

# Wireless Sensor Decorator Style Rocker Switch [MZ-SW1 / MZ-SW2]



\*PATENT PENDING



Wireless flat pushbutton  
with rocker.



Proudly Made  
In America



Wireless flat pushbutton  
with double rocker.

## Basic Operation

- The MZ-SW1 / MZ-SW2 energy-harvesting Pushbutton generates the power for wireless telegrams itself when the button is pressed, therefore there is no connecting wire and no standby loss.
- Wireless pushbuttons with one rocker can transmit two signals: press rocker up and press rocker down.
- Wireless pushbuttons with double rocker can transmit four evaluable signals: press two rockers up or down.
- Transmission Range: typ. 328 ft (100 m) free field / 32.8 ft (10 m) indoor
- Radio Standard: ZigBee - 2.4GHz / BLE

## Dimensions (approximate)

- Width: 2.5 in.
- Height: 5 in.
- Thickness: 0.625 in.

## Installation

- The mounting base can be screwed onto a flat surface or glued to the wall, on glass or on furniture using the enclosed adhesive tape.

Part Numbers: Single Rocker	MZ-SW1
Part Numbers: Double Rocker	MZ-SW2

## Related Products:



Intelligent Power  
Strip



Intelligent Thermostat



Occupancy/LUX  
Combination Sensor

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## Commissioning

### Part 1

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**Activate commissioning (or linking) mode for a system compatible with the switch.**

If you don't know how to do this, consult the manual for the compatible system or contact the manufacturer for assistance.

### Part 2

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**Put the switch into commissioning mode.**

To enter commissioning mode, start by selecting one button on the switch. (Use the same button for the entire sequence. Pressing any other button will exit the commissioning mode.)

**Next, execute the following long-short-long sequence:**

1. Press and hold the selected button for more than 7 seconds before releasing it
2. Press the selected button quickly (hold for less than 2 seconds)
3. Press and hold the selected button again for more than 7 seconds before releasing it

**The switch has now entered commissioning mode.**

### Part 3

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**Linking the switch to the compatible system.**

A radio signal needs to be sent from the switch to the compatible system on the correct ZigBee channel. The system uses one of sixteen possible channels, automatically set by the system. Using the switch, a signal will be sent on each channel until the channel used by the compatible system is found. Upon entering commissioning mode, the switch sends a signal on the currently selected channel. The signal is sent on the default channel 11, unless the switch had been put on another channel previously. (This allows linking additional devices without changing the currently used radio channel.)

**Here is a chart of the ZigBee channels and the corresponding radio frequencies (in MHz).**

Channel ID	Lower Frequency	Center Frequency	Upper Frequency
11	2404	2405	2406
12	2409	2410	2411
13	2414	2415	2516
14	2419	2420	2421
15	2424	2425	2426
16	2429	2430	2431
17	2434	2435	2436
18	2439	2440	2441
19	2444	2445	2446
20	2449	2450	2451
21	2454	2455	2456
22	2459	2460	2461
23	2464	2465	2466
24	2469	2479	2471
25	2474	2475	2476
26	2479	2480	2481

# Wireless Sensor

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### Commissioning

#### Cycle through the sixteen channels

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To change the switch's channel, short press the selected switch button (less than 7 seconds) once after entering commissioning mode. This will reset the channel used by the switch to channel 11.

*If the switch was already operating on channel 11 (default condition) then the radio channel will remain unchanged. This ensures that the switch will always use channel 11 as the starting point for the channel adjustment.*

Short press the selected button (less than 7 seconds) again to move to the next channel. For each such button press, the switch transmits on the next channel. If channel 26 has been reached then channel 11 will be used next.

When the switch is on the correct channel, the compatible system will provide a link confirmation indication. Consult the instructions for the compatible system for details of the link confirmation indication. There should be a visible or audible exchange indicated on the system, and the switch will be linked to the system.

Exit linking mode on the switch by pressing any other button on the switch.

For problems with the compatible system, please contact the system provider.