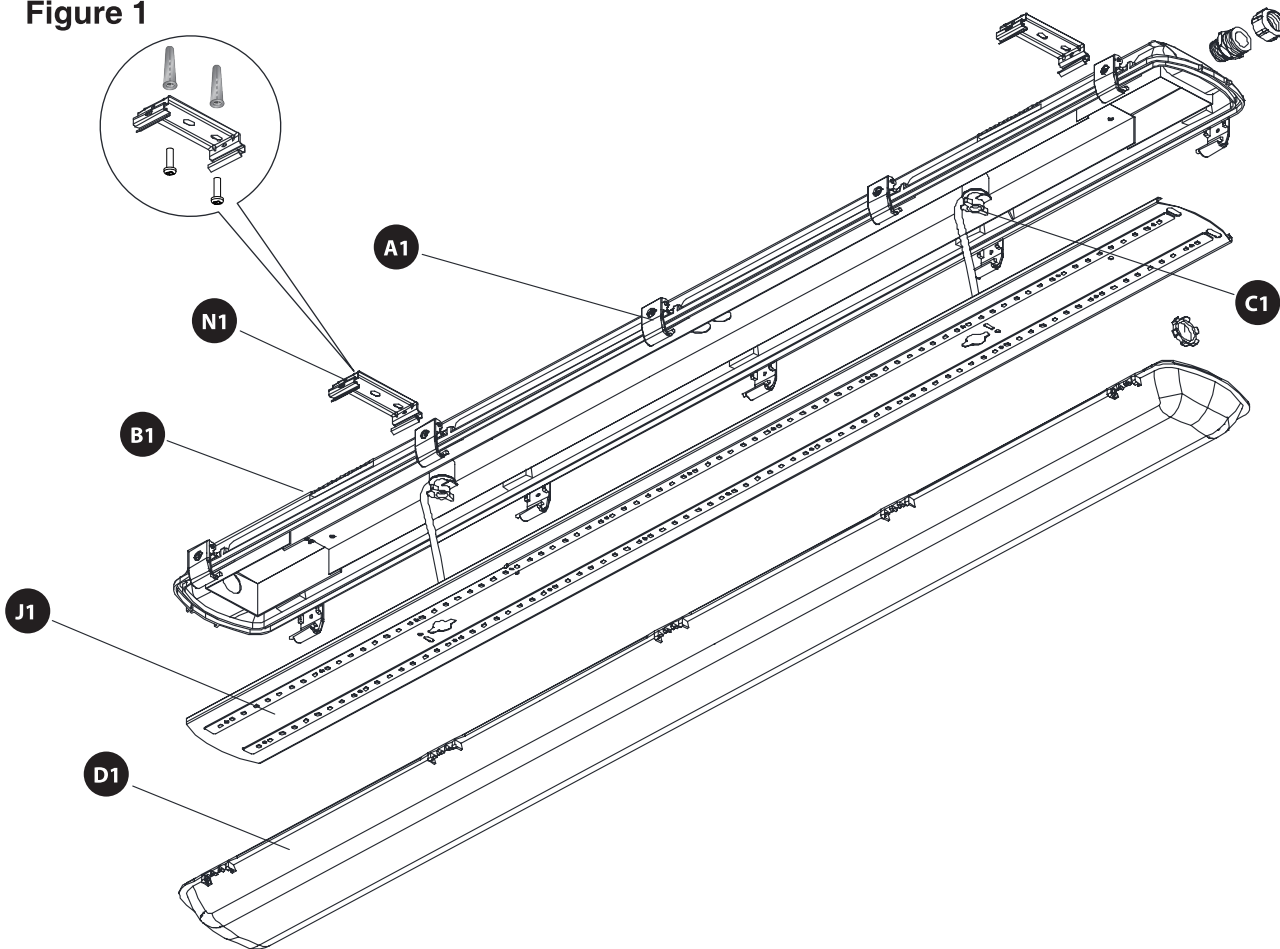
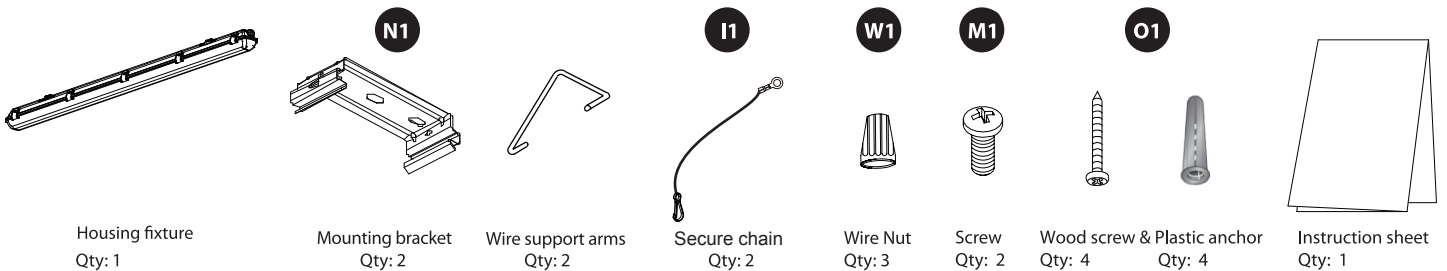


Figure 1



Packaging contents



**Caution: this product must be installed by a person familiar with the construction and operation of the product and the hazards involved, in accordance with the applicable installation code.**

Table 1: Rating

| Luminaire model No. | Rating   |
|---------------------|--|
| 4117WH-35           | 120V, 60Hz, 0.31A, 41W or 277V, 60Hz, 0.16A, 41W |
| 4117WH-50           | 120V, 60Hz, 0.46A, 54W or 277V, 60Hz, 0.21A, 56W |
| 4117WH-70           | 120V, 60Hz, 0.62A, 73W or 277V, 60Hz, 0.28A, 75W |

Table 2: Construction and Working Location

| Luminaire model No. | MOS provided (Y/N) | EMBB provided (Y/N) | Working Location |
|---------------------|--------------------|---------------------|------------------|
| 4117WH-35           | N                  | N                   | Wet              |
|                     | Y                  | N                   | Wet              |
|                     | N                  | Y                   | Damp             |
|                     | Y                  | Y                   | Damp             |
| 4117WH-50           | N                  | N                   | Wet              |
|                     | Y                  | N                   | Wet              |
|                     | N                  | Y                   | Damp             |
|                     | Y                  | Y                   | Damp             |
| 4117WH-70           | N                  | N                   | Wet              |
|                     | Y                  | N                   | Wet              |
|                     | N                  | Y                   | Damp             |
|                     | Y                  | Y                   | Damp             |

Note: "MOS" denotes microwave motion sensor; "EMBB" denotes emergency battery backup.

## PREPARATION

1. Unlatch screws, Diffuser (D1) and open. Note: two latches (A1) on one side remain captive to Diffuser.

### Semi-Flush Installation

Follow steps 2 & 3.

If mounting to a metal surface- additional hardware will need to be purchased.

2. Mark location for mounting holes. Mounting brackets (N1) can be installed 33-1/4"- 37-5/8" apart on mounting surface (center of bracket to center of bracket). For each bracket, drill holes and insert the mounting anchor. **See Fig. 1.**
3. Lift fixture housing (B1) to mounting brackets (N1) and snap in place. **See Fig. 2.** Confirm fixture is securely mounted.

### Suspended Installation

4. Mark location for two mounting holes on mounting surface and secure chain to mounting surface.
5. Install wire support arms to mounting brackets (N1) by snapping into oval slots. **See Fig. 2**
6. Snap mounting bracket (N1) onto back of fixture housing (B1). **See Fig. 2**

## WIRING AND FIXTURE OPERATION

**CAUTION: Connect fixture to supply wires rated for at least 90°C (194°F).**

7. Feed incoming power cord through conduit into fixture.
8. Make wire connections by connecting bare copper or green supply wire to both green fixture wires with "pock home" connector. Connect black supply wire to black fixture wire and white supply wire to white fixture wire with "pock home" connectors on the ends. **See Fig 3**

Fixture can be connected to adjacent units

If requires connecting to adjacent units, the knockout must be removed, and one end of three certified 18 AWG wires shall be parallel connected with the first luminaire (the white is for Neutral; the black is for Live; the green is for bonding), and the other end of the wires connected with adjacent luminaire's input leads. One certified waterproof fixture conduit is used to connect two adjacent units. **See Fig 4**

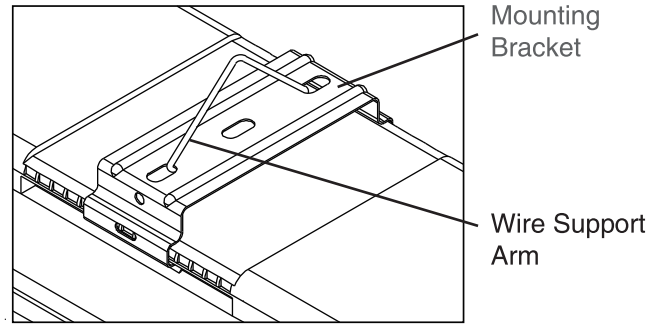
9. Bundle wires together and position inside wire way.
10. Position wireway cover (J1) onto fixture opening making sure wires are not pinched between housing and cover. Rotate latches (C1) to secure to housing.
11. To install Diffuser (D1)- Place Diffuser edge onto gasket area on the perimeter of housing, secure with six screws.
12. Installation is complete. Turn on electricity at fuse or circuit breaker box.

## WIRING DIAGRAM

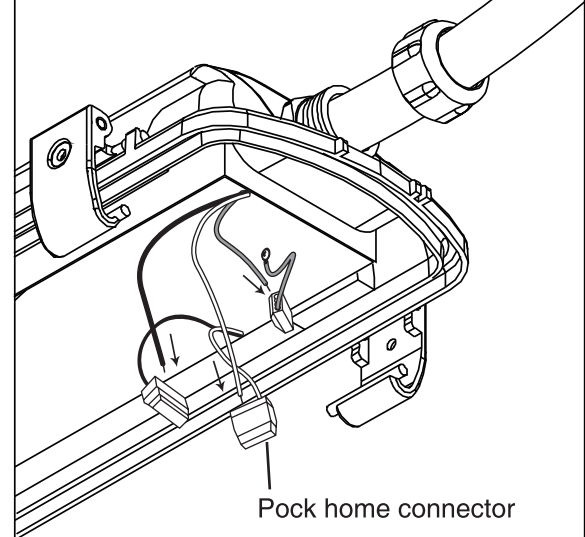
Note: There are 4 types for the WIRING DIAGRAM.

- Option 1. There is MOS, no EMBB. See WIRING DIAGRAM A  
 Option 2. There is EMBB, no MOS. See WIRING DIAGRAM B  
 Option 3. There are MOS and EMBB. See WIRING DIAGRAM C  
 Option 4. There is no MOS and no EMBB. See WIRING DIAGRAM D

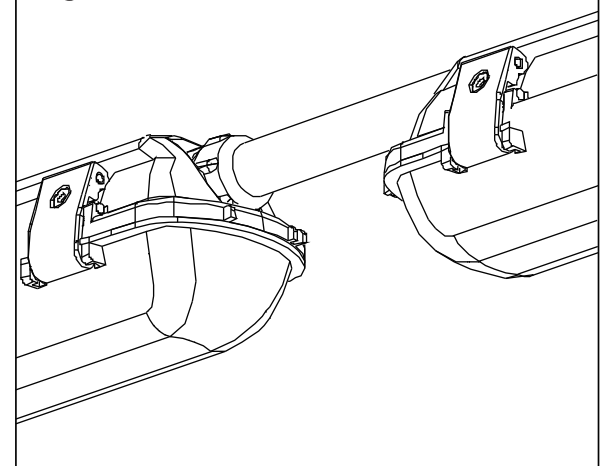
**Figure 2**



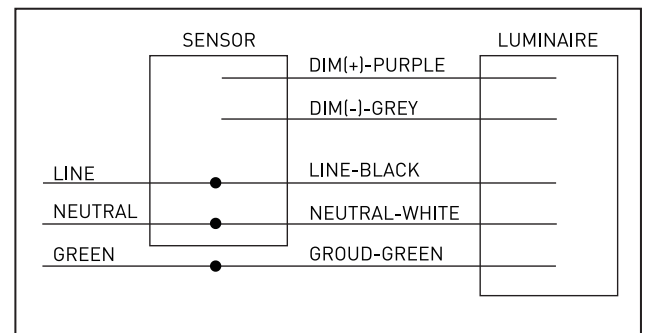
**Figure 3**



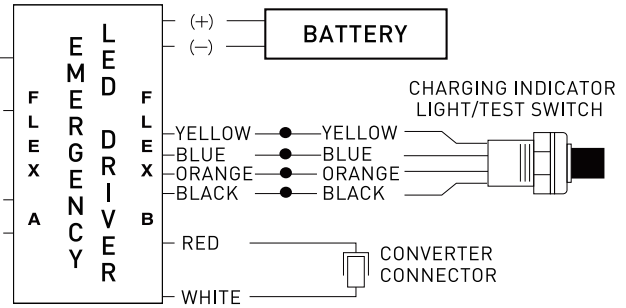
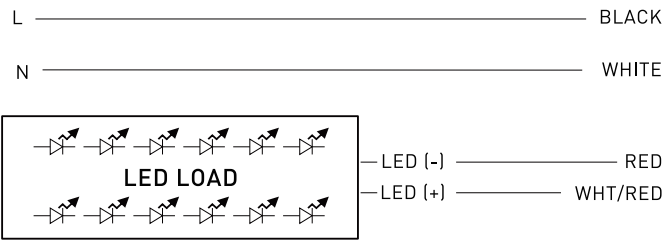
**Figure 4**



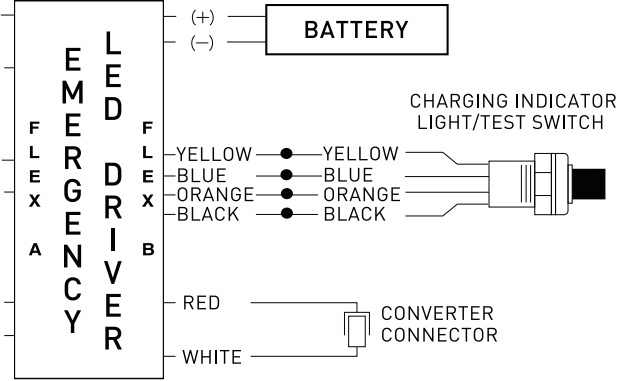
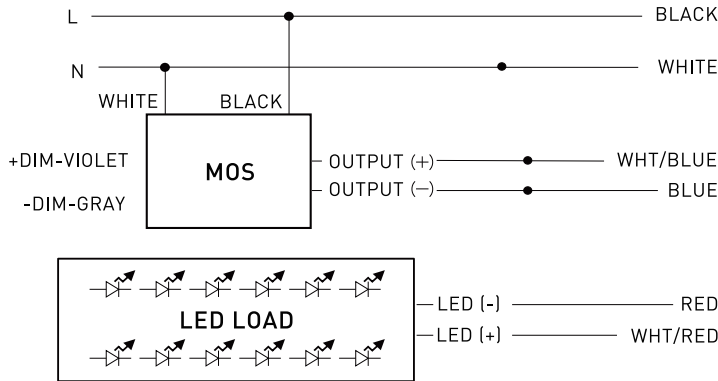
**WIRING DIAGRAM A**



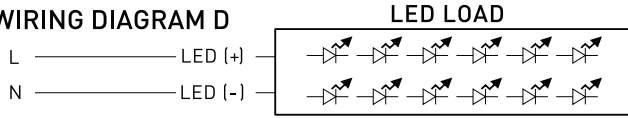
### WIRING DIAGRAM B



### WIRING DIAGRAM C

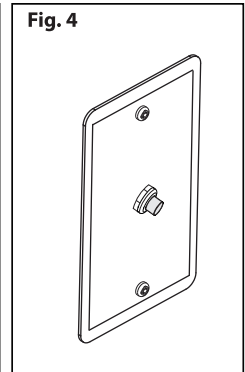
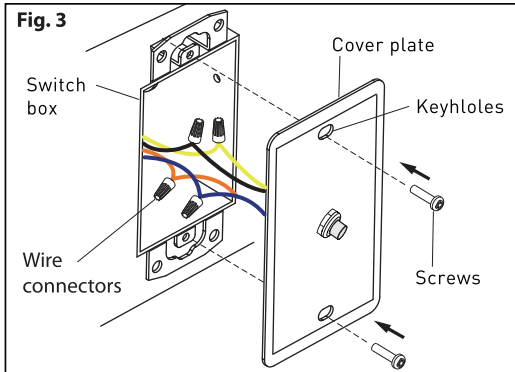
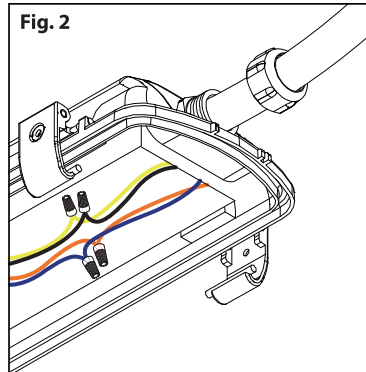
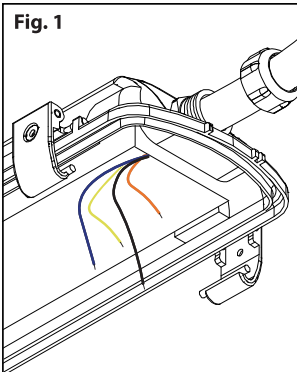
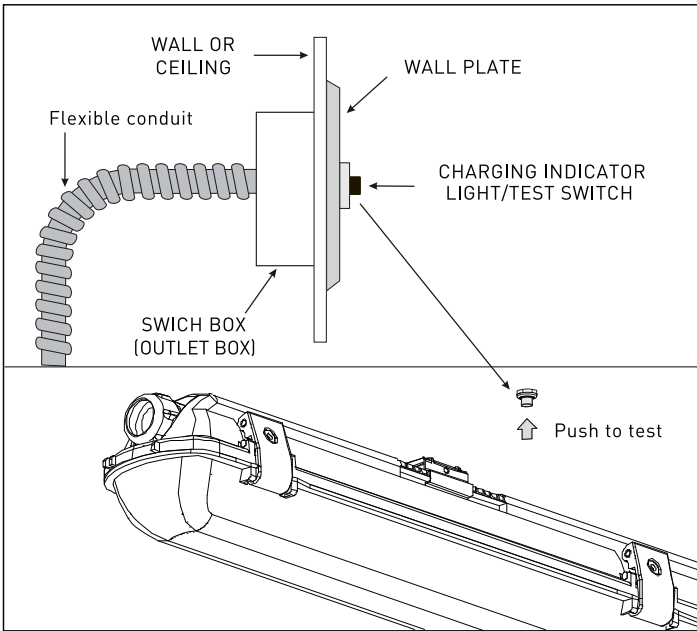


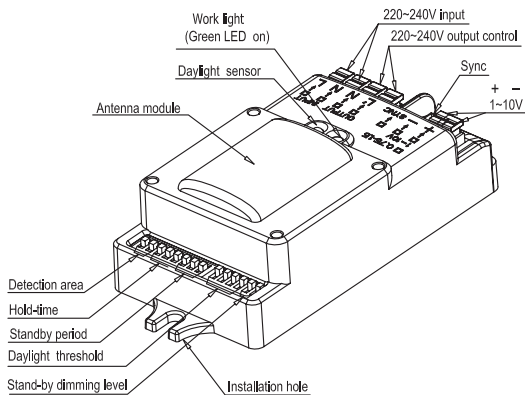
### WIRING DIAGRAM D



### Test Switch Installation

1. Open the diffuser of luminaire carefully, and then remove the wireway cover (J1).
2. At emergency LED driver output side, there are four wires are intended to connect to test switch (color: Yellow, Blue, Orange and Black). Remove the conduit knockout at the emergency LED driver output side, install the conduit to the conduit knockout with certified conduit fitting. (Fig. 1)
3. Make sure there are four wires in conduit, connect the wires of conduit and LED driver testing switch wires with certified wire connector, mark the electrical connection with testing switch wire color, such as: Yellow to conduit wire #1, Blue to conduit wire #2, Orange to conduit wire #3, Black to conduit wire #4. (Fig. 2)
4. Install the wireway cover (J1) to luminaire and then close the diffuser.
5. Find the other side of the conduit, it shall be an outlet box mounted on wall or ceiling. And make sure the cover plate of testing switch are matching with the outlet.
6. Connect the wires with certified connector in outlet box in accordance with the colors of testing switch correctly. such as: conduit wire #1 to Yellow, conduit wire #2 to Blue, conduit wire #3 to Orange, conduit wire #4 to Black. (Fig. 3)
7. Secure the cover plate of testing switch to the outlet box with two screws. (Fig. 3)
8. If wired correctly, the 4W-ITS indicator light should be ON when AC power is supplied to the fixture, indicating that the emergency inverter battery is charging. After installing, mark with the "PUSH TO TEST" and "CHARGING INDICATOR LIGHT" labels.





## Microwave Motion Sensor

|                        |   |
|------------------------|---|
| Operating voltage      | 120~277Vac, 50Hz/60Hz                                     |
| Rated capacitive load  | 120V@400W;220-240@800W;277V@1000W                         |
| HF system              | 5.8Ghz±75MHz, ISM wave band                               |
| Transmitting power     | <0.5mW  |
| Power consumption      | ≤0.5W(standby), <1W(operation)                            |
| Detection zone         | Max.(D x H): 16m x 15m                                    |
| Detection sensitivity  | 10% / 50% / 75% / 100%                                    |
| Hold time              | 5s / 30s / 90s / 3min / 20min / +co                       |
| Daylight sensor        | 2lux/5lux/10lux/25lux/50lux/100lux / Disable              |
| Stand-by period        | 0s / 5s / 5min / 10min / 30min / 1h / +Disable            |
| Stand-by dimming level | 10% / 20% / 30% / 50%                                     |
| Mounting height        | 15m Max.  |
| Motion detection       | 0.5~3m/s  |
| Detection angle        | 150°C (wall installation)<br>360°C (ceiling installation) |
| Operating temperature  | -35°C~70°C  |
| IP rating              | IP20  |

By selecting the combination on the DIP switches, sensor data can be precisely set for each specific application.

|      |     |    |    |      |
|------|-----|----|----|------|
| ON ↑ |     | 1  | 2  |      |
|      | I   | ON | ON | 100% |
|      | II  | ON | -  | 75%  |
|      | III | -  | ON | 50%  |
|      | IV  | -  | -  | 10%  |

### 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   | -   | -  | -  | +∞ |       |

### Hold time

Refers to the time period the lamp remains at 100% illumination after no motion detected.

|      |     |    |    |     |
|------|-----|----|----|-----|
| ON ↑ |     | 5  | 6  |     |
|      | I   | ON | ON | 50% |
|      | II  | -  | ON | 30% |
|      | III | ON | -  | 20% |
|      | IV  | -  | -  | 10% |

### Stand-by dimming level

The low light level you would like to have after the hold time in the long absence of people.

|      |     |    |    |    |         |        |
|------|-----|----|----|----|---------|--------|
| ON ↑ |     | 1  | 2  | 3  | 4       |        |
|      | I   | -  | -  | ON | ON      | 2Lux   |
|      | II  | -  | -  | -  | ON      | 5Lux   |
|      | III | -  | ON | ON | -       | 10Lux  |
|      | IV  | -  | -  | ON | -       | 25Lux  |
|      | V   | -  | ON | -  | -       | 50Lux  |
|      | VI  | ON | -  | -  | -       | 100Lux |
| VII  | -   | -  | -  | -  | 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. 50lux, 30lux: twilight operation, 10lux, 5lux: darkness operation only. Note that daylight sensor is active only when lamp totally switches off.

|      |     |    |    |         |       |
|------|-----|----|----|---------|-------|
| ON ↑ |     | 6  | 7  | 8       |       |
|      | I   | ON | ON | ON      | 0S    |
|      | II  | -  | ON | ON      | 5S    |
|      | III | ON | -  | ON      | 5min  |
|      | IV  | -  | -  | ON      | 10min |
|      | V   | ON | ON | -       | 30min |
|      | VI  | -  | ON | -       | 1h    |
| VII  | -   | -  | -  | Disable |       |

### Stand-by period

Refers to the time period the lamp remains at a low light level before it completely switches off in the long absence of people. When set to "+∞" mode, the low light is maintained until motion is detected.

## WIRING DIAGRAM

