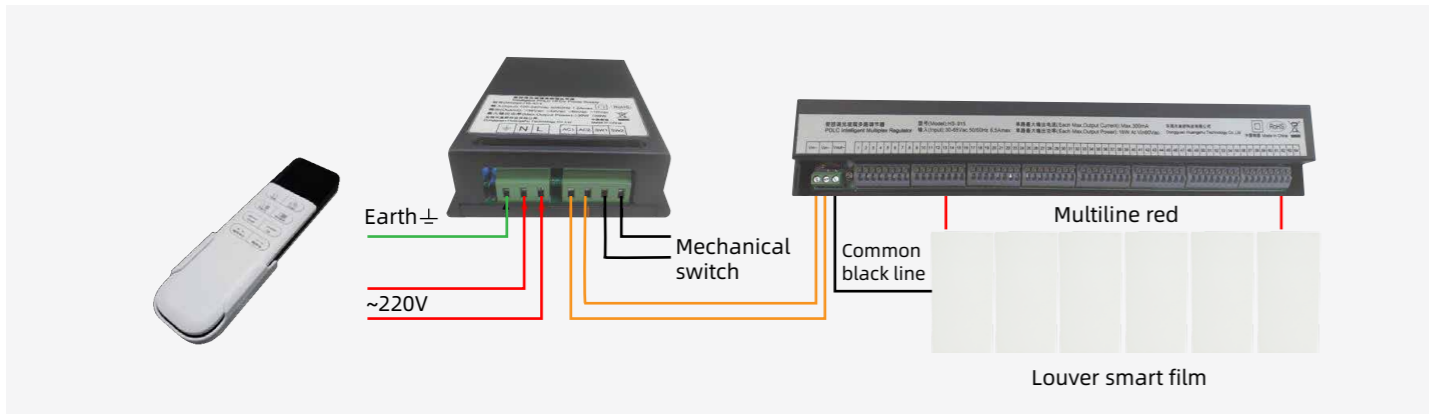
## 9 way box - All series greater than 20W power supply

Basic Function: Control multi-channel smart glass through 9 way box, do dynamic or static effect.  
 Control principle: Each switch in the multiway box is controlled by the chip to realize the transparency and atomization of each smart glass.  
 Note 1: Please carefully check the definition of the wiring terminal on the nameplate of the control box. Don't miswire.  
 Note 2: Each channel with smart glass should be less than 8 square.  
 Note 3: It is recommended to reserve a power off switch for the zero-live wire, but it cannot be used for long-term control.  
 Note 4: 9 way box can be connected to 1-9 way, not limited to all 9 way, but please refer to evaluate the actual effect;  
 Note 5: The switch port cannot be connected to any line.  
 Accessories: 9 way box, 8-button remote control.



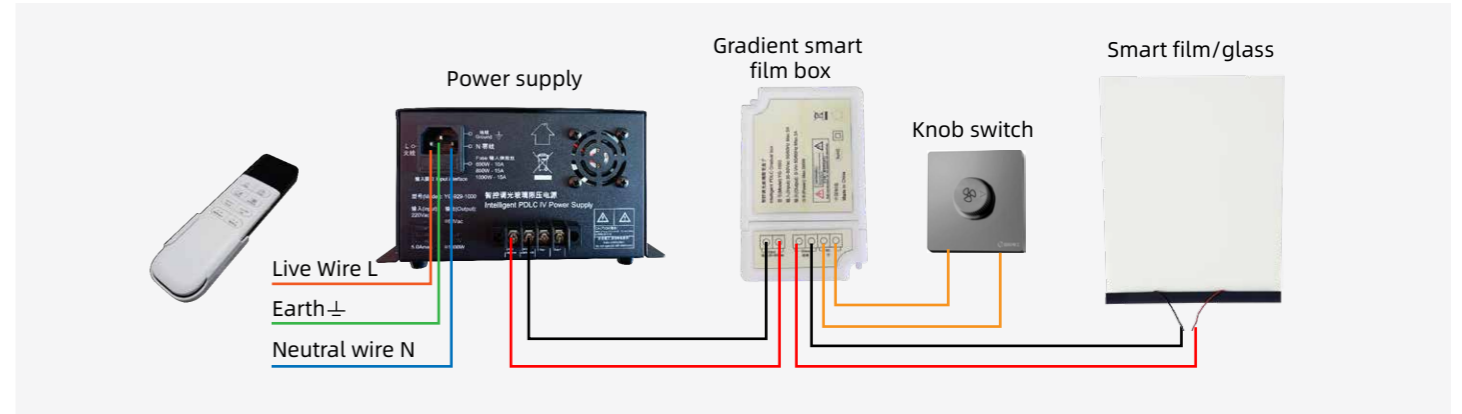
## 64 way louver controller - All series greater than 20W power supply

**Basic Features:** Control multi-channel smart glass through a 30-way or 64-way box to do dynamic or static effects.  
**Control principle:** Each switch in the multiway box is controlled by the chip to realize the transparency and atomization of each smart glass.  
**Note 1:** Please carefully check the definition of the wiring terminal on the nameplate of the control box.  
**Note 2:** The total power is 200W, and each channel carries glass with a maximum area of 1 square meter.  
**Note 3:** It is recommended to reserve a power off switch for the zero-live wire, but it cannot be used for long-term control.  
**Note 4:** Mechanical switch (O/F) port can not be connected to any live line, otherwise it will burn the motherboard.  
**Use accessories:** 64 shutter controller, 8 button remote control.



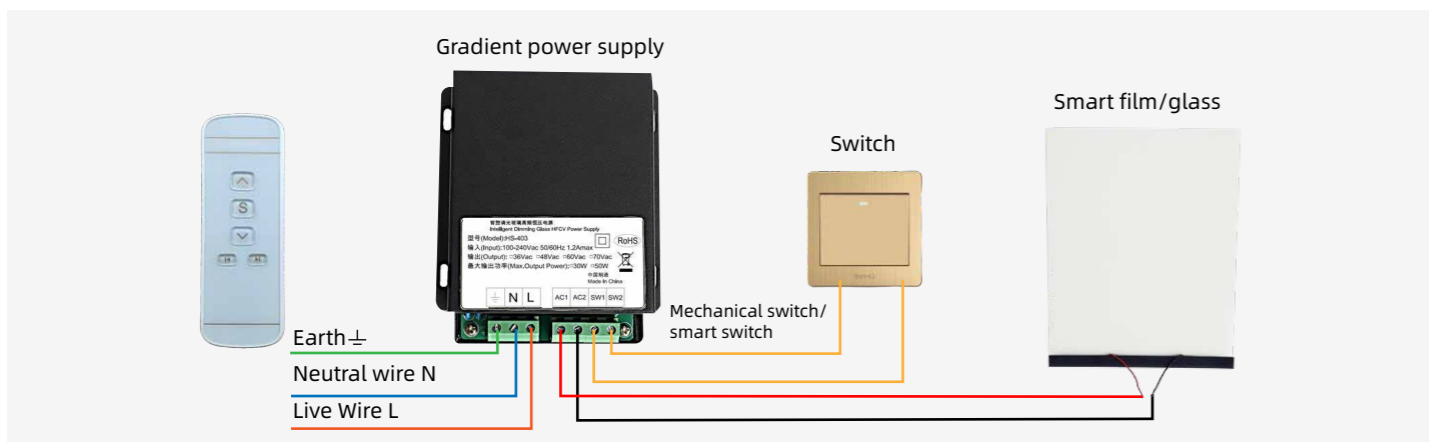
## Gradient smart film box - FB929 series

**Basic functions:** Adjustable glass switch, flicker (adjustable speed), transparency, automatic gradient (adjustable speed) by expanding gradient smart film box based on FB-929 power supply.  
**Control principle:** Through PWM voltage chopper technology, adjust the voltage amplitude applied to the glass.  
**Note 1:** The power supply should be wired separately from the communication products.  
**Note 2:** only remote control, no knob switch; Only knob switch, but no remote control.  
**Note 3:** The line between the gradient smart film box and the smart glass should not be too long.  
**Note 4:** The knob switch port can not be connected to any live line, otherwise it will burn the motherboard.  
**Accessories to use:** Gradient smart film box, 8-button remote, knob switch.



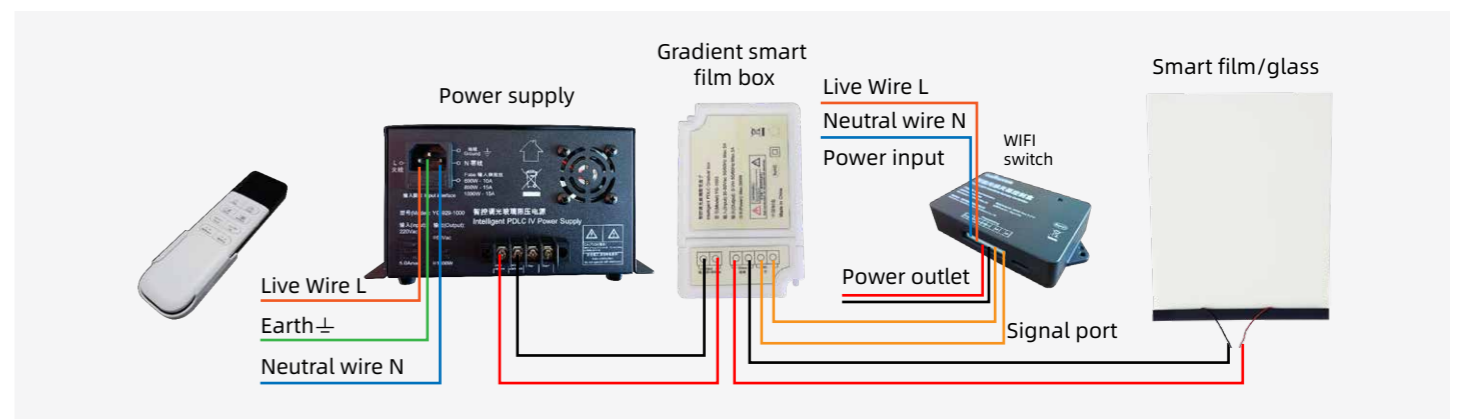
## Smart glass power supply - FB410 series

**Basic Functions:** Control transparency, atomization, flicker (adjustable speed), gradient (adjustable speed), dynamic speed of a set of smart glass by remote control and wall switch.  
**Control principle:** wireless control, wall switch, control internal program control circuit, switch, remote control and wall open can realize double control.  
**Note 1:** only remote control can not go yellow line and wall switch; Only wire control, remote control can be removed.  
**Note 2:** Shielded cables are recommended for the orange cables in the diagram. Separate cable troughs are recommended.  
**Note 3:** The wire switch port can not be connected to any live line, only dry contact, that is, the 86 panel is only connected to our power line control port, not connected to any other line.  
**Note 4:** Do not operate the remote control within 3 seconds of power-on. The effective distance of the remote control is 10 meters.  
**Use accessories:** 5 button remote control, 86 panel switch (general customers own).



## Wifi control gradient smart film -- FB929 series + Gradient smart film box +WIFI smart switch

**Basic functions:** The gradual change box can be expanded on the basis of the FB-929 power supply, and then connected with the wire-controlled box signal through the WIFI intelligent switch  
**Control and adjust the glass switch, flicker (adjustable speed), transparency, automatic gradient (adjustable speed).**  
**Control principle:** Adjust the voltage amplitude applied to the glass through PWM voltage chopper technology, and control the gradient smart film box signal through its own protocol.  
**Note 1:** The power supply should be wired separately from the communication products.  
**Note 2:** WIFI smart switch has priority, WIFI switch will reduce the transparency, the remote control can not be adjusted higher.  
**Note 3:** The line between the gradient smart film box and the smart glass should not be too long.  
**Note 4:** The signal port of the WIFI switch is connected to the gradient smart film box. Do not connect the output outlet of the WIFI switch to the gradient smart film box, otherwise the product will be burned.  
**Accessories:** Gradient smart film box, 8-button remote control, WIFI smart switch, FB-929 series power supply.



## Gradient smart film box three state connection - with FB929 series

Basic functions: Through smart home control smart glass, transparent - semi-transparent - atomization, three state switch

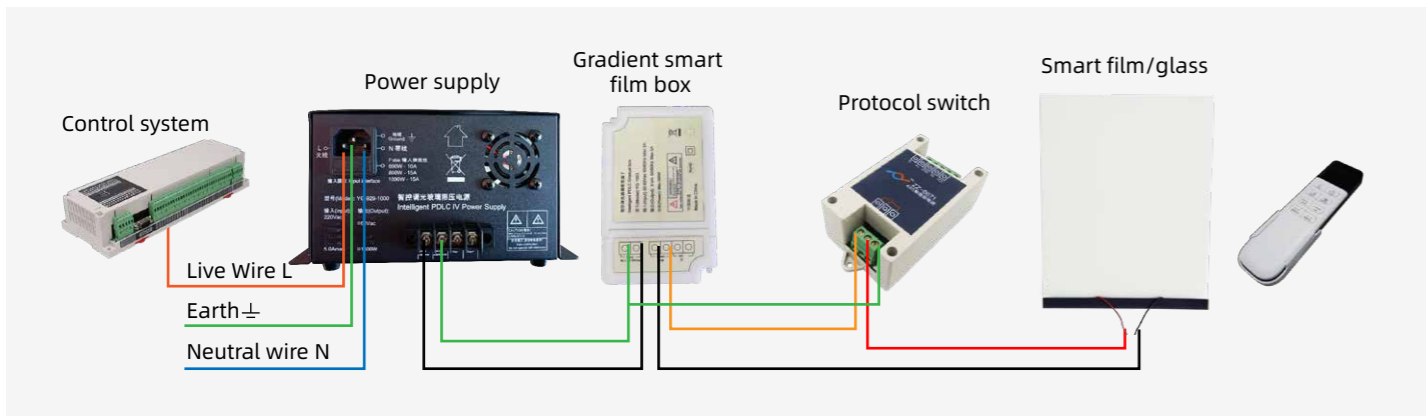
Control principle: transparent through the power supply, semi-transparent through the gradient smart film box, atomization through the system power off.

Note 1: The power supply should be wired separately from the communication products.

Note 2: The protocol switch should match the smart home control system.

Note 3: The line between the gradient smart film box and the smart glass should not be too long.

Use accessories: Gradient smart film box, 8 button remote control, control system, protocol switch.



## Remote control/low voltage wire control- FB927 Plastic-case series

Basic Function: Control the transparency and atomization of a set of smart glasses by remote control and wall switch.

Control principle: wireless control, wall switch, control internal program control circuit, switch, remote control and wall open can realize double control.

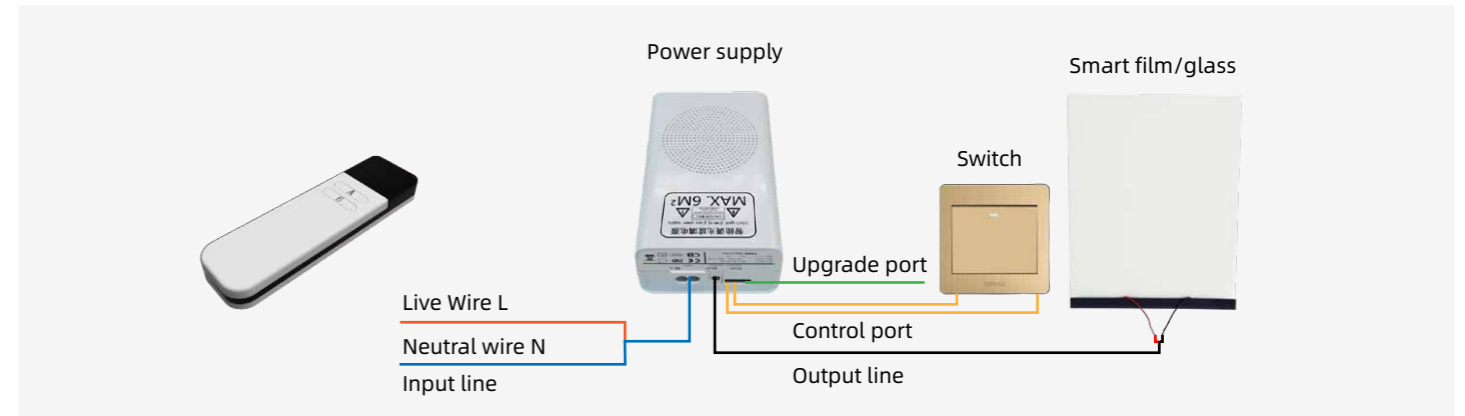
Note 1: only remote control is not connected to the wall switch control interface; Only wire control, remote control can be removed.

Note 2: The red and black cables shown on the control port in the diagram are shielded cables and separate cable trays are recommended.

Note 3: The wire switch port can not be connected to any live line, only dry contact, that is, the 86 panel is only connected to our power line control port, not connected to any other line.

Note 4: Do not operate the remote control within 3 seconds of power-on. The effective distance of the remote control is 10 meters.

Use accessories: 2 key remote control, 86 panel switch (general customers own).



## Magnetic control double control connection - with wire control port series

Basic functions: Applied to bathroom partition, toilet and bathroom any related door, can control the middle partition atomization.

Control principle: Through the door magnetic control, partition follow atomization.

Note 1: Note that the picture of the follower in the wiring diagram is for reference only. The specific object shall prevail. The follower has the direction.

Note 2: This application is only for the bathroom partition scene. If there are other similar scenes, it is not recommended to use directly. Please contact the manufacturer for details.

Note 3: Magnetic switch, magnet installed on the fixed door frame, spring switch installed on the door hinge.

Note 4: Please confirm the cable carefully during the wiring process to avoid burning. If there is any problem, contact the technical support of the manufacturer.

Accessories: Power supply 3, magnetic switch 2, follower 2.

