

360° Ceiling Mount Passive Infrared SenSwitch

LC-360HI

GENERAL

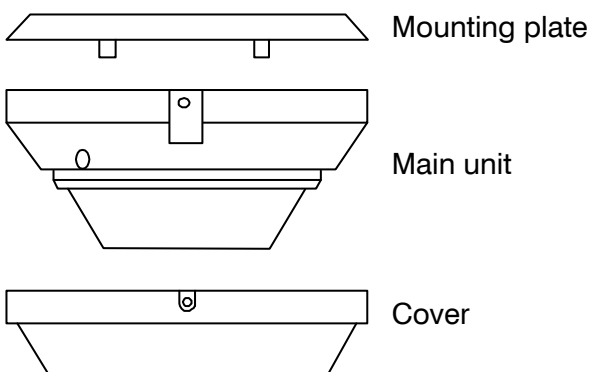
The LC-360HI is a heavy duty 360° ceiling mount passive infrared SenSwitch designed for automatic lighting control and energy management of industrial, commercial and residential buildings. This sensor employs an innovative hybrid switching control technology to switch the load with high inrush current. The connected lights will be switched on automatically when LC-360HI detects the movement of human body. Lights will be switched off automatically if no motion is further detected before the delay time expire. The built-in photocell sensor can be set to inhibit the light switching if the ambient light level is high.

INSTALLATION

Caution: Some local building codes may require installation by a qualified electrician. Consult an electrician about safely rule and correct wiring.

Switch off the power to the lighting circuit before wiring.

- Loosen the cover locking screw, remove the cover from the main unit. Releases two screws on the main unit to disassemble the mounting plate.
- Fix the mounting plate on the ceiling at the center of desire coverage.



Connect the wires according to the wiring diagram of the desired control mode. Replace the main unit, then test can be conducted.

Installation Instructions

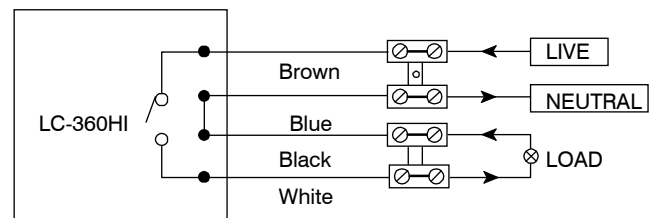
WIRING DIAGRAM

Warning !!!

Wrong connection between "live" and "neutral" wires may cause malfunction or permanent damage to the unit. Verify the feature of power line before wiring.

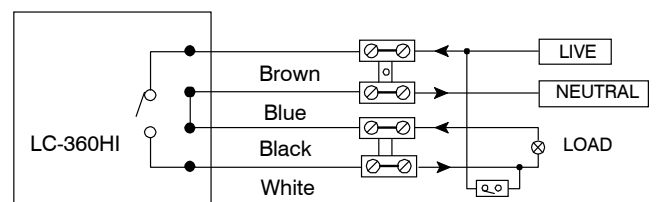
Automatic control

The following diagram shows the connection of automatic lighting control by SenSwitch.



Automatic control with manual-on

An additional manual switch connected in parallel with the SenSwitch provide automatic control of the light when the switch is off. The light will be constantly on when the switch is on, disregard any motion or light level.



WALK TEST

After the wiring completed, check again to ensure correct wiring. Switch on AC mains power, light will remain on about 90 seconds to warm up. After the warm up time expires (light goes off), walk within the detection range at normal speed, light will be switched on automatically when motion is detected.

Note: If the SenSwitch responds to the movement outside of desired range, the provided label can be used to mask the lens segment proportionally.

Note: After the walk test completed, ensure to set the adequate light-on delay time (TIME) and ambient light level (LUX) jumper head at corresponding positions.

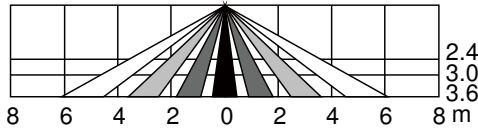
DETECTION COVERAGE

Detection range of LC-360HI varies with the mounting height. Following chart shows the maximum coverage at different ceiling heights.

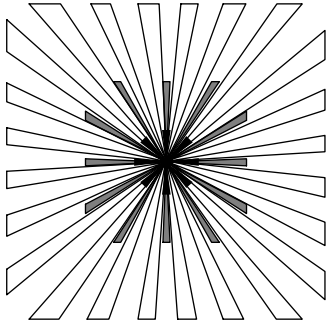
Detection Coverage at 25°C

Mounting m Height (ft)	2.4 (8)	3.0 (10)	3.6 (12)
Detection m Range (ft)	8 x 8 (26 x 26)	10 x 10 (33 x 33)	12 x 12 (40 x 40)

Side View



Top View



TIME & LUX CONTROL

TIME

TIME control determines the light-on delay time after the last motion is detected. Different delay time can be set by placing the jumper head at different pin.

A*	B	C	D	E	F
10s	1'	3'	10'	20'	30'

*: Factory set TIME control

LUX

LUX control determines the switching operation of SenSwitch by sensing the ambient light level. Different light level can be set by placing the jumper head at different pin.

A*	B	C	D	E	F
24 Hr	55	40	30	18	9

*: Factory set LUX control

Note: The listed data are typical lux threshold. The smaller value selected, the darker when SenSwitch operates to control the lighting.

SPECIFICATIONS

Detection method Passive Infrared (PIR)
 Operating voltage 100 ~ 250 VAC, 50/60 Hz
 Maximum load 16A @ resistive
 Inrush current 160A @ 16 mSec.
 Detection speed..... 0.1 ~ 3 m/sec.
 Mounting height..... 2.4 - 3.6 m (8 - 12 ft)
 Op. Temperature -20° ~ 50°C (-4° ~ 122°F)
 Dimensions 100 x 100 x 46 mm

WARRANTY

IR-TEC International Ltd. warrants this product to be free of defects in materials or workmanship for a period of five years from date of shipment. There are no obligations or liabilities on the part of IR-TEC International Ltd. for consequential damages arising out or in connection with the use or performance of this product or other indirect damages with respect to loss of property, revenue, or profit, or cost of removal, installation or reinstallation.

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7/14' 058-36027-001

