

POH-946 series

Under Cabinet Occupancy Sensor



OVERVIEW

The POH-946 series is a low voltage occupancy sensor designed for under-cabinet LED lighting control. The sensor employs a cutting edge pyroelectric infrared sensor and a compact dome lens to provide excellent occupancy sensing capability. A PWM circuit is integrated to regulate the DC power from the driver to control the connected LED lighting accordingly. Thanks to its low profile design, the sensor can be easily mounted under a cabinet or shelf to provide energy efficient, occupancy sensing based automatic LED lighting control.

The POH-946 series is available with specific model featuring different control modes. You can always find the right sensor to meet customer's requirement, while achieving maximum energy efficiency.

FEATURES

- Excellent occupancy sensing capability
- 2X height with 360° look down coverage
- Control maximum up to 3A (144W@48V)
- Pulse Width Modulation output control
- Easy-to-mount and no setting required
- Lens cap supplied for reducing the range
- 30% preset low dim for bi-level control*
- Smart day & night ambient light sensing**

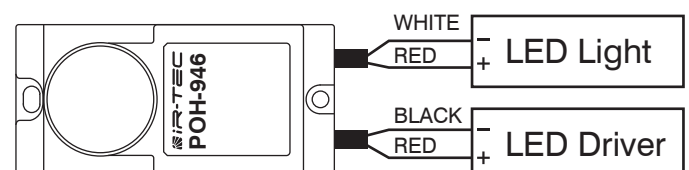
* POH-946MEW not applicable

** POH-946MBW/MCW only

APPLICATION NOTES

- Place the sensor above the area with most motions.
- Do not mount the sensor right above or nearby the stove.
- Use screws to mount the sensor wherever is possible.
- Ideal for LED lighting with Constant Voltage (CV) driver.

WIRING

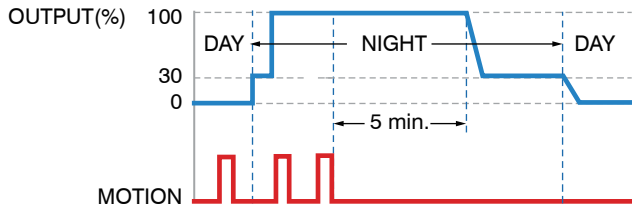


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CONTROL DESCRIPTIONS

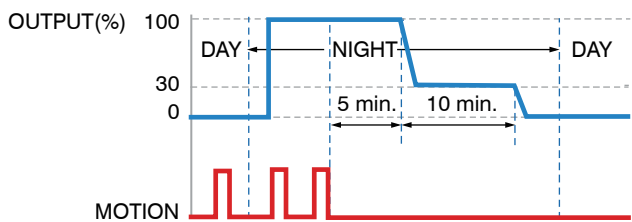
POH-946MBW



The POH-946MBW will inhibit the LED lighting when ambient light level is higher than 50 lux. If ambient light level is lower than 20 lux, the sensor will automatically dim the LED with 30% power to provide safety night light.

The sensor will power the LED to 100% when it detects occupancy. The sensor will dim the LED back to 30% if no movement is detected within 5 minutes. Safety night light will be automatically switched off when ambient light level is higher than 50 lux.

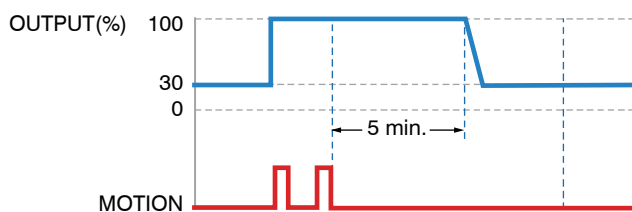
POH-946MCW



The POH-946MCW will inhibit the LED lighting when ambient light level is higher than 50 lux. If ambient light level is lower than 20 lux, the sensor will switch on the LED to 100% power when it detects occupancy.

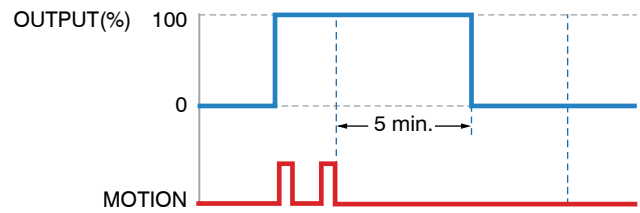
If no movement is detected within 5 minutes, the sensor will dim the LED with 30% power for 10 minutes as Time-Off delay. The sensor will switch the LED back to 100% if it detects movement during Time Off delay, or the LED will be switched off if no further movement is detected.

POH-946MDW



The POH-946MDW will switch on the LED with 100% power whenever it detects occupancy and dim the LED with 30% power if no further movement is detected within 5 minutes.

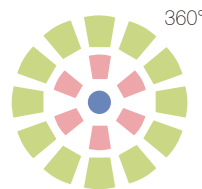
POH-946MEW



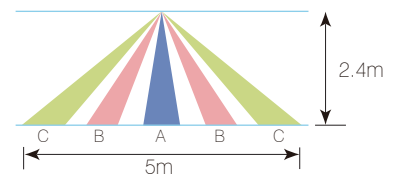
The POH-946MEW will turn on the LED with 100% power whenever it detects occupancy and turn off the LED if no further movement is detected within 5 minutes.

DETECTION PATTERN

Top View



Side View



SPECIFICATIONS

Power supply	12~48 VDC from LED driver
Current drain	<2.5 mA @ 48V, load OFF
Control load	Max. 3A @ 12~48 VDC
Sensing technology	Passive Infrared (PIR)
Control output	1KHz Pulse Width Modulation
Day/Night threshold	Day: >50 lux, night: <20 lux
Warm-up time	Approx. 90 sec.
Detection coverage	2X of mounting height
Mounting height	0.6~3 m (2~10 ft.)
Detection zones	38 zones
Cable length	Approx. 10 cm (4")
Detectable speed	0.15~3 m/sec. (0.5~10 ft./sec.)
Op. temperature	-40°C~55°C (-40°F~131°F)
Dimensions	66x30x24 mm (2.6"x 1.2"x 0.95")

ORDERING INFORMATION

Model No.	ALS	Low DIM	Delay	Time Off	Driver
POH-946MBW	Yes	30%	5 min.	No	CV
POH-946MCW	Yes	30%	5 min.	10 min.	CV
POH-946MDW	No	30%	5 min.	No	CV
POH-946MEW	No	N/A	5 min.	No	CV/CC

For specific delay and dim level, please contact IR-TEC sales.