Fidelux **MSSD-H** High Bay Microwave Sensor Module with Step Dimming and Daylight Harvesting

Features

- Settings adjustable via DIP switches and optional **MSSD-RC** remote control
- Tri-level control via 1-10V output
- Accurate, reliable operation
- Up to 40' mounting height
- 5 Year limited warranty

Factory Default Settings
Defaults are indicated as [**X**]
Detection range: 50%, [**100%**]
Hold Time: 5s, 30s, 1m, [**10m**]
Standby Period: 0s, 30s, 20m, [**∞ (infinite)**]
Standby Dimming Level: 10%, 20%, [**30%**], 50%
Daylight Threshold: 2 Lux, 10 Lux, 50 Lux, [**Disabled** (Immediate activation)]

For customization of default settings, please contact factory

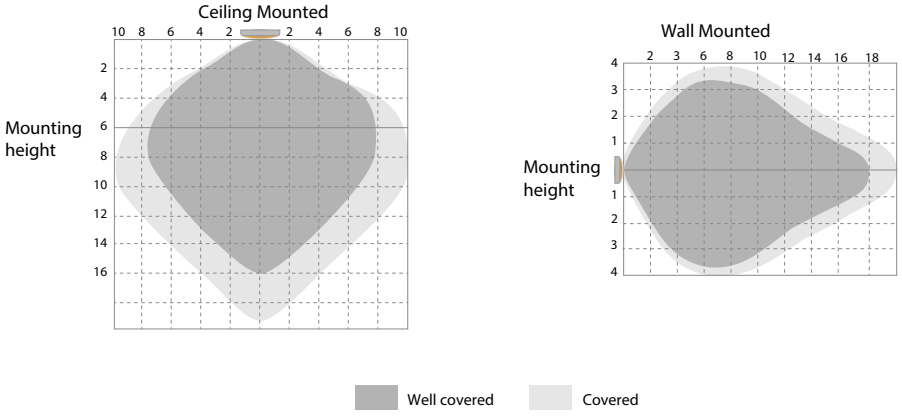
For remote control features and operation, please refer to **MSSD-RC**.

Technical data

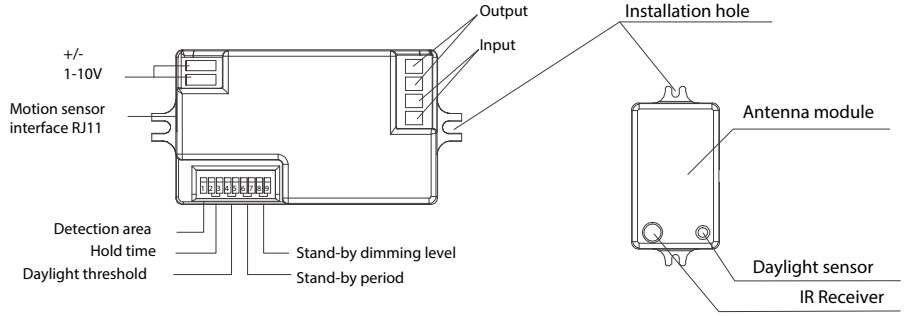
Operating voltage	120-277VAC,50Hz/60Hz
Switching capacity	Max 3.0A@120VAC, 50/60Hz; Max 2.0A@277VAC, 50/60Hz
Stand-by power	≤1W
Control method	On/off / 1-10V Dimming Remote Control
Microwave frequency	5.8GHz ± 75MHz
Microwave power	<0.3mW
Detection area	50%/100%
Hold time	5s/30s/1min/10min
Daylight threshold	2Lux/10Lux/50Lux/Disable
Stand-by period	0s / 30s / 20min / +∞
Stand-by dimming level	10% /20%/30%/50%
Mounting height	26.25 – 40ft
Detection range	Max. ø 45.93ft
Motion detection	1.5 – 5 f/s
Operating temperature	-30°C to +70°C / -22°F to 158°F
IP rating	IP20
Warranty	5 years

Detection coverage

This figure indicates the maximum distance at the highest mounting height with 100% sensitivity. Typical installation height 26-40ft



Components



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Specifications may change without notice

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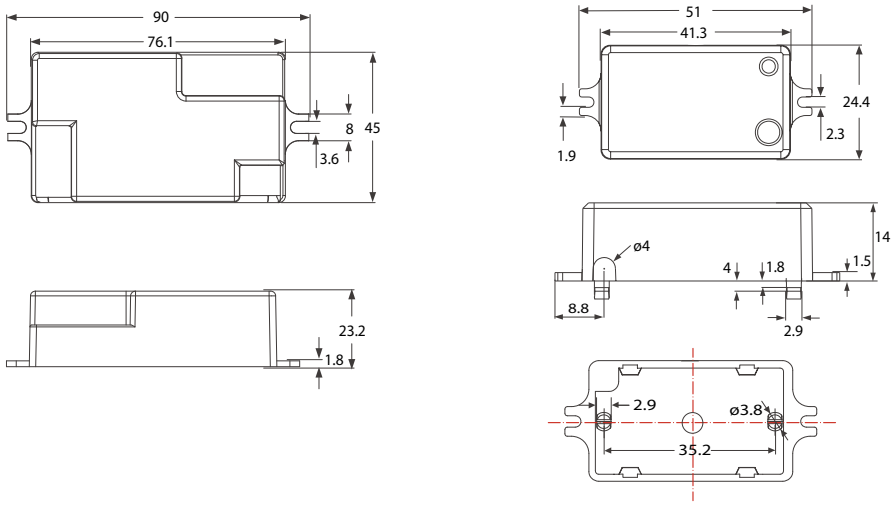
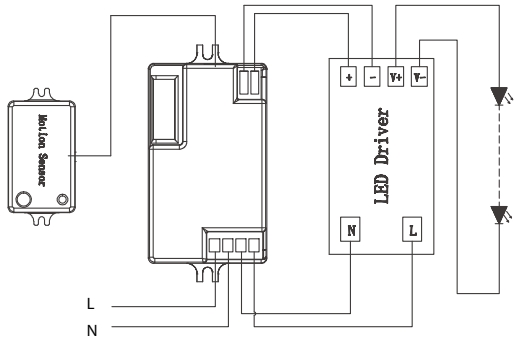
Dimensions (Unit: mm)



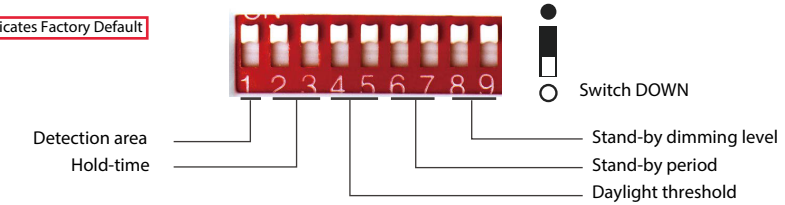
Note: For motion sensor setting and dimming setting please refer to remote control MSSD-RC.

Wiring diagram



Settings

Indicates Factory Default



●	100%
○	50%

Detection area

In this area, movement will be detected and able to trigger the sensor. 100% detection area is also known as strong sensitvity.

●	●	5s
○	●	30s
●	○	1min
○	○	10min

Hold time

The period of light at 100% brightness after moving objects leave the detection area.

●	●	Disable
○	●	50lux
●	○	10lux
○	○	2lux

Daylight threshold

Defines ambient brightness; when the ambient brightness is lower than the preset lux amount, the sensor will activate; when set to "Disable", the sensor triggers regardless of the ambient brightness.

●	●	0s
○	●	30s
●	○	20min
○	○	+ ∞

Stand-by period

The duration of light at low output level before it's completely switched off.
When set to +∞, brightness remains at low output level without shutting off.

●	●	10%
○	●	20%
●	○	30%
○	○	50%

Stand-by dimming level

Defines low output level in the standby period.

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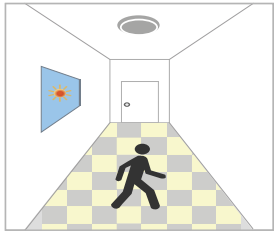
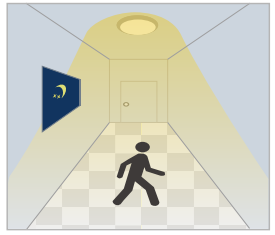
Application

1. Automatic ON/OFF function:

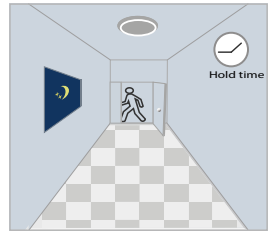
Light turns ON with movement detection and OFF after people leave at night. Applications: Corridor, Staircase.



With sufficient daylight, even when motion is detected, light remains OFF.



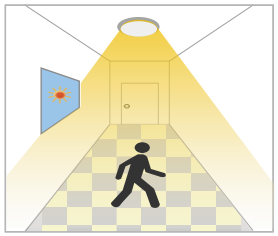
With insufficient daylight, when motion is detected, light turns ON.



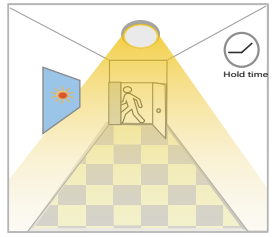
After the last detection and the present hold time elapses, light turns OFF.

2. No daylight function

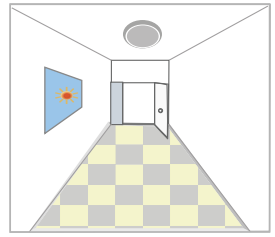
The daylight threshold is set to "Disable".
Light turns on with movement detection. After people leave, light turns OFF after stand-by period. Applications: Dim places such as Basement Parking, Underpass.



When motion is detected, the light turns ON to 100% brightness.

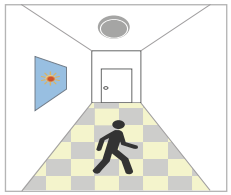


After people leave the detection area, light remains at 100% brightness within hold time.



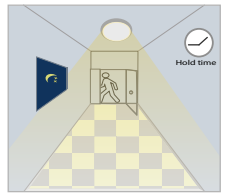
After the last detection and the present hold time elapses, light turns OFF.

3. Function Demo - Dimmable control/Corridor function

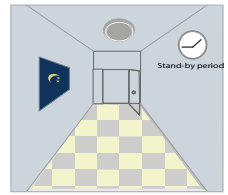


With sufficient daylight, even when motion is detected, light remains OFF.

With insufficient daylight, when motion is detected, light turns ON.



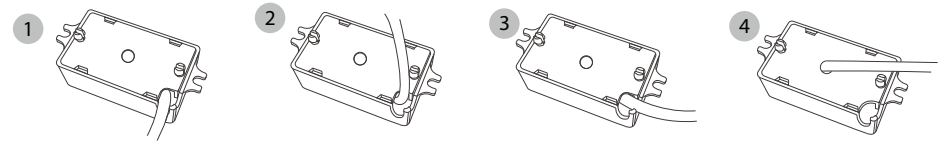
After last detection, the light will be dimmed down to the stand-by dimming level (10%, 20%, 30% or 50%) after hold time.



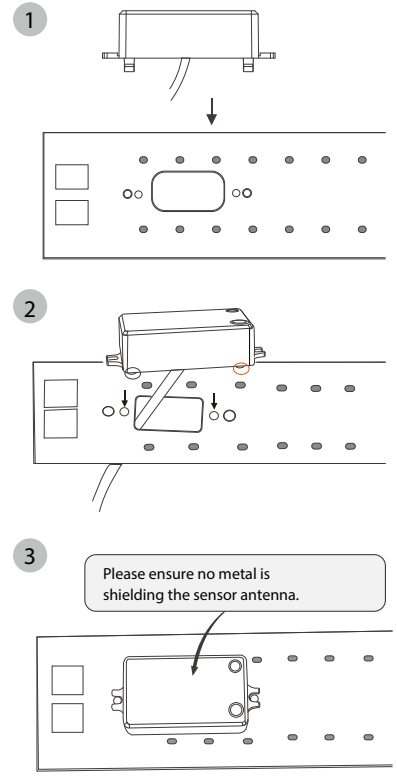
After the stand-by period elapses, light turns OFF.

Installation Method

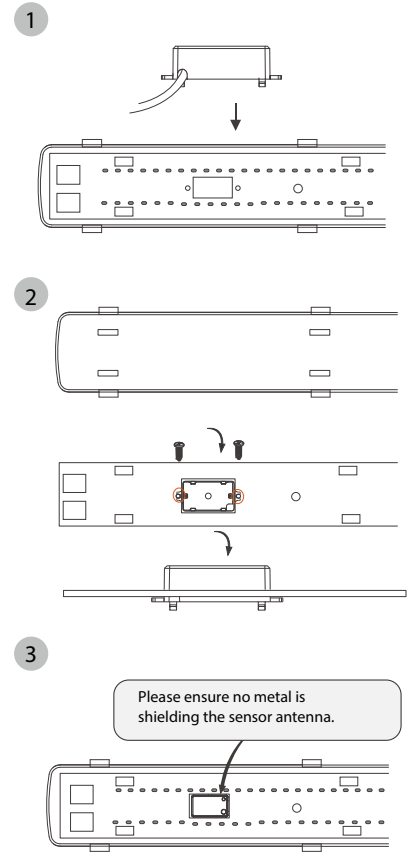
4 styles of installation



Cable on center



Cable on top



Specifications may change without notice

Attention

1. Please read the instructions carefully before using this product. Keep all instructions.
2. The sensor should be installed by a qualified electrician.
3. Ensure power is off before installation or servicing.
4. Any unauthorized modification is forbidden and will void warranty.
5. This document is subject to change at any time. Please contact factory to ensure you have the most current version.

Installation precautions

1. Microwave sensor and detection area cannot be blocked or shielded by metal.
2. Make sure the microwave module is completely open to detection area.
3. Ensure sensor module is installed facing the detection area.
4. Sensor should be kept away from the driver to avoid electrical interference.
5. Wiring must be done strictly in accordance with the wiring diagram.

Application Environment

1. Suitable for stable indoor installation only.
2. Ensure fixtures are installed at the appropriate height
3. Do not install in areas where wind, ventilation, or vibration may move fixtures
4. Do not install in small areas of operation

User Notes

1. Microwave can penetrate nonmetallic / nonmasonry walls and doors and glass thinner than 20cm.
2. Performance will be degraded if objects/structure within walls cause interference or if glass is thicker than 20cm.
3. The driver voltage shall be stable and not exceed variance of 10%.
4. Detection area will be affected by speed of motion, mounting height and movement volume.
5. Conduct test on sunny days without the lampshade which will affect the tested lux value.