Smart Light Controller

Featuring LoRaWAN®

WS558



WS558 is a LoRaWAN® Smart Light Controller for monitoring and controlling lights locally or remotely. With 2 circuit types and 8 switches, it fits different rooms without the need of re-wiring,reducing the renovation costs. Compliant with Milesight LoRaWAN® gateway and Milesight IoT Cloud solution, WS558 can be monitored and controlled via webpage or mobile App remotely and triggered by other Milesight sensors. Besides, WS558 supports Milesight D2D communication protocol, which can set up connection quickly and be controlled without gateway.

WS558 can be widely used for wireless control of indoor lights, fans, heaters, machines, etc.

◆ Features

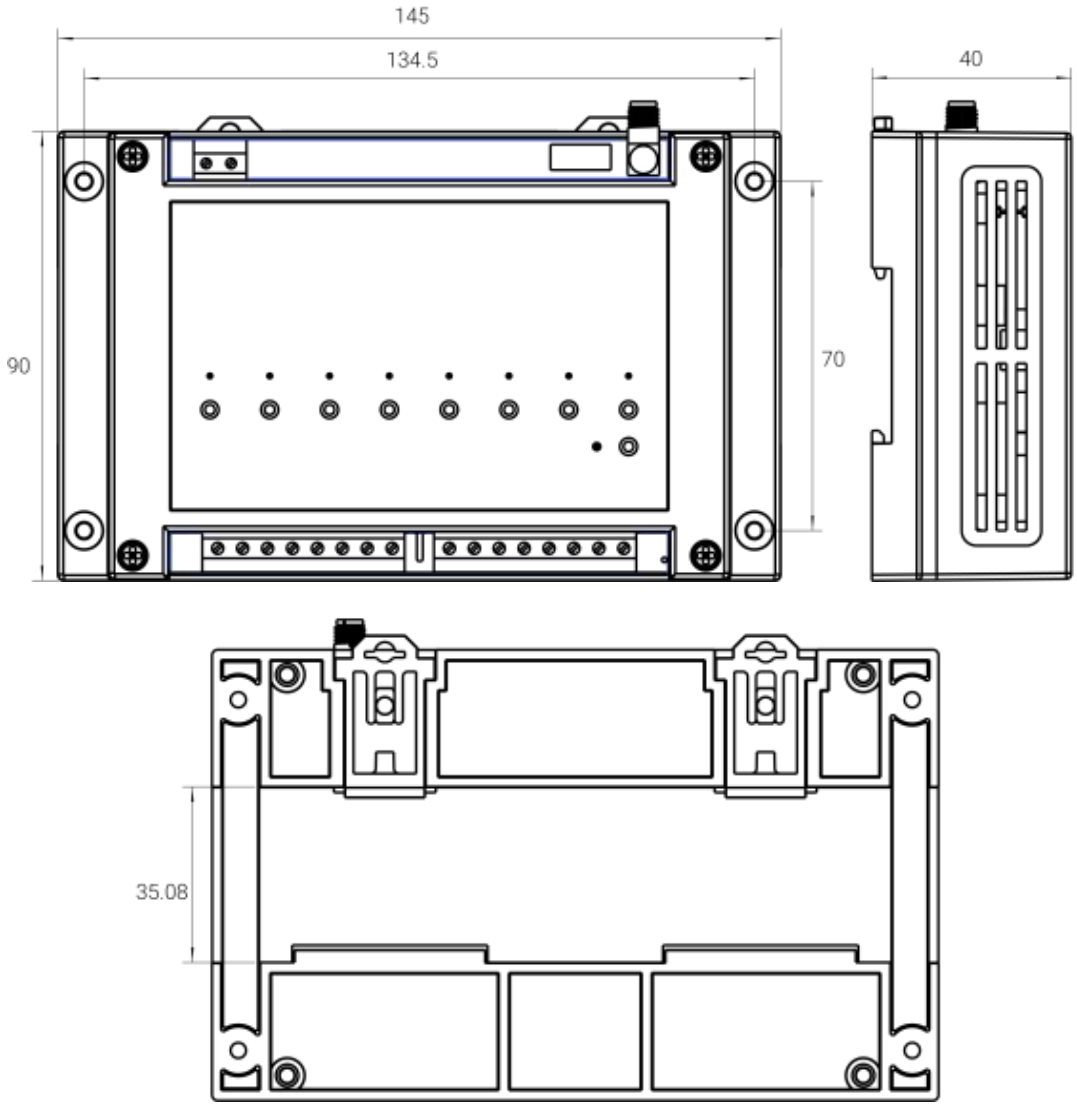
- LN type or switch type optional, capable of controlling up to 8 circuits of lights, adopts different indoor wiring
- Supports local switch button control, able to test the lamp status without networking after the wiring is completed
- Collects data of current, voltage, power, electrical consumption for smart management
- Ultra-wide-distance wireless transmission up to line of sight of 15 km
- Equipped with NFC for one-touch configuration, supports card emulation mode
- Compliant with standard LoRaWAN® gateways and network servers
- Compliant with Milesight IoT Cloud
- Supports Milesight D2D protocol to enable ultra-low latency control without gateway
- Supports multicast for control in bulk

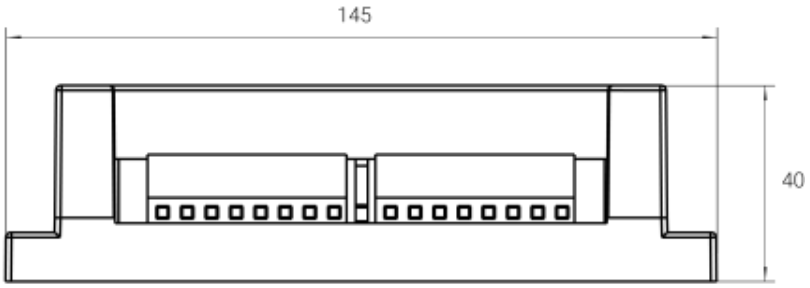
◆ Specifications

Model	WS558-LN	WS558-Switch
Electrical		
Circuit Type	LN Type	Switch Type
Input Voltage	100~240 VAC, 50~60 Hz	
Output	8 Active Outputs	8 Passive Switches
Capacitive & Inductive Load	Maximum 5A per output, total 16A	Maximum 5A per switch
Resistive Load	Maximum 10A per output, total 16A	Maximum 10A per switch
Electrical Measurement	Voltage (VAC), Current (mA), Power Factor (%), Power (W), Power Consumption (kW·h)	-----
Wireless Transmission		
Protocol	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	
Others		
LED	1 × Power Indicator + 8 × Status Indicator	
Button	1 × Reset Button + 8 × Switch Buttons	
USB	1 × Type-C Port for Configuration and Console	
Software		
Configuration	NFC, USB Type-C or Downlink	
Switch Control	Local Press or Remote Control	
Advanced Features	Multicast, Delay Switch, Overcurrent Protection/Alarm, Milesight D2D Agent	
Physical Characteristics		
Color/ Material	Creamy-white, ABS	
Operating Temperature	-20°C to +60°C (-4°F to +140°F)	
Relative Humidity	≤ 95% (Non-condensing)	
Dimensions	145 × 90 × 40 mm (5.7 × 3.54 × 1.57 in)	

Weight	274g	261.3g
Installation	Wall Mounting, DIN Rail Mounting	
Approvals		
Regulatory	CE, FCC	
Environmental	RoHS	

◆ Dimensions (mm)




145
40