Wall Switch

Featuring LoRaWAN®

WS50x





WS50x is a smart LoRaWAN® wall switch for the local and remote control of lights and electrical appliances. It adopts two standard sizes for most of international wall switch types, which can replace the traditional wall switches directly. Compliant with Milesight LoRaWAN® gateway and Milesight IoT Cloud solution, WS50x can be monitored and controlled via webpage or mobile App remotely and triggered by other Milesight sensors.

WS50x can be widely used for indoor applications in homes, offices, hotels, museums, etc.

Features

- Support local or remote control via high reliability relay
- > Collect current, voltage, power, electrical consumption and support overload protection
- Built-in switch indicator, easy to use in dark environment
- ➤ Ultra-wide-distance wireless transmission up to line of sight of 15 km
- > Equipped with NFC for one touch configuration and support card emulation mode
- Function well with standard LoRaWAN® gateways and network servers
- Compliant with Milesight IoT Cloud and Milesight Development Platform
- Support Milesight D2D protocol to enable ultra-low latency control without gateway
- Support multicast feature to control switches in bulk

◆ Specifications

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Electrical			
Circuit Type	3-Wire (Neutral Required)		
Switch Indicator	Ice Blue		
Input Voltage	100~250 VAC, 50~60 Hz		
Maximum Current	Inductive: 5 A per Gang, Total 10 A		
	Resistive: 10 A per Gang, Total 10 A		
Rated Load	Max 1000 W per Gang, Total 0~2000 W		
Terminal	SPST		
Continue (Ontinue)	86 Type: 1-Gang/2-Gang		
Switches (Optional)	120 Type: 1-Gang		
Measurement	Voltage (VAC), Current (mA), Power Factor (%), Active Power (W),		
	Power Consumption (kWh)		
Measurement Accuracy	Typical ±3%, Maximum ±5 % (±1% Customizable)		
Wireless Transmission			
Technology	LoRaWAN [®] , Milesight D2D		
Antenna	Internal Antenna		
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923-1&2&3&4		
Tx Power	16 dBm (868 MHz)/22 dBm (915 MHz)/19 dBm (470 MHz)		
Sensitivity	-137dBm		
Mode	OTAA/ABP Class C		
Software			
Configuration	Mobile App via NFC or Downlink		
Switch Control	Local Press or Remote Control		
	Delay Switch, Switch Lock, Overcurrent Protection, Multicast, Milesight		
Advanced Features	D2D Agent, Milesight D2D Controller		
Physical Characterist	ics		
Ingress Protection	IP20		
Material & Color	Polycarbonate (UL94 V0), White (Customizable)		
Weight	86 Type: 94g (1-Gang), 103g (2-Gang)		
	120 Type: 100.4g		
Dimensions	86 Type: 86 × 86 × 40 mm (3.39 × 3.39 × 1.57 in)		
	120 Type: 118 × 72 × 46.9 mm (4.65 × 2.83 × 1.85 in)		
Operating Temperature	-20°C ~ 60°C (-4°F ~ 140°F)		

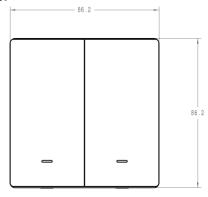
Relative Humidity	0% ~ 95% (non-condensing)	
Installation	Wall Mounting	
Approvals		
Regulatory	CE, FCC	
Environmental	RoHS	

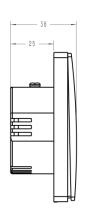
Ordering Information

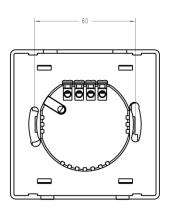
Model	PN	Description
WS501	3W-W12-US	1-Gang, suitable for 118/120 square pattress box
WS501	3W-W11-EU	1-Gang, suitable for 86mm square pattress box
WS502		2-Gang, suitable for 86mm square pattress box

♦ Dimensions

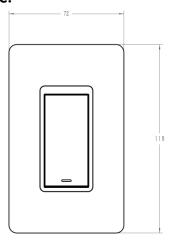
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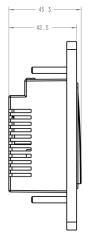


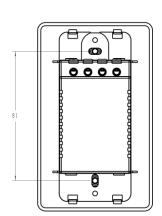




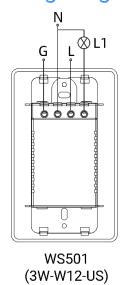
120 Type:

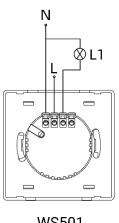






Wiring Diagram





Ν **♦ L1 ♦ L2**

WS501 (3W-W11-EU)

WS502 (3W-W11-EU)









