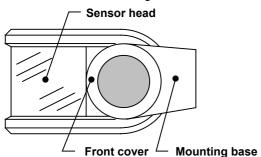
LC-780 series

PIR Light Control SenSwitch

INSTALLATION HINTS

- Avoid aiming the sensor head at direct or reflective sunlight which could cause permanent damage or false triggering.
- Avoid locating the SenSwitch in areas which contain objects likely to produce a rapid temperature change such as heating vents, air conditioners dryer...etc.
- Avoid installing the SenSwitch nearby trees or area where public/traffic may trigger unwanted light.
- Select a location where the direction of movement will be "across" the detection pattern for better sensitivity. To obtain proper detection, mounting height should be 1.8 ~ 2.4 meter for wall mount or 2.7 ~ 5.0 meter for ceiling mount.



CAUTION

- Some local building codes may require installation by a qualified electrician. Consult an electrician about correct wiring.
- The main power must be switched of before installing.

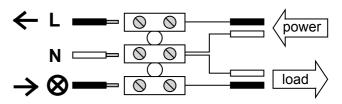
INSTALLATION & WIRING

- Remove front cover and sensor head from the mounting base by releasing two fixing screws..
- 2. Apply the mounting guide sticker at the selected position for drilling mounting holes. Insert dowels and mount the base with mounting screws.
- Lead the wires from power source and light through passage hole on rubber gasket beneath the base. Connect wires to correct terminals according to following instruction for different operation mode.

AIR-TEC

Installation Instructions

LC-780/780HD

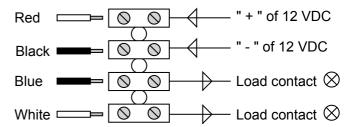


← L : Live wire from power source

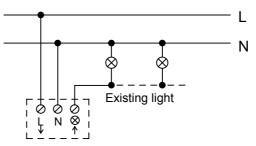
N : Neutral wire

→ ⊗ : Live wire to load (light)

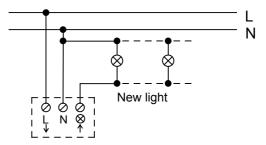
LC-780LV



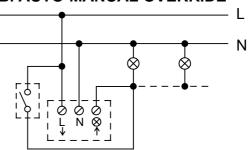
A. AUTO



The above wiring enables SenSwitch to control the light automatically by detecting the motion.



B. AUTO-MANUAL OVERRIDE



The above wiring enables SenSwitch to control the light automatically while the manual switch off. The light will remain on if manual is on, regardless of any motion or light level.

Note: It is vitally important to identify "live" and "neutral" wires of power source and the existing light. Reserve connection may cause malfunction, permanent damage to SenSwitch.

TEST & ADJUSTMENTS

Note: Before testing, ensure the LUX trimmer is set at right end (な) and the TIME trimmer is set at minimum position (—).

- Aim sensor head at desired detection area. Turn on the main power and wait about 30 seconds for sensor to warm up. Light will remain on during warm up period.
- Walk across the detection pattern at normal speed, light will be switched on whenever the motion is detected. Stop and wait for light off, repeat same process until the whole coverage is identified.
- 3. After test completed and detection coverage satisfied adjust LUX and TIME trimmers properly according to individual requirement.

A. Range Adjustment

Maximum range is achieved when the sensor head is in a horizontal position. This range can be reduce by rotating the sensor head downward. The 180° detection pattern can also be reduced by applying supplied masking material on the lens if required. First, refer to the detection pattern diagram to determine the segments to be mask. Cut masking material as determined and apply it to the corresponding area on lens. Range adjustment features eliminate detection in area causing unwanted triggering.

B. TIME Adjustment

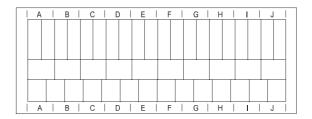
TIME trimmer controls shut-off delay time after the last motion is detected. Delay time ranges from 8 seconds (-) to 8 minutes (+).

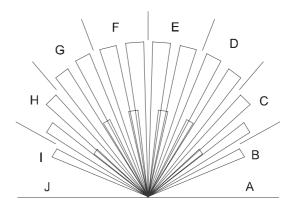
C. LUX Adjustment

LUX trimmer determines the operation of SenSwitch by sensing the ambient light level. It is set originally at right end position (\(\frac{1}{12}\)) for convenience of test in daytime. After test completed, adjust LUX trimmer to left end position (((()) will enable SenSwitch only operate at certain darkness of the ambient environment to avoid unnecessary lighting.

To set individual preferred darkness for SenSwitch to operate, rotate the trimmer clockwise from left end position real slowly when the ambient light level is preferred, stop rotating once the light comes on.

DETECTION PATTERN







SPECIFICATIONS

Detection method...... Passive Infrared (PIR)

Power supply As rated on unit

Maximum loadLC-780 : 5A resistive

LC-780HD: 10A resistive LC-780LV: 10A resistive

Detection angle......180° wide

Detection range 18 meter (60 ft) at 25°C

Mounting height 1.8 ~ 2.4m for wall mount

2.7 ~ 5.0m for ceiling mount

Delay time...... 8 seconds ~ 8 minutes (approx.)

Lux range......2 ~ 2000 lux (approx.)

Adjustable angle 80° vertical

Protection rateIP44

Fixed wireLC-780 : 1.0 ~ 1.5 mm²

LC-780HD: 1.0 ~ 2.5 mm² V1.0

Specifications are subject to change without prior notice.



INTRODUCTION

Thank you for your purchasing IR-TEC Passive Infrared Light Control SenSwitch. It is a motion sensor for automatic light control applications. It applies the advanced infrared sensing technology to control lighting automatically by detecting human body motion. It will turn on the light instantly when motion is detected and turn off automatically after the delay time expires. SenSwitch not only provide convenience and energy saving, but also security as the unexpected, sudden light is a well know, effective means to frighten the unwanted intruder away.