



(DIP Switch)



U-S-RC
(OPTIONAL)



Bi-Level & Daylight Harvesting Microwave Sensors

Altech's U-S-PSDMS-INT series are designed to be installed inside of lighting fixtures . Typical applications may include shopping mall , warehouses, distributions centers ,parking garages, and assembly areas and so on.

This product series operates using 120-277VAC mains voltage. No additional power back is required.

The sensor emits microwaves at 5.8Ghz frequency and uses the Doppler Effect to detect motion. It has design features that enable it to detect direct and tangential motion, but it is best at detecting direct motion(coming towards or away from the sensor).

For best performance the sensor should be installed at height 20 ft. Sensing pattern will vary based on the particular mounting method used.

This product series can see through many types of low density materials such as glass , wood, or plastic. Sensor range (unobstructed)is up to 20 ft. However ,range is adversely affected by the type and density of the materials will completely block the sensor (eg:metals) and some materials will significantly reduce the range.

Applicable to:



**Wall Pack
Decade Series
(U-IWP)**



**Vapor Tight (4')
Industries Series
(U-VT4)**



**Architectural Series
Flood Light
(U-HFL)**



**LED Linear
High Bay
(U-HBL)**



**LED Low Bay
Canopy Mammoth
Series (U-LPCN)**

0-10V Dimming Function

Model No.	Description	Input Voltage (VAC)	Output / Max Load	UL
U-S-PSDMS-INT	ON/OFF Low Bay sensor Mounting height: Max 20ft Detection radius: Max. detection radius 26ft Operating temperature: -40°F ~ 158°F (-40°C ~ 70°C)	120-277	Resistive/Tungsten - 600W@120V Electronic Ballast - 800W@120V/1200W@277V	✓

Dimming Function

This function inside the motion sensor to achieve tri-level control, for some areas which require a light change notice before switch-off. The sensor offers 3 levels of light: 100%-->dimmed light (natural light is insufficient)-->off; and 2 periods of selectable waiting time: motion hold-time and stand-by period; Selectable daylight threshold and freedom of detection area.



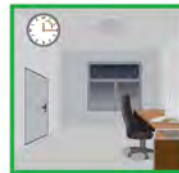
With sufficient natural light, the light does not switch on when presence is detected.



With insufficient natural light, the sensor switches on the light automatically when presence is detected.



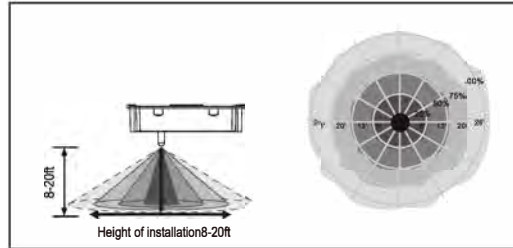
After hold-time, the light dims to stand-by level if the surrounding natural light is below the daylight threshold.



Light switches off automatically after the stand-by period elapses.

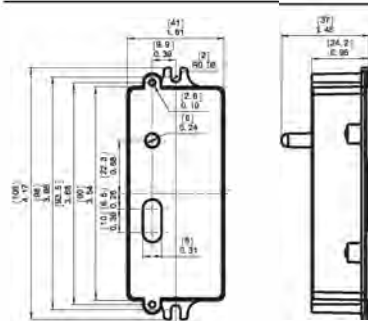
Coverage

U-S-PSDMS-INT



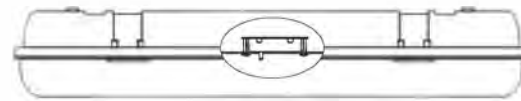
Dimensions & Mounting

Sensor Dimensions

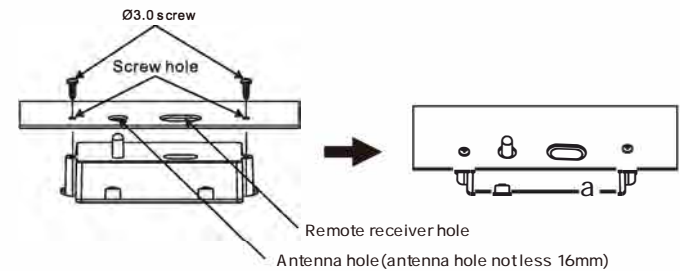


U-S-PSDMS-INT

Sensor Mounting



Mounting behind of PCB



Wiring

Wiring with dimming ballast or LED driver.

Dimming Driver

