| ECO. NO. | REV | MARK | DETAILS     | DESIGN | DATE       |
|----------|-----|------|-------------|--------|------------|
|          | 1   |      | 首次发行        | 陈卿青    | 2021-08-18 |
|          | 2   |      | 修改开孔尺寸 更新内容 | 易晓庆    | 2021-12-06 |
|          | 3   |      | 更新内容        | 易晓庆    | 2021-12-22 |
|          | 4   |      | 更新内容        | 蔡树棠    | 2024-12-05 |
|          |     |      |             |        |            |

Notes:

- Material: 80g printing paper, white.size 297\*210MM.
  Printing: Black
  Pack and tie a label with part number 0-ML00-3141-01-1.

| $\bigoplus$  |           | A     | l     | 青嵘<br>A&R | 科技 <b>(</b> 深<br>Technol | 圳 <b>)</b> 有限公<br>ogies LT | 公司<br>D. |            |
|--|-----------|-------|-------|-----------|--------------------------|----------------------------|----------|------------|
| DIMENSION TOLERANCES UNLESS<br>OTHERWISE SPECIFIED | CLIENT    |       |       | PAR       | T NAME                   | Enç                        | glish ma | anual      |
| >0.0AND≤10 ±0.05mm<br>>10AND≤50 ±0.10mm            | MODEL NO. | OCP-2 | 828   | PA        | rt no.                   | 0-MI                       | _00-314  | 41-01-1    |
| >50AND <b>≤100 ±</b> 0.15mm                        | MATERIAL  |       | REV   | 4         | DESIGN                   | 蔡树棠                        | DATE     | 2024-12-05 |
| >100AND≤150 ±0.200mm<br>>150 ±0.250mm              | SIZE      | A4    | SCALE |           | CHECK                    |                            | DATE     |            |
| Angular ±0.25°                                     | SHEET     |       | UNIT  | mm        | APPROVAL                 |                            | DATE     |            |

# **OCP-2828** Operation and Specification

# SUREN

**OCP-2828** is a Patented HDIR occupancy motion sensor with Suren's proprietary multi-segment lens array. Mounted at a height of 2.4m.

OCP-2828 can be flush mounted, un-obstructive

Appearance. One or up to eight sensors can be connected with Suren's power packs PS-112/PS-124 to control a wide range of load types, include lighting and HVAC devices.

#### Parameter Setting:

Set the Lux level, DIM and delay-off time by Lux, DIM and delay-off time  $\ensuremath{\mathsf{TRIM}}$  POT.

The sensor becomes operational 10 seconds after power up.

LED Indicator:

LED stays on for 10 seconds upon power up.

LED flash once when motion is detected by infrared sensor.

# Wiring Diagram:

# OCP-2828 Wiring (With LED driver)

#### OCP-2828 Wiring (With PS-112/PS-124 Power pack)



## Specification:

| Power Supply:          | 12-24VDC                            |
|------------------------|-------------------------------------|
| Output:                | CTL: H/L Supply voltage/ 0 VDC      |
|                        | Dimming:0-10VDC                     |
|                        | Solid State Relay: N.O., 60V, 100mA |
| Operating Current:     | <20mA                               |
| Operating Temperature: | -10°to 50°C                         |
| Mount Height:          | 2.4m                                |
| Lens:                  | Fresnel Lens                        |
| Housing Material:      | High-Impact ABS                     |
| Dimension:             | 80 mm Diameter X 42 mm Height       |
|                        |                                     |



### Mounting instruction:

The marking ' (G)' on the front cover shows the direction of longer side of the detection pattern as per the top view diagram below, please make sure the sensor is aligned properly to achieve optimum coverage.



# **Detection Area:**



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Part No:0-ML00-3141-01-1 Rev. 4 www.surensystems.com

#### Sensor Installation:

Use a 64mm circular hole saw to drill a hole at desired location.



#### Wire labelling



Red: 12~24VDC, Input Black: GND Purple: Dimming+, Output Blue: Relay A Gray: CTL, Output White: Relay B

#### Connection as wiring diagram.



Press the retaining springs together, then push the springs and the sensor base through the hole until the sensor rim is seated against the panel.



#### Installation the lens shield

Insert the screwdriver into the notch of the lens cover to open the lens cover and remove the lens.

Place the lens shield into the slot, and put the lens into the slot, then close the lens cover.



#### Usage of lens shield

Lens mask can be used to block off areas that do not want detection coverage.

There are 8 sections on the mask which can be break off individually, each

section covers 45 degree view.

#### Delayed-Off Time Adjustment:

Note:when the timer is set to minimum (all the way to the left) the delay-off time is 1 second, the LUX setting will be ignored at this timer setting, this setting is used when the sensor is used in a system environment where the lux setting and delay-off is controlled by the system controller and not by the sensor. One can also use this setting for walk testing.

Each time motion is detected, the load remains activated for a pre-set time, which is set by the Delayed-OFF Time Adjustment, The fully clockwise setting is 30 Minutes.IF motion is detected during the ON time, then the load remains activated until the full ON time has passed since the latest motion detection.



#### Sunset Sensor Adjustment:

The sunset sensor saves energy by not switching the light on when there is sufficient daylight in the room. When the sunset sensor is enabled, the sensor goes into stand-by mode when the natural light level exceeds the selected Lux level inhibiting the light from turning on. To set the Lux level, draw curtains or shades until the room is at the darkness that light should be turned on. Adjust the Lux level from day to night until lighting is activated. Note: the sunset sensor is always enabled except when the delayoff time of 1 second is selected where the sunset sensor is automatically disabled.



#### Dim output settings:

To set the Turn-on brightness (70-100% brightness). Note: brightness setting 70%~100% corresponds to Dim output voltage 7V-10V.

