MOTION SENSOR WITH AUDIO JACK BASE

▶ **DESIGN** - MICROWAVE MOTION SENSOR WITH AUDIO JACK BASE provides energy-effective lighting control solution that enables the lights light up upon detection of movement and turn itself off if not required. It operates on 12V input power with 0-10V dimming option. The sensor can be installed at the maximum height of 13ft.

▶ **DEFAULT SETTINGS** - You can use default settings to cover most standard applications: Detection Area - 100%, Hold time - 10min, Daylight Threshold - disable, Standby Period - 0s, Standby Dimming Level - 10%.

▶ **ADJUSTMENTS** - Using remote you can adjust: Detection area 25%-100%, Hold time 5s-120min, Daylight threshold 2-400lux, Standby Dimming Level 10-50%, Standby Period 0s - +∞.

▶ **BATTERY BACK-UP** - The sensor is compatible with ASD Battery Back-up, switches to Back-up mode when the power is off, and is back to the programmed operation mode when AC mode is renewed.

▶ **APPLICATION** - Sensor with audio jack base is ideal solution for most indoor commercial lighting fixtures such as linear flat panels, troffers and suspension mounting LED linear strip lights.

Catalog number	
Notes	
Type	

Model	Watts	Voltage	Dimmable	Finish	Dimensions (LxWxH)
ASD-08MW-WH	0.36W	12 V	0-10 V	White	2-5/8" x 3/4" x 1"
REMOTE CONTROL					
ASD-06RC	-	-	-	White	5-11/16" x 1-3/4" x 13/16"

PRODUCT SPECIFICATIONS:

Construction & Materials	
Housing	Plastic
Environmental system	
Work environment	Suitable for Damp Locations
Operating temperature	-13°F to 140°F (-25°C to 60°C)
Regular and voluntary certifications	
3-year limited warranty	

ORDERING INFORMATION

Model	UPC	Pcs. in middle box	Middle box size	Middle box weight	GTIN 14 in middle box	Pcs. per carton	Carton size	Carton weight	GTIN 14 in carton
ASD-08MW-WH	810128113731	10	3.2" x 1.7" x 10.4"	0.4 lbs	20810128113735	120	11.2" x 7.5" x 10.2"	11.4 lbs	30810128113732
REMOTE CONTROL									
ASD-06RC	810128114370	10	6.3" x 2.9" x 11.4"	0.5 lbs	30810128114371	60	15.8" x 11.8" x 9.3"	24.7 lbs	40810128114378

For most up-to-date spec sheets please refer to asd-lighting.com

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MOTION SENSOR INFORMATION

REMOTE CONTROL ASD-06RC sold separately

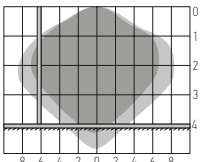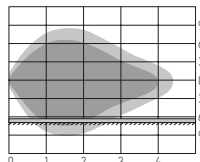| Button	Remarks	Button	Remarks	Button	Remarks
ON/OFF ON/OFF	Turn the sensor ON/OFF.	M H Mounting height	Adjust detection area/sensitivity levels according to real installation situations, higher or lower.	Up	The main functional buttons to adjust the factors to desired level. Press + - button to dim light directly auto in non-detection mode.
Auto Auto	Enter "sensor mode" and perform previous settings.	Send Send	Memorize and send out the previous setting of individual parameters.	Down	
Reset Reset	Enter "sensor mode" and perform the default settings.	Detection range	Also known as "sensitivity", 100 % means the highest sensitivity and longest distance. Use this button and the + - buttons to adjust.	CCT CCT selectable	Not applicable to this product.
Scenes Scenes	Shows current settings saved in remote.	Daylight sensor	The preset lux level at which motion will be detected. Use this button and the + - buttons to adjust.	POWER Power	Adjust brightness in both ON/OFF mode & sensor mode, minimum 10%, max 100%, each time this button is pressed it changes by 5%.
Start Start	Press this to begin scene setup.	Stand-by dimming	After hold time, the light will dim from 100 % to optional standby dimming levels. Use this button and the + - buttons to adjust.	Reserved button	Not applicable to this product.
Memory Memory	Saves the scene settings.	Hold time	The period that light will stay illuminated 100 % after no motion is detected. Use this button and the + - buttons to adjust.	Daylight harvesting	Daylight harvesting function enabled or disabled.
Appy Apply	Applies current scene settings to the fixture.	Stand-by period	The period after holdtime, during which the light keeps standby dimming level. Use this button and the + - buttons to adjust.	Test Test button	Press this button to test the sensor; it will temporarily change the hold time to 2s. This setting cannot be saved.

ASD-08MW
Microwave motion sensor audio jack

+

ASD-06RC
Remote control

Highest mounting height is 13.1 ft (4 m). This figure indicates the maximum distance at the highest mounting height with 100 % sensitivity.

Well detected area
Possibly detected area

Ceiling mounted

Wall mounted

User notes:
1. Microwaves can penetrate walls or glass thinner than 0.8" but will be impaired if thicker than 0.8".
2. The driver voltage shall be stable and float within 10 %.
3. Detection area will be affected by speed of motion, mounting height and movement volume.
4. Conduct testing with adequate ambient lighting for best results.
5. Dimming performance differs when connected to different drivers; If the driver can't completely turn OFF, sensor can't either.
6. The first time powered ON sensor, light will be ON 100% for about 10S then dims to standby level or OFF.

Installation precautions:
1. Suitable for ceiling mount installation, adjust sensitivity properly if it's installed on side-wall because it gets more sensitive.
2. Make sure the microwave module is completely exposed.
3. The detection surface of the sensor module should be installed facing the detection area.

Application environment:
1. Suitable for indoor application, half/completely outdoor environment conditions might trigger the sensor.
2. Shall be mounted securely, to avoid any false triggers caused by movement of the fixture itself.
3. Keep the sensor module away from AC input and DC output to avoid high/low frequency signal interference.

Specifications		Default setting
Detection area	25 %/50 %/75 %/100 %	100 %
Hold time	5 s/30 s/1 min/2 min/3 min/5 min/10 min/15min/ 20 min/25 min/30 min/45 min/60 min/90 min/120 min	10 min
Daylight threshold	2 lux (0.2 fc)/10 lux (0.9 fc)/30 lux (2.8 fc)/50 lux (4.7 fc)/ 80 lux (7.4 fc)/120 lux (11.2 fc)/200 lux (18.6 fc)/250 lux (23.2 fc)/ 300 lux (27.9 fc)/350 lux (32.5 fc)/400 lux (37.2 fc)/disable	Disable
Standby period	0 s/5 s/30 s/1 min/2 min/3 min/5 min/10 min/15 min/20 min/ 25 min/30 min/45 min/60 min/+ ∞	0 s
Standby dimming level	10 %/20 %/30 %/50 %	10 %
Operating voltage	10 - 15 V	-
Operating current	≥ 40 mA	-
Mounting height	max 13.1 ft (4 m)	-
Detection range	> 65 ft (20 m)	-
Operating frequency	5.8 GHz ± 75 MHz	-
Transmitting power	< 0.3 mW	-

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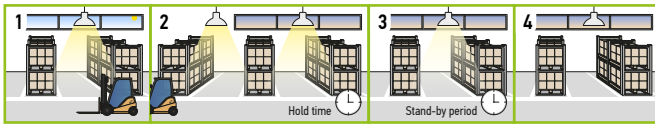
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WITH DUSK/DAWN FUNCTION:

1. With insufficient ambient brightness, sensor turns on light and keeps it at standby dimming level even if there is no motion or presence.
2. When sensor detects motion or presence it will bring the light level up to 100 %.
3. After motion is no longer detected, fixture remains at 100 % for hold time.
4. After pre-set hold time period it will dim to standby dimming level again and always keep it.
5. With sufficient ambient brightness, sensor will turn OFF light automatically.

WITH DAYLIGHT DISABLED:

1. Sensor turns ON light when motion is detected.
2. Light will stay on after detecting motion for the desired hold time.
3. Sensor dims light to standby dimming level after hold time if there is still no motion.
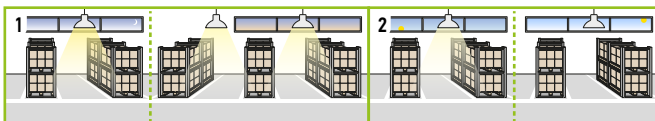4. Sensor turns OFF light after standby period.

WITH DAYLIGHT THRESHOLD:

1. With sufficient daylight, the light remains OFF even after motion is detected.
2. With insufficient daylight, the sensor turns light ON when motion is detected.
3. After there's no motion detected, the sensor keeps light ON 100 % for holdtime.
4. After holdtime, sensor dims light to standby dimming level for standby period. If the standby period has been set as 0s, sensor turns light OFF automatically after holdtime.
5. The sensor turns OFF light automatically after the standby period when there's no motion detected.

DAYLIGHT HARVESTING:

1. When ambient brightness is lower than preset lux level, sensor will turn on light automatically and keep dimming according to the change of the ambient brightness. As it gets darker outside the fixtures will brighten, and as it gets brighter outside the fixtures will dim down.
2. When the ambient brightness exceeds the preset lux level, the light will turn OFF.
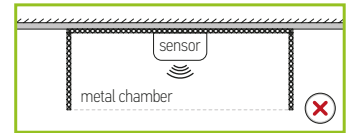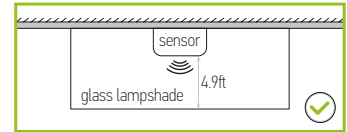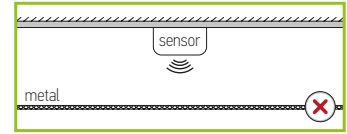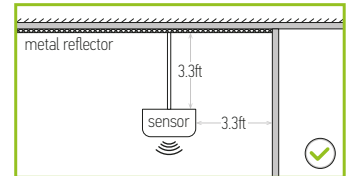

MICROWAVE MOTION SENSOR:

To avoid blocking the microwave emission, the microwave sensor can not be covered with metal materials, be sprayed with a coating of metal components, or have attached metal material or stickers etc.

The distance between the antenna and the glass (dielectric material) should be no less than 0.4 ft when the sensor is within the glass lampshade. Otherwise, the microwave motion sensor will not penetrate the glass easily.
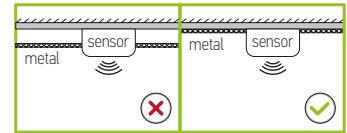
Avoid placing the sensor inside a metal chamber, this may cause a mis-trigger.
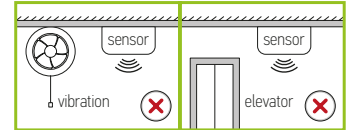

The sensor should not be placed in a small confined space. To avoid increasing the sensor detection range or abnormal operation, the sensor should be kept away from large areas of metal and glass reflectors (separation distance at least 3.3 ft). Reduce the detection area setting.
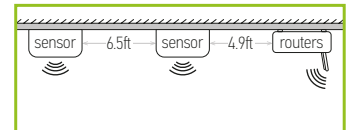
To avoid affecting the microwave signal transmission, the microwave antenna should be higher than the surrounding metal surface.

Any vibration or movement may trigger the sensor. Ensure the sensor is far from any constant movement.

At least 2 m/6.5 ft distance between microwave sensors;
1.5 m/4.9 ft between the sensor and other wireless devices such as routers to avoid possible radio interference.

DAYLIGHT HARVESTING SETTING:

1. Adjust "daylight" value higher than 50lux.
2. Preset "standby period" 0S.
3. Press "daylight harvesting" button on remote control to activate.

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