

MOTION SENSOR ESS-100

Optimize the energy usage of your lighting system

The no built-in LED variant of the series, the ESS-100 can be integrated with external lighting, as a sensor that turns them on when it detects the presence of an occupant. The ESS-100 automatically switches lights on or off, using Pa-PIR passive infrared sensor technology; which detects motion as well as body temperature, ensuring spaces are illuminated only when they are occupied. This easy to install Motion Sensor is ideal for residential, commercial, and office spaces; allowing you to save up to 60% of your lighting-related energy consumption. Now you can enhance both the sustainability and occupant experience of your built spaces, at the same time. Smart lighting was never so easy.



ESS-100

Motion Sensor without built-in LED

FEATURES AND BENEFITS



- **Retro-fit** – no need for a major cabling change



- **Plug and play** – light and motion detection with Pa-Pir sensor



- **Energy savings** up to 60%





- **Robust quality** – backed by Honeywell standards

PRODUCT SPECIFICATIONS

FEATURE	SPECIFICATION
Power Rating	~230 V AC/50-60Hz
Detection Range	92°(Vertical)/102°(Horizontal)
Detection Distance	Max.12m
Detection Speed	0.6 ~ 1.5m/s
Average Load	Max.1150W (~220V AC)
Environment Temperature	-20°C ~ +40°C
Environment Humidity	Max. 93%
Ambient Light	<3-2000 Lux (Adjustable)
Time-Delay	Min. 15 Seconds ~ Max. 9 Minutes (Adjustable)
Installation Height	2m ~ 6m
Dimensions	50 * 100 * 100 (in MM)
Weight	127g ms
Lumens	NA (Depend Upon external Light used)

PRODUCT COMPARISON TABLE

MODEL	ESS-100	ESS-101-L	ESS-102-LD	ESS-103-LB
Photo				
Description	Motion sensor for existing light source	Combined motion sensor & light source	Combined motion sensor & light source with variable dimming control (30% to 100%)	Combined motion sensor & light source with rechargeable battery (no wires)
Light Source	External Light Required	In-Built LED	In-Built LED (with dimming)	In-Built LED
Power Rating	230V AC	15W/230VAC	15W/230VAC	5W/Battery Operated
Lumens	NA (Depend Upon external Light used)	1600 Lumens	450 / 1600 Lumens	450 Lumens
Size (Dimensions)	50 * 100 * 100 (in MM)	50 * 100 * 100 (in MM)	50 * 100 * 100 (in MM)	50 * 100 * 100 (in MM)
Weight (gms)	127 gms	273 gms	270 gms	233 gms

SUGGESTED USER PRECAUTIONS

1. Before installation, please read the instructions carefully, and preserve them for future reference.
2. Keep away from heating/streaming/air conditioning devices.
3. Don't impact the lens with any object.



INSTALLATION GUIDELINES

1. Switch off the power.
2. Turn the bottom-stand Clockwise, and take it off. The power wire cross the hole in the middle of bottom-stand.
3. Fix the bottom-stand onto the selected position with inflated screw
4. Connect the power and the load into the connection-wire column of the sensor according to connection-wire diagram.
5. Aim the Sensor towards the mouth of the bottom-stand and turn it anti-clockwise



OPERATION

1. Detection-angle/Detection -distance/Installation height are shown in the accompanying figure.
 - a. Detection angles are 92°(Vertical)/102°(Horizontal).
2. You can adjust time delay (TIME)/ambient light (LUX) using adjustment knobs as shown in the figure.
 - a. Time delay is adjustable from 15 Sec to 9 Min (+/-10%). To increase time delay, please turn the adjustment knob clockwise.
3. Ambient light sensitivity level is adjustable between 5-1000 LUX.
 - a. To use sensor in daylight conditions please turn the adjustment knob counterclockwise. In poor illuminated environment adjust the knob clockwise.

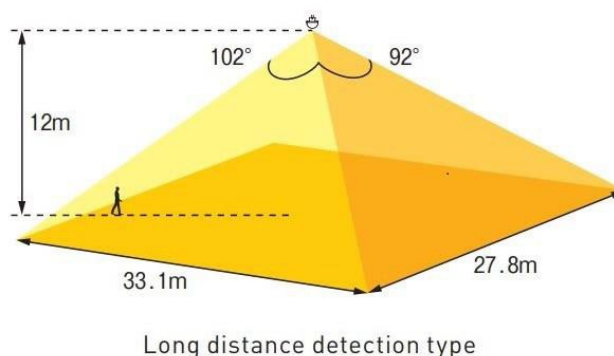
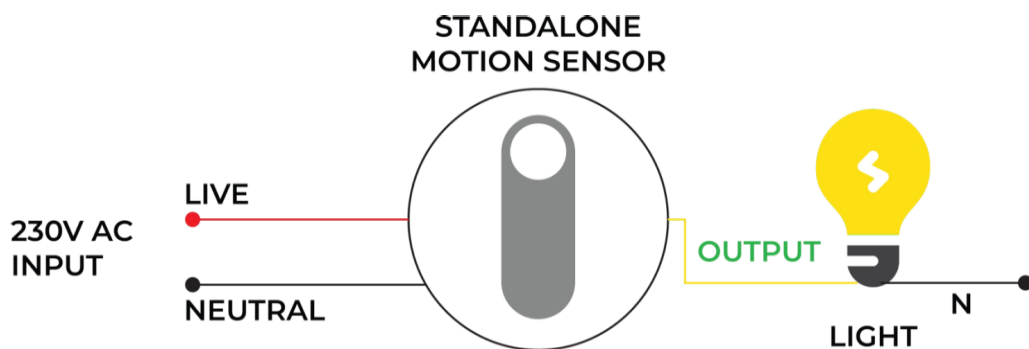
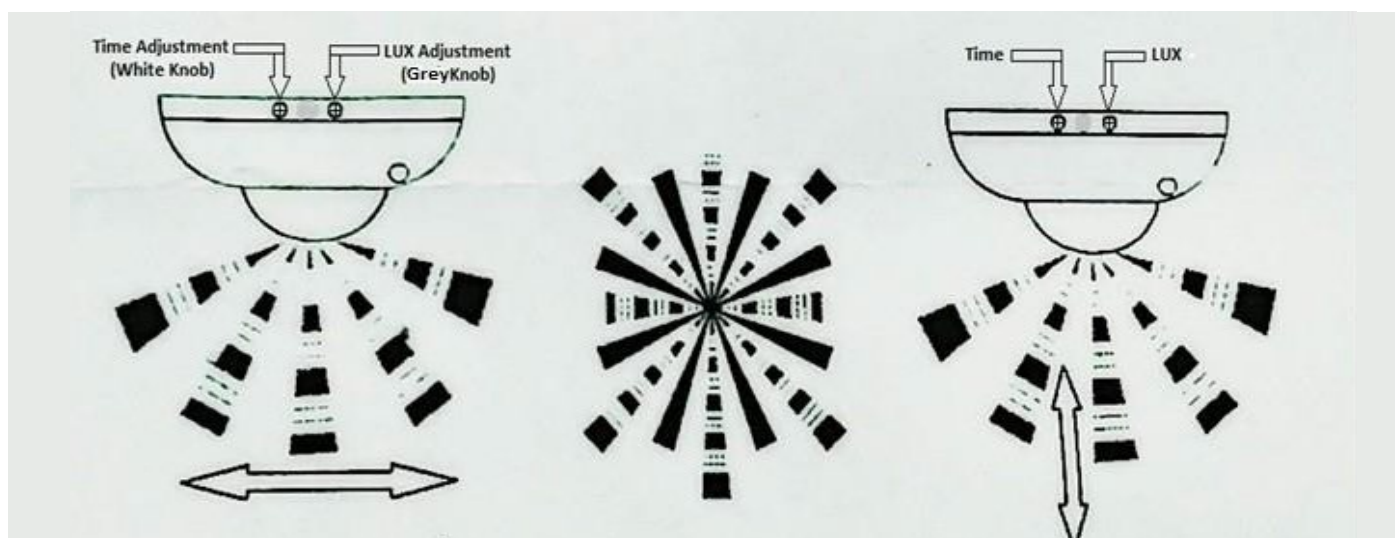


Figure-1

DIAGRAM



Motion Sensor Wiring Diagram



Correct moving orientation

Incorrect moving orientation

LUX & Time Adjustment Knob Details

For more information,

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IMPACT
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