

SL-PPNBS-REC01MONO

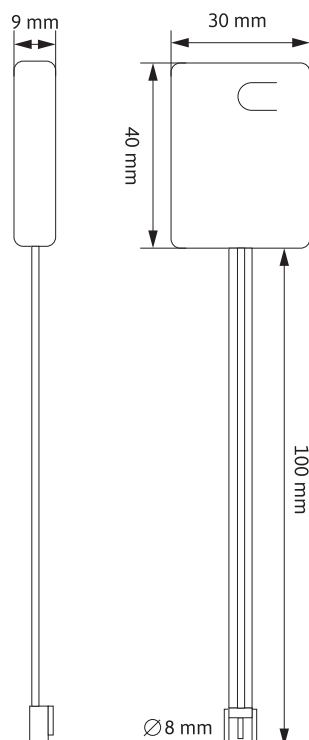
24V DC MONO MINI Receiver

**PRODUCT FEATURES**

- ▶ 24V DC MONO MINI receiver as receiver for PUSHPOWER switch
- ▶ Ready to plug in for connection to SIRO 24V DC power supplies SL-NTS24CV18W-CA, SL-NTS24CV36W-CA, SL-NTS24CV60W-CA, SL-NTS24CV100W-CA, SL-NTS24CV150W-CB
- ▶ The receiver can store up to ten buttons.
This means, for example, that you can connect both buttons with a 2-way switch and up to four buttons with a 4-way switch.
A total of up to ten different commands are possible.
- ▶ Radio-based range up to 30 meters (indoors).
- ▶ Functions: ON - OFF - DIMMING
- ▶ Product has a memory function (last light setting)

ASSEMBLY

- ▶ The product can be stuck on or placed individually

TECHNICAL DRAWING**DIMENSIONS**

- ▶ Housing dimensions (LxWxH): 40 x 30 x 9 mm
- ▶ Cable length & AWG: 100 mm | 3pin - 24 AWG

TECHNICAL FEATURES

- ▶ Transmission protocol: RF 433 mhz
- ▶ Range: 30 meters (indoors)
- ▶ IP rating: IP20
- ▶ Voltage: 24 V DC
- ▶ Output power: max. output power depending on power supply type 18 watts / 36 watts / 60 watts / 100 watts / 150 watts

**SAFETY AND INSTALLATION INSTRUCTIONS**

- ▶ This product is not a toy and is not suitable for children!
- ▶ The SIRO LED system is only suitable for indoor use.
- ▶ Unprotected outdoor use is not permitted.
- ▶ Contact with moisture must be avoided at all costs!

SL-PPNBS-REC01MONO

24V DC MONO MINI Receiver

Ideally combinable with the following SIRO PushPower products:

Switch: SL-PP55W2K1, SL-PP55W2K60, SL-PP55W4K1, SL-PP55W4K60, SL-PPA55W2K1, SL-PPA55W2K60, SL-PPA55W4K1, SL-PPA55W4K60, SL-PPI55W2K1, SL-PPI55W2K60, SL-PPI55W4K1, SL-PPI55W4K60, SL-PP40K1, SL-PP40K60, SL-PP40W2K1, SL-PP40W2K60, SL-PP62K1, SL-PP62K60, SL-PPDOOR01K1, SL-PPDOOR01K60, SL-PP86IPW2K1, SL-PP86IPW2K1

GENERAL FUNCTIONS

1, 2, 3, 4

Single click:

Click and hold:

Click and hold when switched off:

Single click with door sensor:

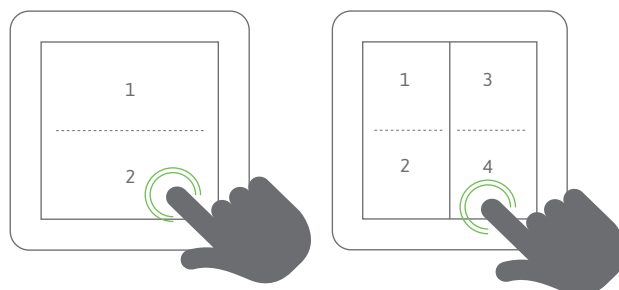
1-, 2- or 4-way buttons

Switching on or off

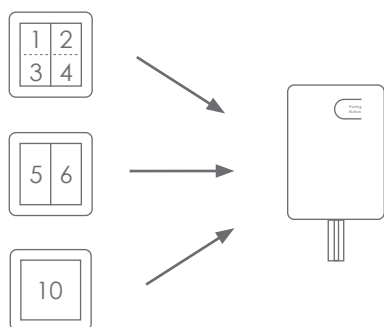
Dimming 5 - 100%

Night mode (5% brightness)

Switching on or off

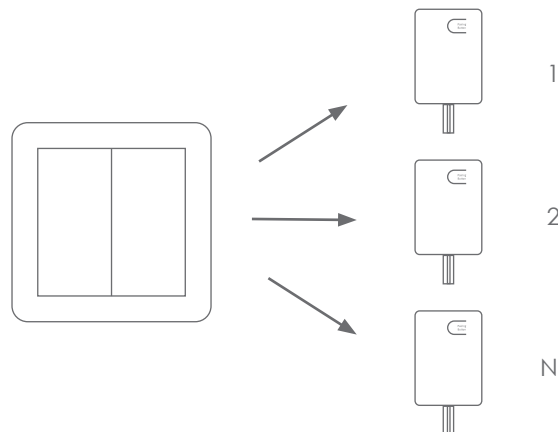


POSSIBLE COMBINATIONS



More controls on one receiver

a maximum of 10 PushPower buttons (sensors, push buttons, etc.) can be connected to one receiver.



One control on several receivers

1 PushPower control unit can control any number of receivers.

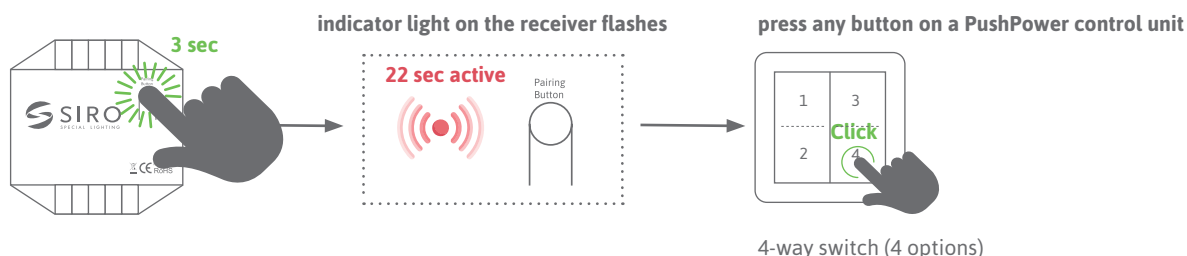
Radio range (depending on the local conditions) up to 30 m indoors



FUNCTIONS IN DETAIL

CONNECT (TEACH-IN) CONTROL UNIT (SWITCH) & RECEIVER

This is how you establish communication between the switch and your receiver:



press and hold for 3 seconds

The activity mode remains active for 22 seconds, after which the teach-in process is canceled and the light switches off.

The learning process can be canceled by disconnecting the power.

Each button/option (1&2) can be assigned its own function/option. If it is not assigned, this is a space bar.

SINGLE CLICK - ON/OFF

A single click refers to a single, brief press of the light switch.

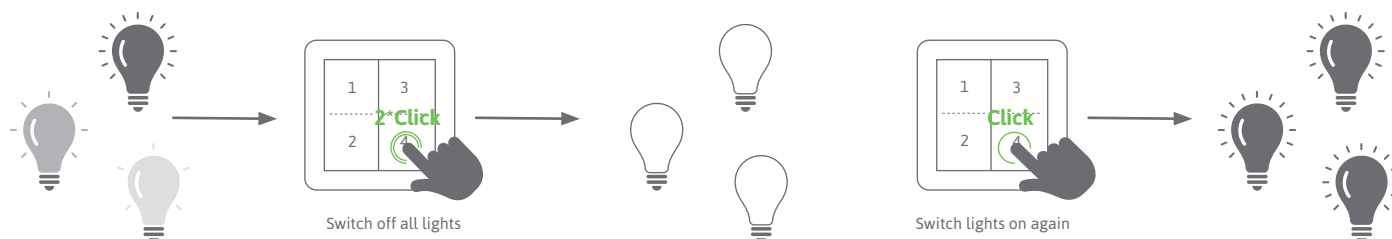


With SIRO light switches, a single click is used to switch the connected light source on or off.

This corresponds to the basic function of a switch, where a single click changes the status of the lighting.

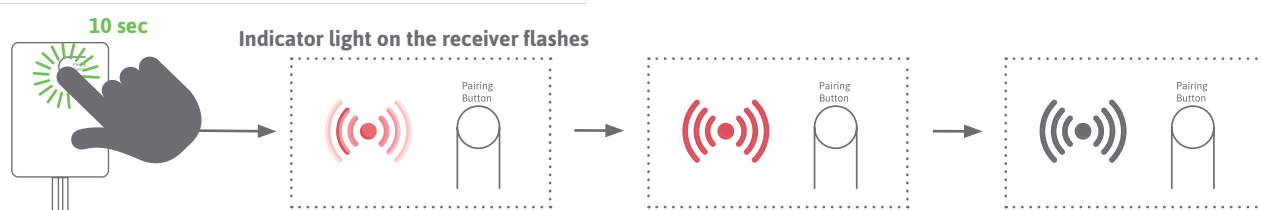
DOUBLE CLICK - SYNCHRONIZE

A double click refers to pressing the light switch twice in quick succession.



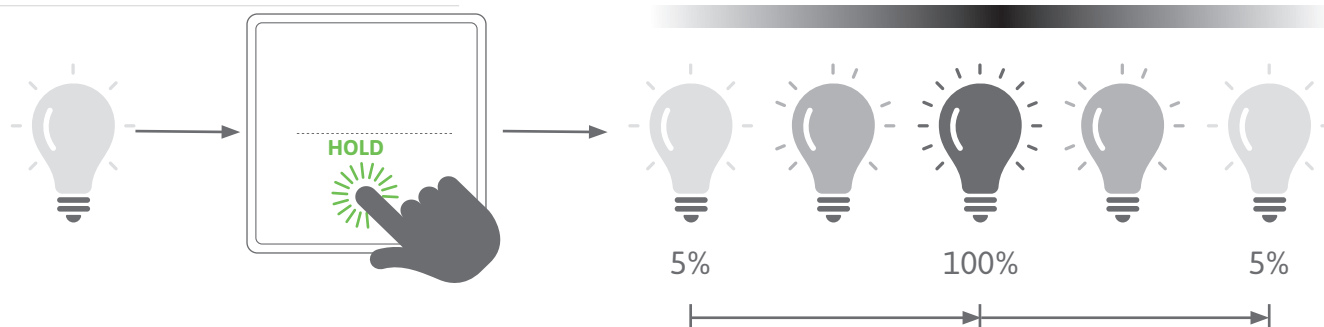
All lights are switched off. This function is used to synchronize several lights when they are running asynchronously.

RESET RECEIVER / FACTORY STATUS



Press and hold for 10 seconds. All connections are now deleted and the receiver is ready for a new link.

SLOW CLICK / Hold - DIMMING

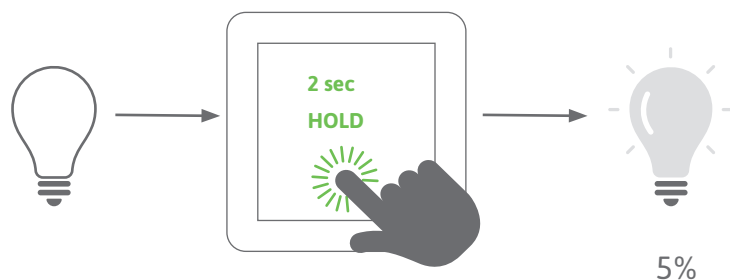


A longer press on the switch can be used to continuously increase or decrease the brightness or color temperature.

This enables precise adjustment of the lighting according to individual preferences. By default, the light starts at 50% brightness.

Pressing and holding the dimming function starts the light with cyclical dimming.

SLOW CLICK WHEN LIGHT IS SWITCHED OFF / NIGHT MODE

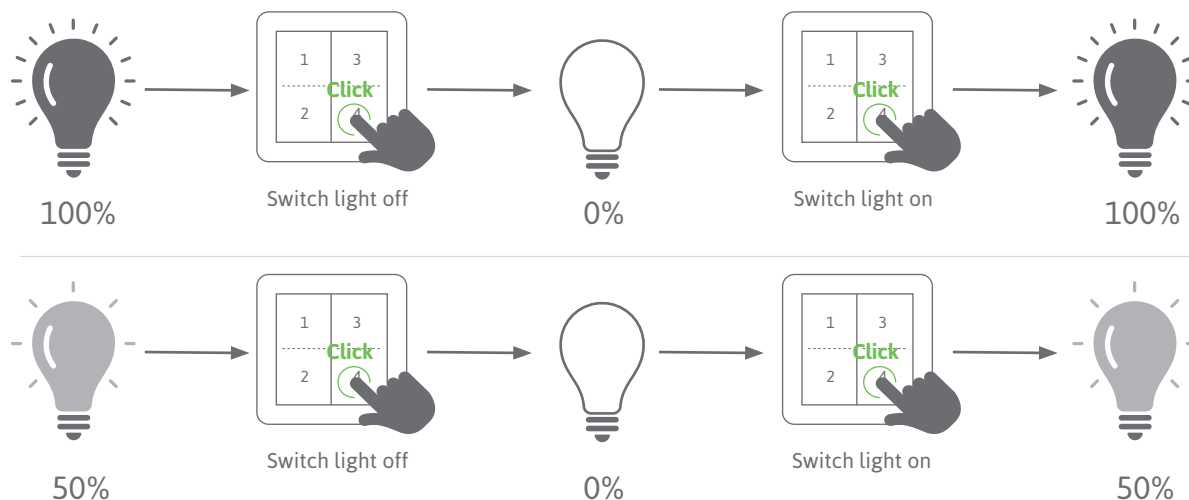


A longer press (2 seconds) on the switch when it is switched off can be used to activate the night light.

The light starts at 5% brightness.

MEMORY FUNCTION

The system always remembers the last setting of the lighting situation before switching off. (power failure)

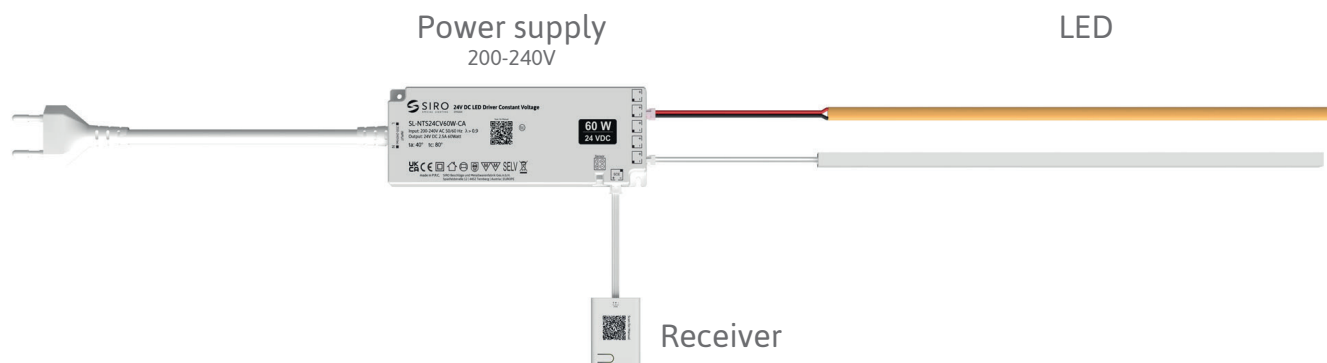


CONSTRUCTION OF A CORRECT SIGNAL CHAIN

POWER SUPPLY (TRANSFORMER) - RECEIVER - LIGHT SOURCE (LED strips)

Correct installation of the signal chain ensures reliable operation of your SIRO light switch.

Make sure your light sources are compatible with the power supply. Be sure to test the functionality before installation.



POWER SUPPLY (power source):

A power supply is a device that converts electrical energy from a wall outlet into a form that can be used by electronic devices.

1) Connect the power supply:

- ▶ Connect the power supply to a suitable power source (socket).
- ▶ Make sure that the power outlet and power supply cable are equivalent to the technical requirements.

2) Voltage adjustment:

- ▶ Dimension the power supply to suit the light sources used.
- ▶ We recommend dimensioning the power supply up to 20% larger than the achieved system performance.
- ▶ It is important that the total load of the connected devices is 20% below the maximum load of the power supply/receiver.

2) Safety measures:

- ▶ Make sure the power supply is protected from moisture and located in a well-ventilated area.

CALCULATION EXAMPLE 1:

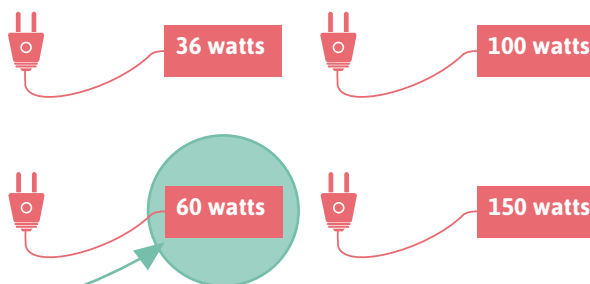
For a project, we're using three 11W/m LED strips SL-2M8C11W27-5MA: 1 x 220 cm and 2 x 90 cm.

$$1 \times 220 \text{ cm} \rightarrow 2,2 \times 11 = 24,2 \text{ watts}$$

$$2 \times 90 \text{ cm} \rightarrow (0,9+0,9) \times 11 = 19,8 \text{ watts}$$

$$\text{calculated system power} = 44,0 \text{ watts}$$

$$+20\% \text{ system buffer} = 52,8 \text{ watts}$$



We therefore recommend a 60-watt power supply.

e.g.: SL-NTS24CV60W-CA

CALCUTATION EXAMPLE 2:

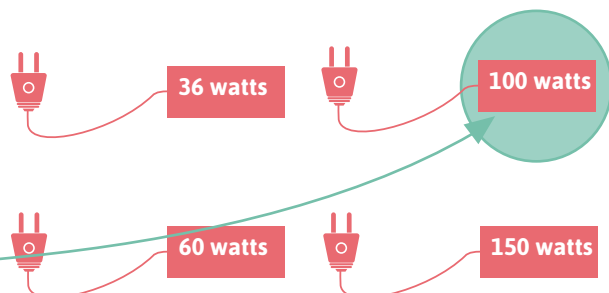
For a project we use three recessed spotlights SL-SPOT06-DU03W with 2.5 watts and a 4m LED strip SL-2M8C11W27-5MA with 11 watts/m

$$3 \times 2,5 \text{ watts} = 7,5 \text{ watts}$$

$$1 \times 400 \text{ cm} \rightarrow 4 \times 11 = 44,0 \text{ watts}$$

$$\text{calculated system power} = 51,5 \text{ watts}$$

$$+20\% \text{ system buffer} = 61,8 \text{ watts}$$



We therefore recommend a 100-watt power supply.

e.g.: SL-NTS24CV100W-CA

RECEIVER:

The SIRO PUSHPOWER Receiver is a device that wirelessly receives signals from the light switch and converts them into control commands for the connected light source. It enables wireless control of the lighting and serves as the „brain“ of the system.

1) Establish connection:

- ▶ Connect the SIRO PUSHPOWER receiver to the sensor output of the power supply.
- ▶ Make sure the connection is secure and tight.

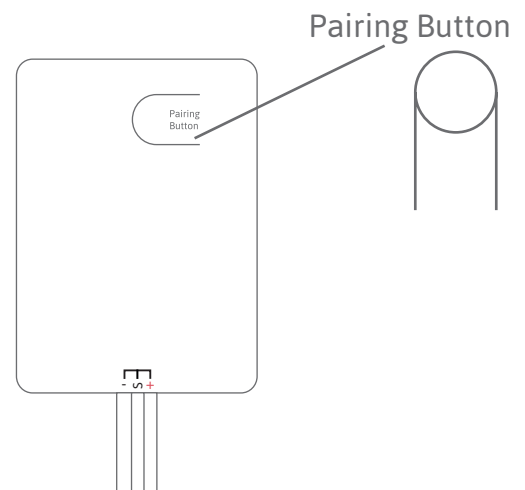
2) Check LED display:

- ▶ After connecting the receiver, check the LED indicator on the receiver.
- ▶ The LED flashes briefly to indicate that the power supply is correct.

2) More connections:

- ▶ If multiple receivers are used, connect them accordingly.

Make sure the power supply is protected from moisture and located in a well-ventilated area.



LIGHT SOURCE:

The light source refers to the lamp or light source you want to control with the SIRO light switch.

This could be, for example, a SIRO LED strip, a SIRO spotlight, or another lamp.

1) Connection of the light source:

- ▶ Connect your light source (e.g. LED strip) to one of the outputs of the power supply.
- ▶ Ensure the connections are secure and properly seated.

2) Check the tightness of the connections:

- ▶ Make sure all cables are firmly plugged into the 6-way distribution box to ensure a stable connection.
- ▶ If necessary, pull on the cables gently to test the strength of the connections.

2) Functional test:

- ▶ Press the SIRO light switch to ensure that the light source responds and functions properly.
- ▶ Make sure the power supply is protected from moisture and located in a well-ventilated area.
- ▶ Note the possibility of the changeover switch function when using multiple switches.