

General Description

MOONS' LED wireless public lighting intelligent monitoring System is suitable for all kinds of urban road landscape, parking lots, tunnels, tunnels, such as the application of occasions. System is mainly composed of wireless LED intelligent Control table, single light controller, LED outdoor wireless public lighting intelligent monitoring and control system software.

LED street lamp lighting agreement and some sensors. Each wireless LED intelligent gateway can manage up to 200 wireless node controllers. In order to adapt to road use environment, use tree wireless network topology, it can support up to 20 hops.

LED street lamp lighting protocol is divided into two parts: the central controller to a gateway of the protocol, named LED intelligent lighting control system application layer communication protocol; Agreement between the gateway to node controller, named the LCP - SH agreement. LED street lamp lighting protocol support online upgrade of the firmware. To reduce the difficulty of the breakdown maintenance.

LED intelligent lighting control system application layer communication protocol is fully consider the actual demand for public lighting. LCP - SH protocol is a has nothing to do with the specific physical layer, it can run on the PLC or 2.4 G wireless.

Features

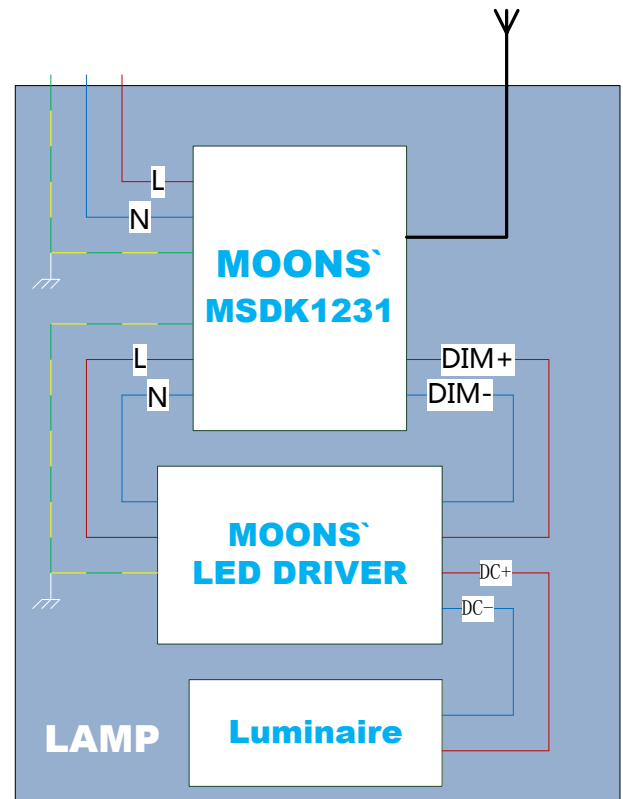
- Designed for be installed outdoor, also can be installed in the lamps and lanterns, lamp post.
- Use 2.4 GHz communicate with Intelligent Gateway, can accept and sends data; 2.4GHZ-IEEE802.15.4 compatible.
- Wireless transmission distance is greater than 500 m (visual range), the communication rate of 250 KBPS.
- Can monitor, control and switch within 480 VA LED drive
- Wide input voltage design, power supply voltage of 100 ~ 277 Vac, 50/60 Hz
- 0 ~ 10 v analog signal level dimmer, 1% per level, the level of 100
- Communication with intelligent Gateway follow the LCP - SH protocol
- Can monitor at the input voltage, current, power, power factor and temperature of lamp
- With overload, light, high temperature alarm function (through data back up machine alarm)
- To statistics, storage, output cumulative power and working time
- Communication Failure protection mechanism, Communication terminal after 10 minutes, will enter into the state of the default lights (factory Settings is 100% brightness)
- Control failure protection mechanism, even if the MCU failure, also can keep the lamp to keep light.



Technical Specifications

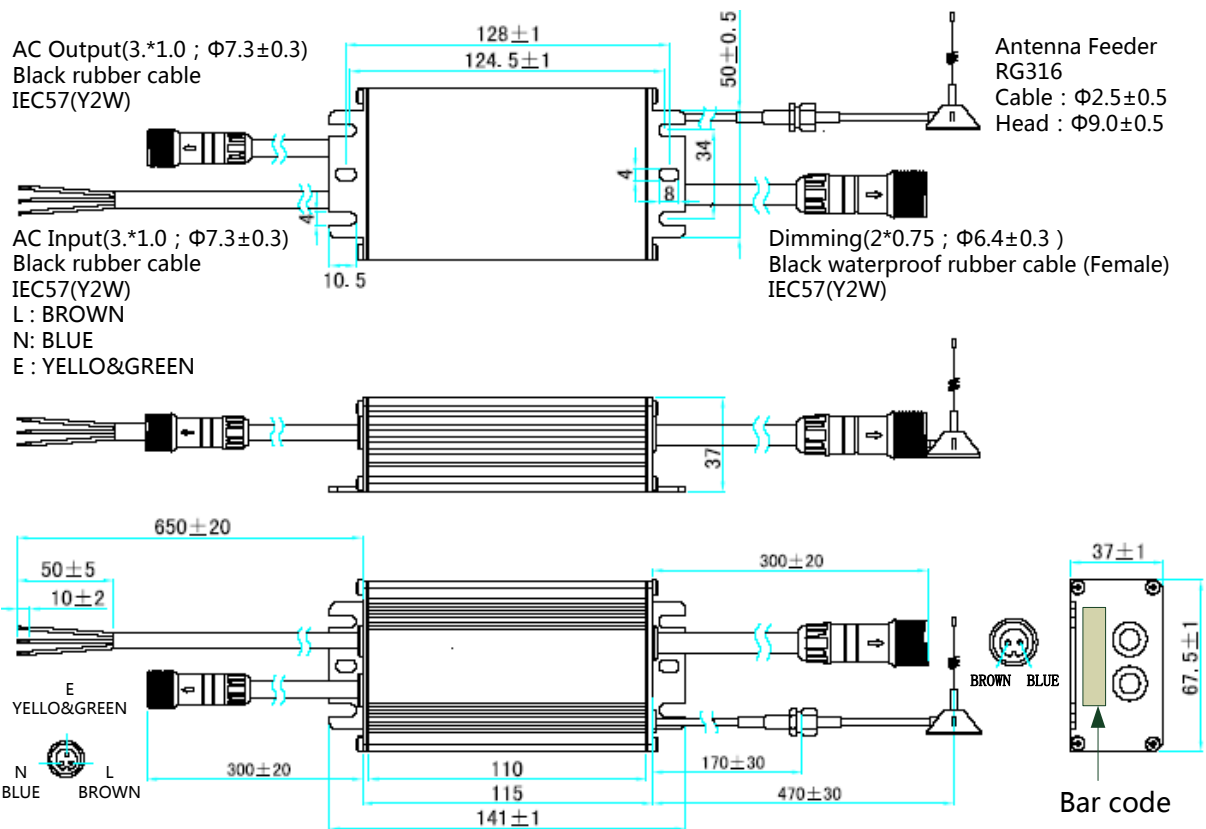
AC Input	Voltage Frequency Current Dissipated Power	100~277VAC 50/60Hz ≤2.05A ≤1.5W
AC Output	Current Power	2A 480VA
RF	Transmit Power Receive sensitivity Transmission rate Frequency range	18dBm -100dBm 250kbps 2400~2485MHz
Dimming	Voltage Current Accuracy	0~10.5VDC 0~10mA -3~+3%
Meter	Voltage Current Accuracy	0~277VAC 0~2.05A -5~+5%
Stability	Operating temp. Enclosure temp. Humidity Pressure Storage temp. Vibration Housing MTBF	-40~70°C ≤80°C 10~90%,no frost 63~108kPa,Alt.≤4000m -40~85°C 10G IP67 ≥30000h @25°C
Others	Data write Dimensions Weight	10 ¹⁴ times 141*67.5*37mm 1.0kg
Safety	Standards Insulation resistance Isolation voltage	IEC61347-2-1 IEC61347-2-11 AC input to others≥100MΩ AC input to DC 3kVac
EMC	Standards	EN61000-4-2 IV; EN61000-4-3 III; EN61000-4-4 IV; EN61000-4-5 IV; EN61000-4-6 III; EN61000-4-8 III; CISPR 11 (2.4~2.5GHz)

Typical Application

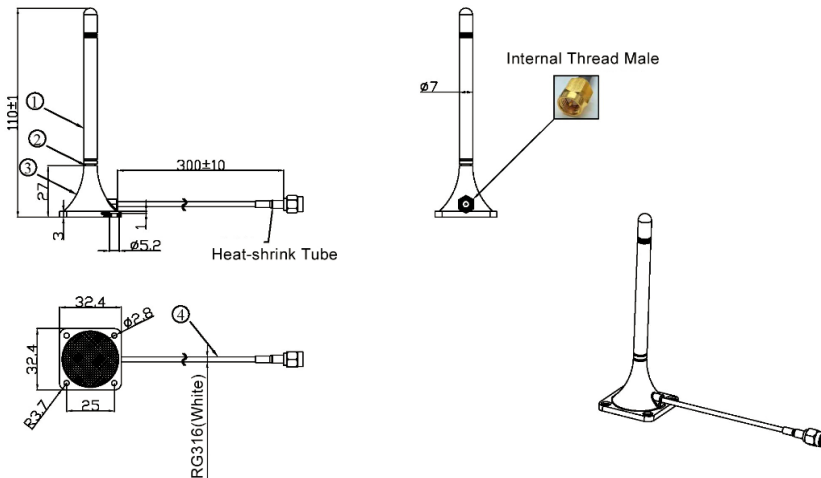


Attention:
Keep the antenna away from metal block.
Keep the Node controller grounding is good.

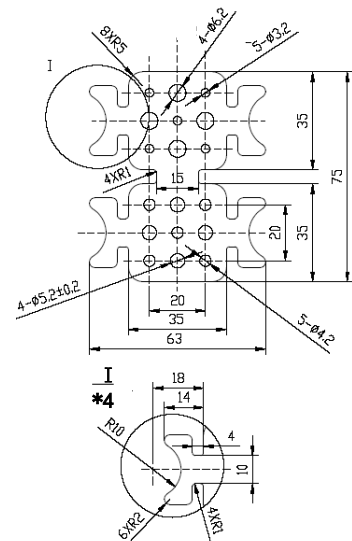
Wireless Node Controller



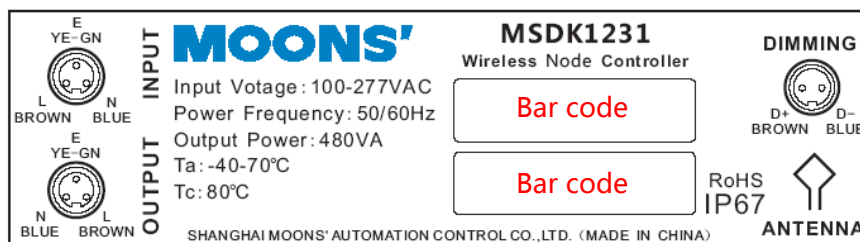
Antenna



Clamp



Label



Attention :
The two bar code on the label for the customer to tear off on the lamp.

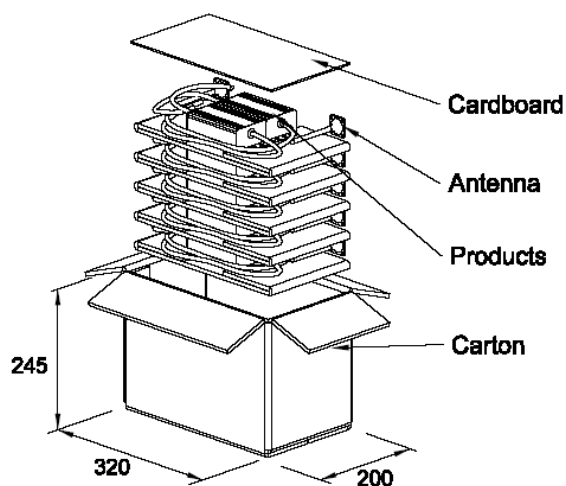
Order Information

MSDK1231 Wireless Node Controller	4696350001576
Antenna (Replaceable)	4741135000008
Clamp (Replaceable)	4219120100131
3M Adhesive tape (Replaceable)	3625101800192
Outdoor Antenna (optional)	4741135000021
Waterproof washer (optional)	3627410000107
AC output cable (optional)	4634140201819
Dimming output cable (optional)	4634140201822

Package List

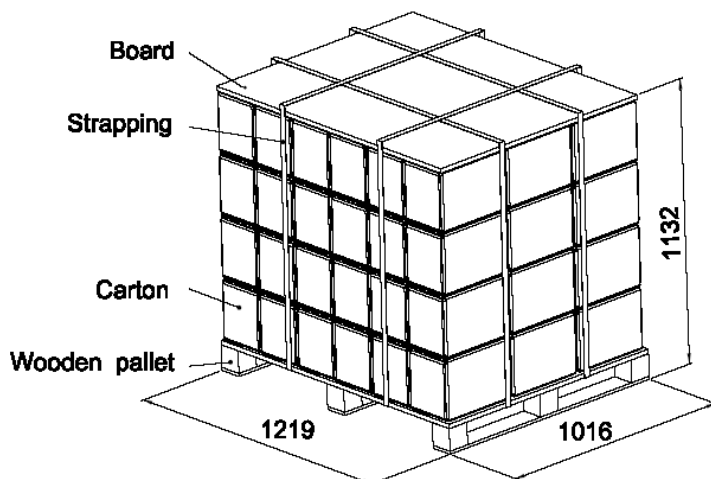
MSDK1231 Wireless Node Controller	*1
Antenna (Replaceable)	*1
Clamp (Replaceable)	*1

Package



1pcs weight: 0.622Kg
10pcs/carton weight: 6.822Kg

Units: mm



72 carton/pallet weight: 532 Kg
720pcs/pallet