Toughbay™ Pro PIR dim sensor

LEVITON®

PIR dimming Sensor: LEV71950

To fit sensor to the Toughbay™ Pro - remove the blank cap from the centre of the lens, then fit the sensor making sure not to cross thread by rotating clockwise until hand tight- do not over tighten.
When the sensor is powered on for the first time, the light will be turned on at 100% brightness, and it will be turned off after 45±5s. During the initialization, the external movement induction signal will not be detected.

<u>**NOTE: AFTER A POWER FAILURE THE SENSOR WILL MAINTAIN ITS SETTINGS.**</u>

For use with Toughbay™ Pro. **The default settings below cannot be changed on the sensor manually.**

Default settings are: Detection area 100%, Hold time 3min, Stand-by Period: 5min, Stand-by dim level: 50%, Daylight sensor: Disable.

To commission or adjust settings for individual requirements or individual applications;

Please order LEV71808 Hand Held Remote(one remote can be used for multiple sensors)

To avoid interference between luminaires with sensors installed, we recommend the minimum distance between each luminaire is 3m. PIR sensors should be kept away from air conditioners, refrigerators, exhaust vents, furnaces and other sensitive places where air temperature changes. The detection range of the PIR sensor should not be blocked by screens, furniture or other barriers. Ensure the PIR sensor away from electromagnetic wave products, such as WIFI router /WIFI camera, away from more than 2 meters to prevent electromagnetic wave interference.

SPECIFICATION:

Input Voltage	12 ± 1 VDC
Working current	15 ± 3mA
Detection area	25%/50%/75%/100%
Hold Time	5s/30s/1 min/3min/5min/10min/20min/30min
Daylight Sensor	51ux/15Lux/30Lux/50Lux/1001ux/1501ux/Disable
Standby Period	0s/105/1 min/3min/5min/1 0min/30min/+ ∞
Stand-by dimming level	10% / 20% / 30% / 50%
Sensor principle	PIR motion detector
Mounting height(sensor)	10m (12m) Max.(when mounted at 12m, do not set detection area 25% or 50%, it will not detect correctly)
Motion detection	(0.5-1 m/s) @10m
Operating temperature	0°C TO 40°c
IP rating	IP65
Factory Setting	Detection area:100%,Hold time:3 min, Stand-by Period: 5 min, Stand-by dim level:50%, Daylight Sensor: Disable

FAQ'S

QUESTION	CAUSE	REMEDY
THE LUMINAIRE WILL NOT COME ON	INCORRECT DAYLIGHT SENSOR SETTING SELECTED	ADJUST SETTING
	LOAD HAS FAILED	REPLACE LOAD
	POWER IS SWITCHED OFF	SWITCH ON POWER
THE LOAD IS PERMINANTLY ON	CONTINUOUS MOVEMENT IN DETECTION AREA	CHECK DETECTION AREA SETTING
	THE LUMINAIRE IS INSTALLED IN AN AREA TO CLOSE TO REFLECTIVE SURFACES i.e. GLASS, METAL OR CONCRETE WALLS	1. ENSURE THAT LUMINAIRE IS INSTALLED WITH A MINIMUM 100CM SPACE BETWEEN ANY REFLECTIVE SURFACES 2.REDUCE SENSITIVITY(DETECTION AREA)
WILL NOT ILLUMINATE EVEN THOUGH THERE IS MOVEMENT	SPEED OF MOVING OBJECT IS NOT IN THE RANGE OF 0.5-1M/S OR THE DETECTION RADIUS IS TOO SMALL	CHECK DETECTION SETTINGS
THE REMOTE CONTROL IS NOT WORKING	BATTERY IS DEAD	REPLACE BATTERY
	THE REMOTE CONTROL IS NOT ALIGNED WITH THE SENSOR	CHANGE THE POSITION/ANGLE OF THE REMOTE/CHECK TOGGLE BUTTON SETTING FOR CORRECT HEIGHT

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LEV71808
Sensor Remote Control for LEV71950 user manual
3VDC/2 x 1.5V AAA

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Remote Control Setting	Button	Remarks
	ON/OFF	Press the "ON/OFF" button, the light goes to constant on/off mode, sensor is disabled. Press "Reset" "Sensor motion" button to quit from this mode and the sensor starts to work.(Power off memory: After re-powering, it will be in steady on mode and still in steady on mode, and the on-off mode will be turned into on-off mode after 2 seconds)
	Reset	Press "Reset" button, all parameters are same as setting of DIP switch or factory settings.
	Sensor motion	Press "Sensor motion" button, the light quits from the constant on/ off mode,and the sensor starts to work (The latest setting stays in validity)
	DIM Test	Press "DIM Test" button,the 1-10 V dimming works to test whether the 1-10Vdc dimming ports are connected properly.After 2s, it returns to the latest setting automatically.
	Override DH	Long press>3s,daylight priority mode will be switched to daylight threshold mode ,with preset daylight value
	DIM + DIM -	Set occupany light level in range of 50%-100%,dim level is 5% each time press Dim+/Dim-
	DH Mode	Long press>3s,sensor will be switched to daylight priority mode,if preset daylight value is "Disable",sensor will stay in daylight threshold mode
	Q1 Q2 Q3	(see table below)
	TEST 2S	Press the "TEST 2S" botton can enter the test mode any time. At the mode, the sensor parameters as below: Detection Area is 100%, Hold Time is 5s, Stand-by Dim Level is 10%, Stand-by Period is 0s, daylight sensor disable. This function only for testing. Quit the mode by pressing "RESET" or any other function buttons.
	HS LS	Press"HS"button to set the detection area to be high sensitive. Press"LS" button to set the detection area to be low sensitive. The adjustment bases on the "Detection Area"parameter you set.
	☾☀	Daylight Sensor Set up daylight threshold: 5Lux/15Lux/30Lux/50Lux/100Lux/150Lux/ Disable
	⏱	Stand-by period Set up stand-by time: 0s/10s/1min/3min/5min/10min/30min/+∞
	⏱	Hold time Set up hold time: 5s/30s/1min/3min/5min/10min/20min/30min
	10%–50%	Stand-by dim level Set up stand-by dim level: 10%/20%/30%/50%
	.)))	Detection Area Set up detection area: 25%/50%/75%/100%
	5m 10m 15m	Remote Distance Toggle botton can set the remote distance of remote control and sensor.

Scene Options	Detection Area	Hold Time	Stand-by period	Stand-by dim level	Daylight Sensor	Induction model
QS1	100%	5min	10min	10%	30Lux	HS
QS2	100%	10min	30min	10%	Disable	HS
QS3	100%	20min	30min	10%	Disable	HS

Note: Detection area / Hold time /Stand-by period /Stand-by dim level / Daylight sensor can be adjusted by pressing the corresponding button.The latest setting will stay valid.
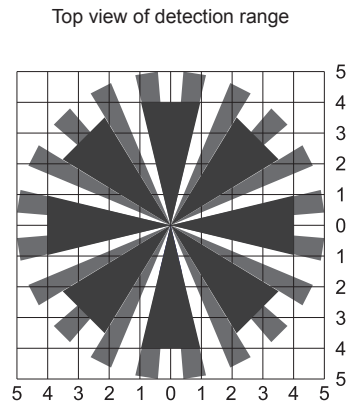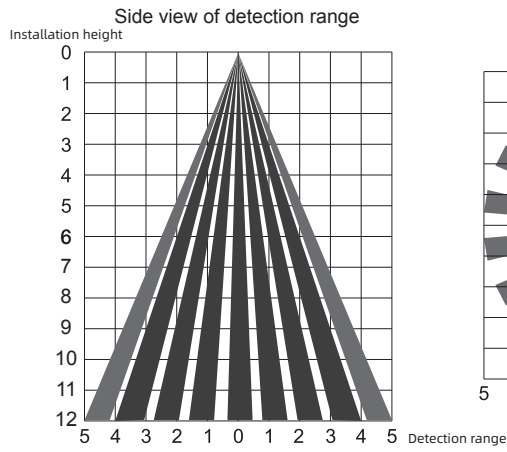
Transmitting angle of remote control against different setting, please choose right button based on mounting height of sensor.

Note: False triggering can occur when a fitting/sensor is installed too close to air conditioners, refrigerators, exhaust vents, furnaces and other sensitive places where air temperature changes. If this happens reduce the detection area sensitivity/percentage to resolve this. It is recommended by the manufacturer that this product is installed a minimum of 2 Metre away from any objects that can cause false triggering through heat changes.
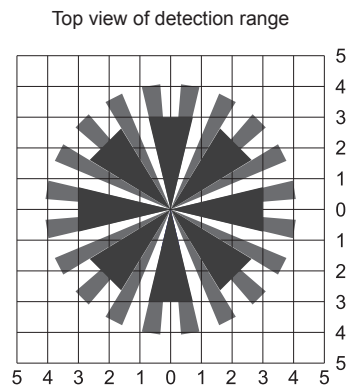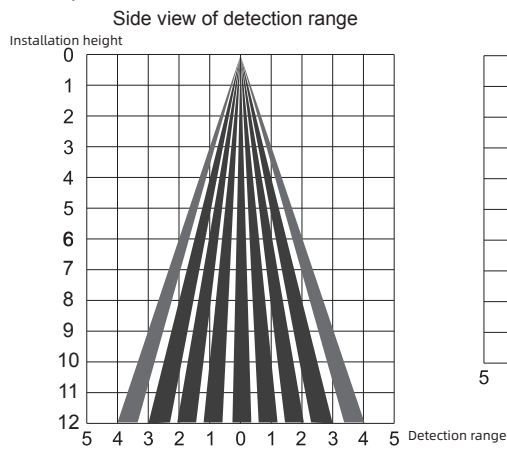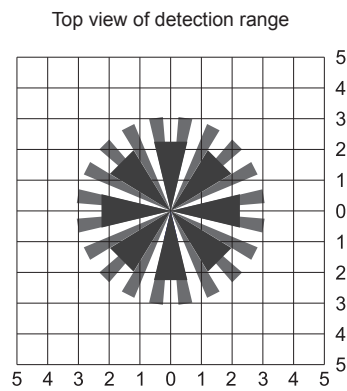
3m Max. — 5m
4m Max. — 10m
5m Max. — 15m

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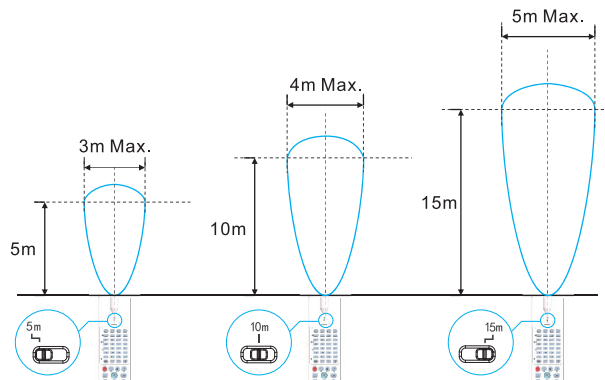
Detection area diagrams

Sensitivity: 100%

Side view of detection range

Installation height

Top view of detection range

Detection range

Sensitivity: 75%

Side view of detection range

Installation height

Top view of detection range

Detection range

Sensitivity: 50%

Side view of detection range

Installation height

Top view of detection range

Detection range

Sensitivity: 25%

Side view of detection range

Installation height

Top view of detection range

Detection range