10W Chemical Resistant LED Light
C1D2 / C1D2 - Corrosion Resistant - Motion Sensor
Instruction Manual

Do not attempt installation until you are familiar with all warnings, precautions, and procedures outlined within this instruction sheet.

WARNING:

READ CAREFULLY BEFORE INSTALLING FIXTURE. RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE. CRITICAL SAFETY INSTRUCTIONS:

- INSTALLATION SHOULD ONLY BE CONDUCTED BY A QUALIFIED ELECTRICIAN IN ACCORDANCE WITH NEC AND ANY RELEVANT LOCAL BUILDING CODES.
- ENSURE THAT POWER SUPPLY VOLTAGE DOES NOT EXCEED MAXIMUM VOLTAGE RATING OF LIGHT.
- TO PREVENT RISK OF ELECTRICAL SHOCK DEACTIVATE/DISCONNECT POWER SUPPLY BEFORE INSTALLING OR RELAMPING FIXTURE.
- TO REDUCE RISK OF FIRE OR EXPLOSION, DO NOT INSTALL WHERE MARKED OPERATING TEMPERATURE EXCEEDS THE IGNITION TEMPERATURE OF THE HAZARDOUS ATMOSPHERES.
- THIS FIXTURE SHOULD BE INSTALLED BY QUALIFIED TECHNICIANS IN STRICT ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ANY LOCAL REQUIREMENTS.
- BEFORE OPENING, ELECTRICAL POWER TO THE LUMINAIRE MUST BE TURNED OFF. KEEP TIGHTLY CLOSED WHEN IN OPERATION.
- ALL THREADED CONNECTIONS MUST ENGAGE FIVE FULL THREADS.

INSTALLATION

This LED light is supplied from factory with the predefined voltage, mount, and lamp color selected per model.

- Before installation or service of this fixture, ***TURN OFF ELECTRICITY***.
- Wiring needs to comply with National and Local Electric Codes.



1. Find a suitable location for mounting the fixture.
2. Mount using the two mounting ears on each the wall box and motion sensor enclosure.
3. Remove the front enclosure cover by loosening the set screw and rotating counter-clockwise.
4. Attach conduit as required, and pull field wiring into enclosure. Connect wires to fixture following wire diagram. To ensure water-tightness, lubricate conduit plugs with lubricant.
5. Dip switches on the motion sensor offer several adjustments and functionality. See chart below for a description of each parameter.
6. Once set, replace motion sensor and wiring into enclosure box.
7. Replace cover, and rotate clockwise to tighten.
8. Tighten set screw.
9. Ensure a light bulb is installed and globe and guard are secure.
10. Energize fixture and test for proper function.



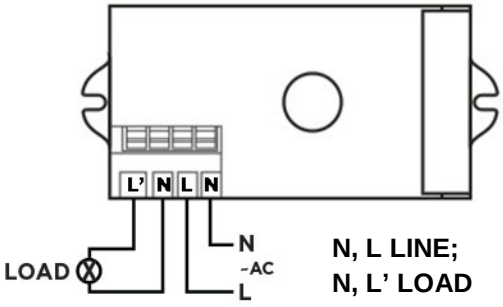
This unit is designed to operate on 120V, 220V-240V AC, or 12V or 24V DC electrical circuits depending on model. AC and DC voltage is not interchangeable and product nameplate must always be consulted prior to energizing fixture. This motion sensor is suitable for use in environments where combustible dusts and particulates may be present.

Motion sensor operates like a standard on/off light switch. The circuit is normally open when no motion is present. Once motion is detected, the internal switch changes to a closed circuit, allowing voltage to pass through the sensor and power the device(s) at the other end.

The sensor is an active motion detector; it emits high-frequency electro-magnetic waves (5.8GHz) and receives their echo. The sensor detects the change in echo from even the slightest movement in its detection zone. A microprocessor then triggers the “switch light ON” command. Detection is possible through doors, panes of glass or thin walls.

IMPORTANT: persons or objects moving towards the sensor are detected best.

NOTE: The high frequency of the output of this sensor is <10Mw – that is just one 100th of the transmission power of a mobile phone or the output of a microwave oven.



Dip Switch Settings

ON		1	2	
	I	ON	ON	100%
	II	—	ON	75%
	III	ON	—	50%
	IV	—	—	25%

Detection Area

Detection area can be reduced by selecting the combination on the DIP switches to fit precisely each application.

ON		3	4	5	
	I	ON	ON	ON	5s
	II	—	ON	ON	30s
	III	ON	—	ON	90s
	IV	—	—	ON	3min
	V	ON	ON	—	20min
	VI	—	—	—	30min

Hold Time

Refers to the time period the lamp remains illuminated after no motion is detected.

ON		6	7	8	
	I	ON	ON	ON	5lux
	II	—	ON	ON	15lux
	III	ON	—	ON	30lux
	IV	—	—	ON	50lux
	V	ON	ON	—	100lux
	VI	—	—	—	Disable

Daylight Sensor

The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness threshold. When set to Disable mode, the daylight sensor will switch on the lamp when motion is detected regardless of ambient light level. 30lux, 50lux, 100lux,: twilight operation, 5lux, 15lux: darkness operation only.

ON		9	
	I	ON	Disable
	II	—	Sensor

Mode

When set to Disable, the microwave sensor function is inactive, lights turns on or off by switch. When set to Sensor, the microwave sensor function is active.

LAMP REPLACEMENT

1. Disconnect power to fixture. Do not open within an active hazardous area.
2. Remove guard and globe from light fixture.
3. Remove old bulb by twisting counter-clockwise.
4. Install new bulb and twist clockwise to tighten. (Use equivalent lamp. Do not exceed rated wattage.)
5. Replace globe and guard.

THESE INSTRUCTIONS MAY NOT COVER ALL DETAILS OR VARIATIONS OF THIS PRODUCT FOR YOUR EQUIPMENT OR INSTALLATION REQUIREMENTS. SHOULD FURTHER INFORMATION NOT COVERED BY THESE INSTRUCTIONS BE REQUIRED, PLEASE CONTACT LARSON ELECTRONICS BY EMAIL AT SALES@LARSONELECTRONICS.COM OR BY PHONE AT 1-800-369-6671 FOR FURTHER ASSISTANCE.

PLEASE VISIT LARSONELECTRONICS.COM FOR **WARRANTY** AND **RETURN** INFORMATION.