

PIR OCCUPANCY BI-LEVEL SENSOR FOR HIGH AND MID BAY FIXTURES

This Sensor is a passive infrared occupancy bi-level fixture sensor that mounts into indoor light fixtures and also provides daylight harvesting control. It is powered by a 12VDC power supply and has a 0-10V dimming capacity. All controls parameters (hold time, task level light, standby level, stand-by time) are adjustable via a dip switch and works with a remote control.

SPECIFICATIONS

POWER SUPPLY	12VDC
DIMMING	0-10V
MOUNTING HEIGHT	15 feet maximum
DETECTION ANGLE	120 degree
OPERATING TEMP	-4 - 158F
RATED	IP20
WARM UP TIME	40 seconds

FUNCTIONS

PIR Sensor offers 2 levels of light control:

- **PIR Motion Sensor** - The PIR sensor will always switch ON automatically on detecting presence OR manually with power switch (even without detecting presence). The Sensor offers 4 levels of control via a DIP switch on the unit:
 1. Hold Time
 2. Daylight Sensor
 3. Stand-By Light Level
 4. Stand-By Time
- **Daylight Harvesting** - When Day Light Harvesting is enabled, the light output regulates between Task and Stand By levels according to the level of natural light available.

PART NUMBERS

- **PIR-SENSOR-ANT-4A** (PIR sensor with 12V with dimming and daylight harvesting functions)
- **MUSP-12V-03** (12V switching power supply, 3.6W dual output)



PIR Sensor



Remote Control

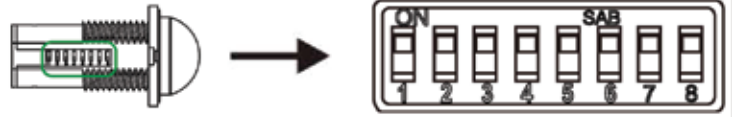


Power Supply

HOW THE PIR SENSOR WORKS

- When there is sufficient natural light, the light does not switch on when a person enters room.
- When there is insufficient natural light, the sensor switches on the light automatically when a person enters the room.
- When the person leaves, the light dims to the stand-by level (optional percentages) after the hold time.
- Light switches off automatically after the stand-by time has elapsed.

DIP SWITCH



Switches 1, 2 – Set Hold Time

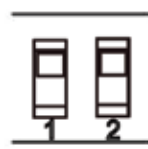
Switches 3, 4 – Daylight Sensor

Switches 5, 6 – Set Stand-By Light Level (Dimming)

Switches 7,8 – Set Stand-By Time

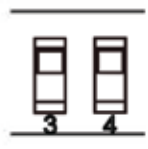
Hold Time Setting (Switches 1 and 2)

The light can be set to stay ON for any period of time between 10 seconds to a maximum of 30 minutes when a person leaves the room. Any movement detected before this time elapses will re-start the timer. It is recommended to select the shortest time for adjusting the detection zone and for performing a walk test. Put the switch to the ON position as "↑" or put switch to the OFF position as "↓". Switch location and light-control is as follows:

ON ↑ ↓ OFF	 TIME:1, 2	1 2 Setting ↓ ↓ 10 Seconds ↓ ↑ 5 Minutes ↑ ↓ 10 Minutes ↑ ↑ 30 Minutes
---------------------	---	---


Daylight Sensor Setting (Switches 3 and 4)

The chosen light response threshold can be infinitely from approximately 10-100 lux. Put the switch to the ON position as "↑" or put switch to the OFF position as "↓". Switch location and light-control is as follows:

ON ↑ ↓ OFF	 LUX:3, 4	3 4 Setting ↓ ↓ Light Sensor Disabled ↓ ↑ 10 Lux ↑ ↓ 50 Lux ↑ ↑ 100 Lux
---------------------	---	--

Stand-By Light Level Setting (Switches 5 and 6)

You can choose the percentage of light you want to stay on during the hold time after person leaves the room. Put the switch to the ON position as "↑" or put switch to the OFF position as "↓". Switch location and light-control is as follows:

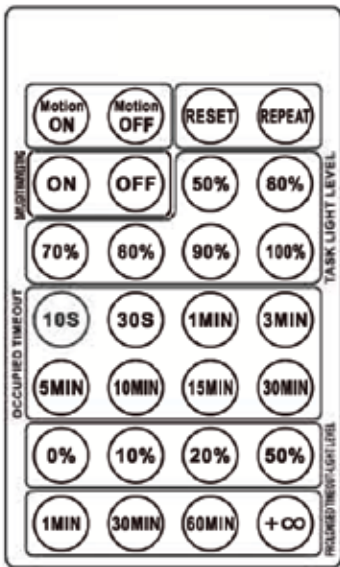
ON ↑ ↓ OFF	 STAND-BY LEVEL:5, 6	5 6 Setting ↓ ↓ 0% ↓ ↑ 10% ↑ ↓ 30% ↑ ↑ 50%
---------------------	---	---











Stand-By Time Setting (Switches 7 and 8)

You can choose the amount of time you want the light to stay on after person leaves the room. Put the switch to the ON position as "↑" or put switch to the OFF position as "↓". Switch location and light-control is as follows:

ON ↑ ↓ OFF	 STAND-BY TIME:7, 8	7 8 Setting ↓ ↓ 0 Minutes ↓ ↑ 1 Minute ↑ ↓ 30 Minutes ↑ ↑ 60 Minutes
---------------------	---	---

DAYLIGHT HARVESTING FUNCTION SETTING BY REMOTE CONTROL



	Press the "Motion ON" button, the motion function is opened.		Press the "Motion OFF" button, the motion function is disabled. The luminaire is unaffected whether or not a moving signal is detected.
	Press the "RESET" button, all parameters are restored to DIP switch setting.		Press the "REPEAT" button, copy the parameters set by the remote control last time. Can be repeated "adhesive" to different lamps, set the same parameters.
	Press the "ON" button, the daylight harvesting is turned on.		Press the "OFF" button, the daylight harvesting is turned off, that the light is not affected by ambient brightness, means daylight harvesting is disabled.
	Task light level, means set the indoor ambient brightness value. The light output regulates automatically according to the level of natural light available.		Occupied timeout, the time that the sensor will turn off (if choose "LIGHT LEVEL" is 0%) or dim the light to a low level after the area is vacated.
	LIGHT LEVEL , to set the output level of connected lighting during vacancy. The sensor will regulate the lighting output at the set level. Setting the "0%" means light full off during vacancy.		PROLONGED TIMEOUT , to represents the time that the sensor will keep the light at low dim level after the "OCCUPIED TIMEOUT" elapsed.