

GW-130 Twistlock Dimming Controller Specifications

The GW-130 Twistlock Dimming Controller features a user-friendly smartphone application and wireless Bluetooth Mesh V4.0 for decorative street lighting. The GW-130 features an On/Off switch, automatic connection between the smartphone application and nodes, dimming capabilities from 1-100 by increments of one (1), an evacuation/SOS strobe function, and the ability to automatically reset following a power outage. The core components utilize an enhanced 51 kernal control chip and a one-line Bluetooth Mesh wireless communication module. As a result, the product is powerful, lightweight, reliable, easy to install and maintain, and more cost-effective than most intelligent control systems on the market.

The GW-130 meets the Mesh Protocol of Bluetooth Smart V4.0 communication standards and provides advantages such as flexible networking, strong anti-interference/long-distance communications of up to 200 feet (60 meters), and the ability to support multiple groups of streetlights with a maximum of 200 nodes.

The GW-130 has a built-in light control circuit to automatically detect light intensity in the external environment and turn the streetlight on or off accordingly. The GW-130 has a **10 year warranty - one to one replacement.**



FEATURES

- Remote Switch, dimming luminaire (dimming 1-100 by one (1) increments)
- Single-luminaire or networking operation
- 85-305VAC voltage range
- IP65 ingress protection
- Evacuation/SOS strobe function
- Automatic reset following a power outage

GW-130 SPECIFICATIONS

(CONT.)

APPLICATIONS

- LED luminaires that require dimming-dusk-to-dawn control (parks, parking lots, garages, villages/towns/small cities and college campuses).

CERTIFICATIONS (ALL PENDING)

- Meets UL773
- ROHS compliant
- Manufactured in an ISO Certified Facility

OPERATING CHARACTERISTICS

- Load Rating: 1800 VA driver
- Up to 120-amp inrush
- On/Off Ratio: 2-5 second time delay
- Switch: >10,000 On/Off operations at rated load

ADDITIONAL FEATURES

ENHANCED LIGHT SENSING

The silicon light sensor is designed to sense sunlight while being "blind" to light emitted from LEDs. This reduces LED sensitivity and significantly decreases false turn-off in high ambient light situations.

SURGE PROTECTION

Employing one MOV provides surge protection for the control and protects the solid-state driver from differential mode transients.

DESIGN LIFE ENHANCEMENTS

The GW-130 is rated for 90,000 hours. The printed circuit board is fiberglass/epoxy FR4 for superior strength and moisture resistance and is conformal coated to reduce water absorption. The unit provides IP65 ingress protection.

GW-130 SPECIFICATIONS

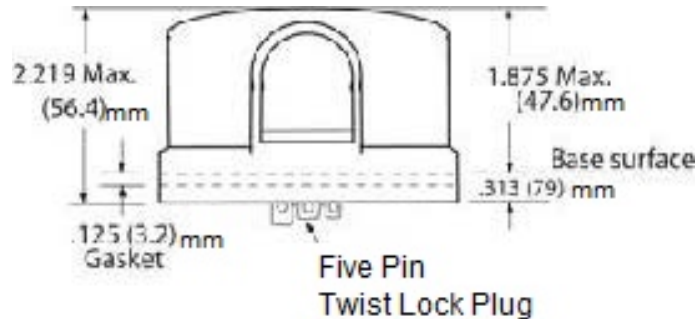
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TECHNICAL INFORMATION

| | | |
|---|---------------------------|--|
| Input | Voltage range | 85-305VAC |
| | Working frequency | 47-63Hz |
| | Current range | 0-5A |
| | Standby power consumption | ≤1W |
| Dimming output | PWM | 10V/1kHz (optional) |
| | 0-10V | 0-10V (standard) |
| Communication | Communication mode | Bluetooth4.0 |
| | Working frequency | 2.4GHzISMband |
| | Transmitting power | +7dBm (typical value) |
| | Receive sensitivity | -92dBm (typical value) |
| | Transmission distance | Up to 60m (distance between single-points) |
| Antenna parameters | Working frequency | 2.4GHz |
| | Standing wave ratio | ≤1.5 |
| | Antenna gain | 2.5DBi |
| | Input impedance | 50 Ohm |
| | Interface type | SMA interface |
| | Antenna type | Glue stick antenna |
| | Interface type | SMA interface |
| Working environment | Operating temperature | -40~+80°C |
| | Ambient humidity | 20-90%RH (no condensation) |
| | Storage environment | 40 ~+85°C, 10 ~90%RH |
| Safety regulation/electromagnetic compatibility (PENDING APPROVAL) | Safety regulation clauses | UL8750, EN61347-1, CLASS2, UL60950-1 |
| | Isolation voltage | AC to dimming end, 3.75KVAC |
| | Isolation resistance | AC to dimming end>50MΩAt500VDC |
| | Electrostatic discharge | IEC/EN61000-4-2Contact±4kV/Air±8kV |
| | Eurst of pulses | IEC/EN61000-4-4±4kV |
| | Lightning and Surging | IEC/EN61000-4-5L to L-line (4kV) |
| Other | Ingress Protection | IP65 |

GW-130 SPECIFICATIONS (CONT.)

DIMENSIONS



WARRANTY

10 year warranty - All photocontrols are marked with the date of manufacture. This product is warranted to operate within its original specifications and shall be free of electrical or mechanical defects. Manufacturer's warranty shall be limited to providing a replacement control of same type and shall not cover costs of removal, replacement or loss of service nor any consequential damages. This warranty is in lieu of and excludes all other warranties either expressed or implied. Full warranty statement is available by consulting factory.

DISCLAIMER

UL certification and patents are pending