

14330381

Wired Inline Switch - Dual-Door

Technical Datasheet

Original Product

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I. Products Overview

What is Original Wired Switch?

An Original wired switch is a control device directly connected to the lighting system via physical cables. Unlike wireless switches, it relies on electrical wiring to transmit commands for turning lights on/off, dimming brightness, or adjusting color temperature. It's ideal for environments where a reliable, hardwired connection is preferred.

What is Original Wired Inline Switch?

The Original Inline Switch is a wired switch installed between the power source (LED Driver or Distributor) and the LED light, acting as a bridge for individual control, providing a simple and effective way to turn the light on or off without affecting other lights in the system.

What is Original Wired Inline Dual-Door Switch?

The Original Wired Inline Dual-Door Switch is a smart switch designed for cabinet lighting. It automatically turns the light on when any one of the cabinet doors is opened and only turns it off when both doors are closed. This ensures energy-efficient lighting control for cabinets with dual doors.



Applications:

Recessed or surface-mounted in cabinets.



II. Product Code

The descriptions in this document are applicable to the following products only:

Original Wired Inline Dual-Door Switch (Kernel Series).

Item Code	Input Voltage	Drill Hole	Control Method	Dimension/mm
14330381	12V/24V DC	8mm, recess installation	IR (Open/close cabinet door)	65*13*9
14330311	12V/24V DC	10mm, surface-mounted	IR (Open/close cabinet door)	65*13*9

III. Features

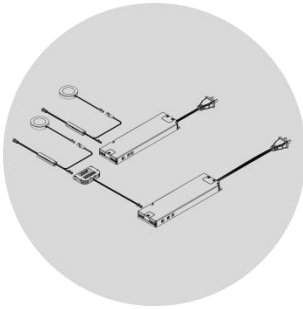
The Original “Kernel” Wired Inline Switch unlocks endless connection possibilities, empowering users to explore and discover their own way of configurations.

A switch with infinite connection gameplays.

Its main features include:

❶ A Switch that bridges power and light.

Two connectors, one for power, one for lighting.

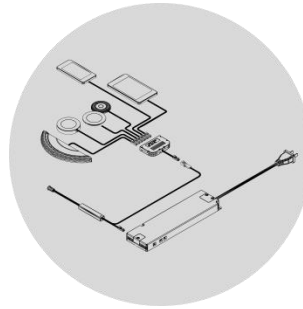


The Original “Kernel” Series Wired Inline Switch features two distinct connectors: one connects to the power source, while the other links directly to your LED lights, like a bridge to joint the two electrical parts.

With the built-in sensor positioned between the two connectors, Kernel allows you to control each light individually, providing precise and customizable lighting management for any environment.

❷ There is always a new gameplay.

Get power from LED Driver, distributor or more.



With the Original Kernel Wired Inline Switch, you can tap into a world of possibilities. Its power connector effortlessly connects to a variety of sources—LED drivers, distributors, receivers, and beyond. This adaptability empowers you to configure your lighting system in innovative ways, ensuring your setup is as dynamic and versatile as your imagination.

Users can continually discover and develop new gameplay and innovative configurations for their lighting systems.

❸ Automatic smart control.

It works without noticing.

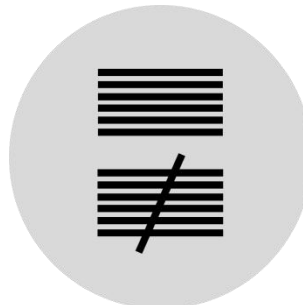


The Original Wired Inline Dual-Door Switch offers automatic smart control that operates seamlessly without the need for manual intervention.

It detects when any one of the cabinet doors is opened, turning the light on instantly. When both

❹ Optional control logic.

Sync, or async, it's up to you.

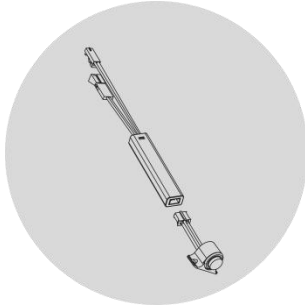


With the Original Kernel Wired Inline Switch, you have the power to choose how your lighting operates. Opt for synchronized control, allowing all lights to turn on, off, or adjust brightness simultaneously with a single Kernel unit. Alternatively, use distributors to manage your lights

doors are closed, it automatically turns the light off, working silently in the background without the need for constant attention.

5 Detachable body and connectors.

Installation is markedly simplified.



“Kernel” features a detachable design for its processor body, detector, power connector, and LED connector. This modularity simplifies installation, allowing users to easily push wires through wood panels and other surfaces without hassle.

Each component can be easily detached and reconnected, exemplifying our vision to provide simple, intuitive lighting solutions that make your setup straightforward and user-friendly.

7 Aesthetics is brought to a higher level.

The detector is so small that it does the job without noticing.



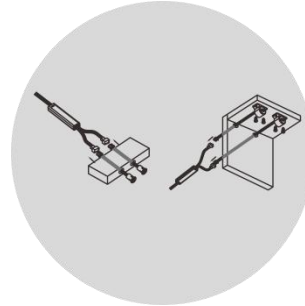
“Kernel” elevates your lighting aesthetics with its discreet design, thanks to its incredibly compact detector that seamlessly integrates into any environment without drawing attention.

This minimalist approach allows you to enjoy the

asynchronously, giving you the flexibility to control each light independently at different times.

6 Optional mounting type.

Recess or surface mounting, simultaneously supported.



The Original Kernel Wired Inline Switch provides flexible mounting options to suit your preferences.

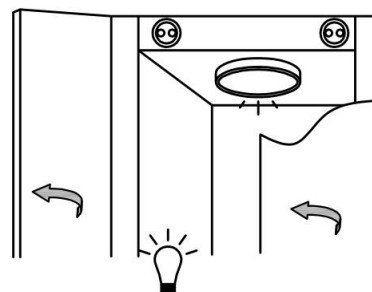
Recessed mounting enhances aesthetics by allowing the switch to blend seamlessly into your space, creating a clean and unobtrusive look.

On the other hand, surface mounting is designed for ease of installation, made possible by an additional surface-mounting base included in the package.

Whether you prioritize style or simplicity, Kernel has you covered, allowing you to achieve the perfect balance in your lighting setup.

8 Energy-Efficient.

Light up only when it’s in use.



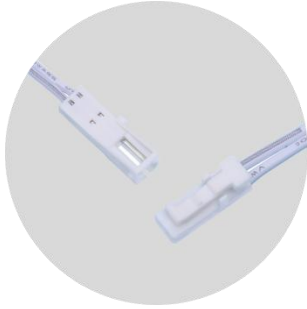
This hands-free control of the dual-door switch eliminates the need to manually turn off the light, which helps reduce electricity consumption and extends the lifespan of the light source.

Whether in kitchens, bathrooms, or wardrobes, this

functionality of advanced lighting control while maintaining a clean, uncluttered look in your space, enhancing the elegance without compromise.

⑨ Plug and Play.

Disconnect and reconnect the power and light as many times as you like.



“Kernel” embraces a user-friendly design with its plug-and-play functionality. You can easily disconnect and reconnect the power and light whenever you need, allowing for effortless adjustments or maintenance without hassle.

The universal Dupont connector adopted by “Kernel” realizes seamless compatibility with third-party LED drivers and LED lights, extending your choices and reducing your inventory.

smart functionality guarantees that the lights are always on only when needed, promoting sustainability and reducing utility costs.

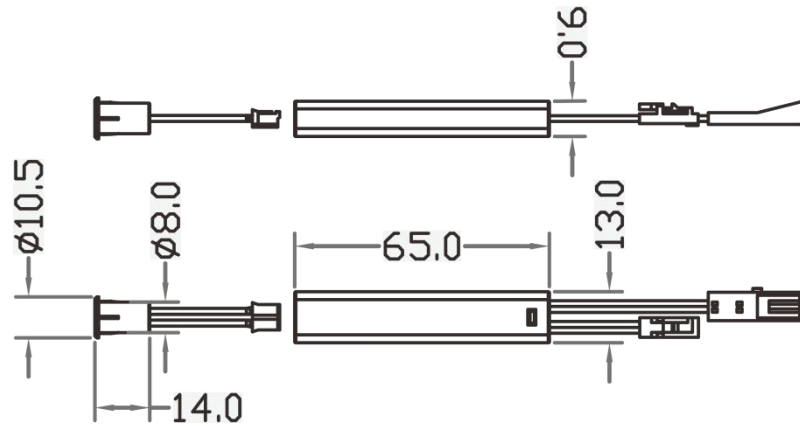
⑩ Works with both 12V and 24V.

One switch handles both 12V and 24V systems.



“Kernel” is designed for ultimate convenience, allowing you to use a single switch for both 12V and 24V lighting systems. This compatibility eliminates the need for multiple switches, so whether you're working with a 12V setup today or fitting with a 24V system in the future, you can rely on the same Kernel switch to provide consistent performance.

IV. Dimensions & Structures



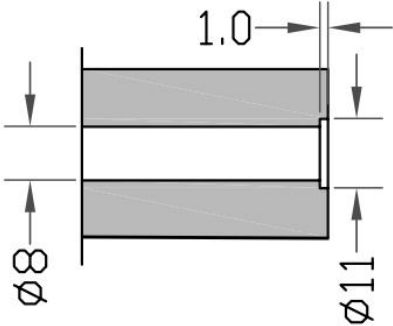
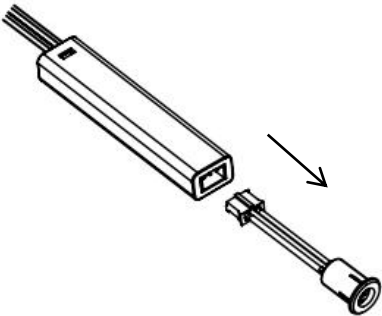
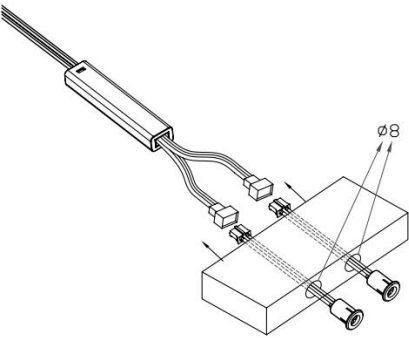
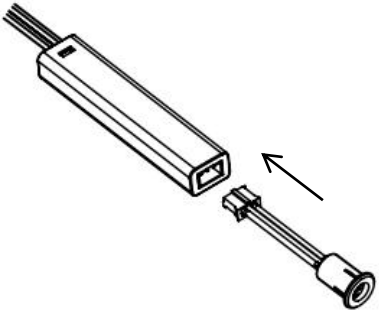
No.	Picture	Structure name
1	See above	Sensor detector
2	See above	Wire (detector to sensor body, detachable)
3	See above	DuPont male connector (connect LED driver)
4	See above	DuPont female connector (connect LED light)
5	See above	Wire (sensor body to power and light)
6	See above	Sensor body

V. Specifications

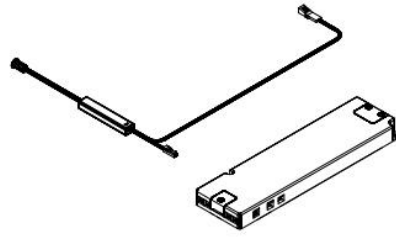
Parameter	Value
Input voltage:	12VDC/24VDC, both supported
Output voltage:	12VDC, 24VDC, both supported
Output current:	3A max.
Static working current:	6mA
Functions:	Open any one of the doors to turn on lights, close both doors to turn off lights.
Detection range:	5~12cm
Installation:	Recessed/Surface-mounted, optional
Waterproof rating (IP)	IP20
Dimensions (sensor body):	65*13*9mm
Dimensions (sensor detector):	Φ10.5*14mm
Dimension (drilling hole)	Φ8mm
Connection cable length (to detector)	1000mm
Connection cable length (to power)	1000mm
Connection cable length (to lamp)	1000mm
Connection cable assembling	Wire (detector to sensor body) is detachable; Wire (sensor body to power and light) is pre-assembled in factory.
Materials:	Plastic
Product color:	Customizable, black typ.
Operating temperature (C °)	-20~45 °C
Warranty period:	5 years

VI. Installation

How to install (recess) Original Wired Inline Dual-Door Switch?

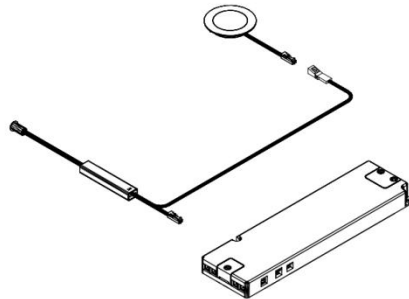
No.	Picture	Structure name
Step 1: Drill the Hole		Using a drill, create a hole from the front of the cabinet panel to the back, where the switch will be installed. The diameter of the hole should be 8mm to fit the wire and sensor components comfortably.
Step 2: Detach the Wire (Detector to Sensor Body)		Carefully detach the detachable wire that connects the sensor detector to the sensor body. This step makes it easier to pass the wire through the drilled hole and allows you to handle the wire more efficiently during installation.
Step 3: Push the Wire and Detector Through the Panel		From the front of the cabinet panel, push the wire and detector through the hole toward the back. Ensure that the detector is positioned on the front side of the panel, as this will detect the movement. You can use a thin rod or push tool to help guide the wire through the hole if necessary.
Step 4: Reattach the Detachable Wire		Once the wire and detector are in place, reattach the detachable wire to connect the sensor detector to the sensor body. This should be done securely to ensure proper function and avoid any loose connections.

Step 5: Connect the DuPont Male Connector to the LED Driver

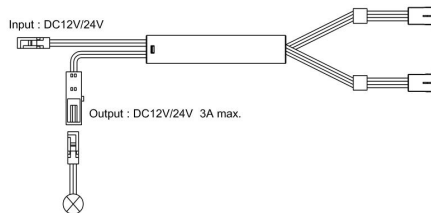


Now, take the DuPont male connector and connect it to the LED driver. This connection ensures that the switch will be able to control the power to the LED lights. Ensure that the connection is snug and secure.

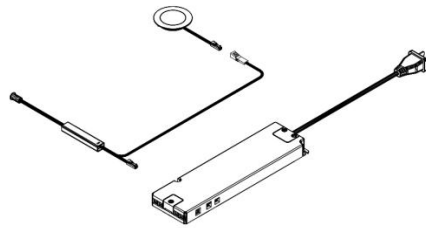
Step 6: Connect the DuPont Female Connector to the LED Light



Next, take the DuPont female connector and plug it into the LED light. This completes the power circuit, allowing the Dual-Door switch to control the light's on/off.

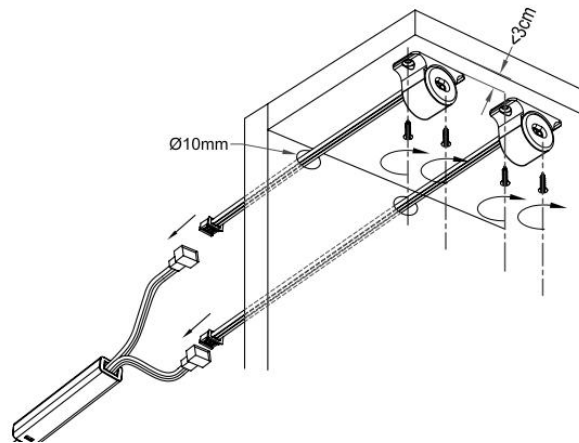


Step 7: Power Up and Test the Sensor



Finally, connect the power supply and turn on the system. Test the Ariginal Wired Inline Dual-Door Switch by opening the door to turn the light on, and closing doors to turn off. Ensure the sensor is working properly and that the light responds to your actions.

How to install (surface-mounting) Original Wired Inline Dual-Door Switch?



Step 1: Drill the Hole

Using a drill, create a hole through the back panel of the cabinet or wood panel where the wire will pass through. The hole should have a diameter of 10mm to accommodate the wire and sensor components comfortably.

Step 2: Screw the Mounting Base

Screw the mounting base onto the underside of the wood panel or desired mounting surface. Ensure the base is firmly attached and aligned. The distance between the detector to the edge of the panel should be less than 3cm.

Step 3: Detach the Wire (Detector to Sensor Body)

Detach the detachable wire that connects the sensor detector to the sensor body to make it easier to route the wires through the mounting bracket.

Step 4: Route the Cables Through the Mounting Bracket

Carefully route the cables through the mounting bracket. Ensure that the cables are not pinched or damaged during this step.

Step 5: Clip the Mounting Bracket into the Mounting Base

Clip the mounting bracket into the mounting base. They will automatically lock into place, securing the sensor in position.

Step 6: Reattach the Wire and Connect

Reattach the detachable wire between the sensor detector and sensor body. Then, connect the DuPont male connector to the LED driver and the DuPont female connector to the LED light.

Step 7: Power Up and Test

Once everything is connected, power up the system and test the sensor by opening/closing the cabinet doors.

Additional Tips:

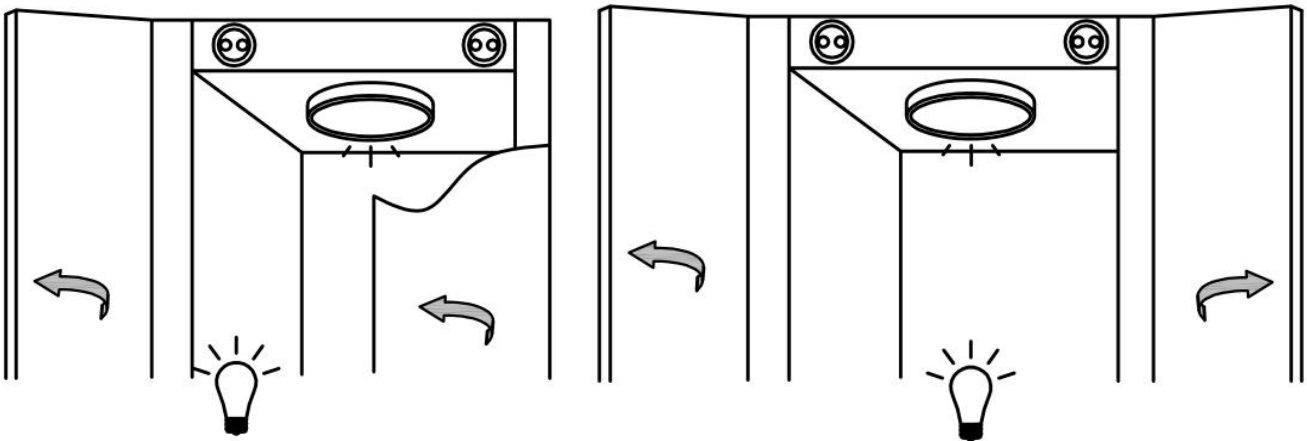
- **Positioning the Sensor:** Make sure the sensor detector is positioned in a location where it can easily detect hand movements, such as near the edge of the cabinet or furniture panel.

- Wire Management: Use cable clips or zip ties to neatly organize any excess wires behind the panel, ensuring that everything stays tidy and secure.
- Testing Before Final Assembly: It's always a good idea to test the connections and functionality of the switch before fully assembling or securing everything in place.

VII. Usage

The Original Wired Inline Dual-Door Switch is designed to provide automatic lighting control in cabinets with dual doors. This guide will walk you through how to use the switch effectively to ensure hassle-free and energy-efficient lighting.

Opening the Cabinet:



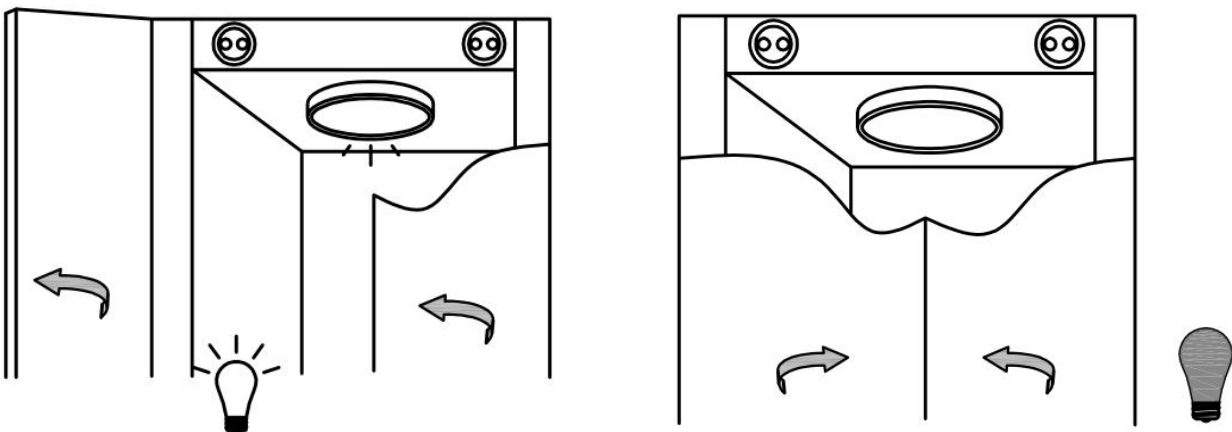
Open one door, lights on.

Open two doors, lights on.

As soon as you open either of the two doors on the cabinet, the light will automatically turn on. There is no need to press any button or flip a switch.

The sensor built into the switch detects the change in position of the doors and activates the light.

Closing the Cabinet:



Close one door, lights on.

Close both doors, light off.

When one door is closed, the light will remain on, as the switch needs both doors to be closed in order to turn off.

This ensures that when accessing the cabinet, the light stays on even if only one door is shut.

The light will automatically turn off only when both cabinet doors are closed. Once the second door is closed, the switch will detect the position of the doors and turn off the light to conserve energy.

Troubleshooting:

Light Does Not Turn On:

Check that one of the cabinet doors is indeed open. If the door is not aligned with the sensor, it may not trigger the light.

Ensure that the switch is correctly connected to both the LED driver and the light itself.

Light Won't Turn Off:

Verify that both doors are fully closed. The light will not turn off until both doors are in the closed position. Check for any obstructions or misalignment in the door or switch mechanism that may prevent the switch from recognizing the closed door.

Summary:

The Ariginal Wired Inline Dual-Door Switch provides hands-free, energy-efficient lighting control for cabinets with dual doors. By automatically turning the light on when a door opens and turning it off when both doors are closed, it ensures that the lights are always only on when needed, saving energy and reducing the chance of leaving lights on unintentionally.

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