WIDE VIEW OCCUPANCY SENSOR
LOW VOLTAGE

OVERVIEW

The Intelligent Lighting Controls wide view occupancy sensor enables mounting to a wall, corner, junction box, or conduit. This flexibility reduces contractor installation time and provides a secure and clean finished appearance. ILC products utilize the latest passive infrared technology and digital signal processing techniques to provide unmatched detection performance. Additionally these ILC units are available with an integrated microphone to provide overlapping passive acoustic occupancy detection for rooms with obstructions or where occupant motion will be limited.

BASIC OPERATION

Sensors detect movement in the infrared energy that radiates from occupants as they move within the devices field-of-view. Once occupancy is identified the sensor signals a connected power/relay pack to switch on the connected lighting. If equipped with passive dual (PIR/Acoustic) technology, the unit's microphone is then also enabled to further enhance detection while the lights are on. An internal timer is set to keep lights on during brief periods of inactivity, and is reset every time occupancy is signaled by either the passive infrared or acoustic detection technologies.

APPLICATIONS

A single wide view sensor can be used in many rooms, however, multiple low voltage sensors can be easily wired together to provide improved coverage for large or irregular shaped spaces.

- Classrooms
- Large Offices
- Conference Rooms
- Hallways

FEATURES

- Digital Passive Infrared (PIR) Detection
- Passive Acoustic Detection (Optional)
- 120° Coverage Pattern
- Compact Size and Matte Finish
- Five Contractor Friendly Mounting Methods
- Mounting Nipple Attachment with Integrated Hole Saw
- Convenient Test Mode and Adjustable Time Delays

SPECIFICATIONS

ELECTRICAL

OPERATING VOLTAGE
12-24 VAC/VDC

CURRENT DRAW
4mA

OUTPUT
Logic High VDC (Occupied Mode)

RECOMMENDED POWER PACKS
SENSORWORX (e.g., SWX-900)

ENVIRONMENTAL

OPERATING TEMP
-10°F to 122°F (14°C to 50°C)

RELATIVE HUMIDITY
0-95% Non-Condensing, Indoor Use Only

ROHS COMPLIANT

PHYSICAL

SIZE
2.875” H x 2.75” W x 3.25” D
(7.30 x 6.98 x 8.25 cm)

WEIGHT
4.75 oz.

COLOR
White

OPERATION

TIME DELAYS
30 sec. to 30 min.
10 Minute Default

TEST MODE
5 sec.

OTHER LISTINGS

Meets ASHRAE Standard 90.1 & CEC Title 24 Requirements

ORDERING INFO

SAMPLE MODEL # ILC-SWX-421-1

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>DETECTION</th>
<th>COVERAGE</th>
<th>VOLTAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ILC-SWX</td>
<td>Wide View Sensor</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Passive Infrared (PIR)</td>
<td>120° Wide View</td>
<td>Low Voltage</td>
</tr>
<tr>
<td></td>
<td>Passive Dual Technology (PIR/Acoustic)</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>
## Coverage Pattern

**Wide View 120°**
- Small motion (e.g. hand movements) detection up to 40 ft (12.19 m)
- Large motion (e.g. walking) detection up to 70 ft (21.34 m), perfect for hallway applications
- Designed for 8 to 12 ft (2.44 to 3.66 m) high mounting

## Wiring

![Wiring Diagram]

- **ICL Low Voltage Sensor**
- **ICL Power Pack**
- Control Output: Red, White, Blue
- Common: Blue
- 12-24 VDC

## Installation Options

- **Sensor & Mounting Bracket**
  - Chase Nipple
  - Serrated end for cutting through ceiling tile
  - Alternate chase nipple rear position
  - Locking 3-position tilt adjustment
  - Programming button

- **Mounting with Chase Nipple Recommended**
  - Two 1/2” trade size knockouts for use with chase nipple or direct conduit connection
  - Chase nipple & lock nut included for mounting to ceiling tile or 1/2” knockout in junction box

- **Top Installation**
  - Lock nut
  - Mounting bracket

- **Rear Installation**
  - Chase nipple
  - Mounting bracket
  - Lock nut

- **Additional Mounting Methods**
  - Channels for sliding over mounting screws
  - Screw holes for mounting to flat wall
  - Screw holes for mounting in corner

---

Intelligent Lighting Controls | 5229 Edina Industrial Blvd. Edina, MN 55439
952.829.1900 | www.ilc-usa.com
© 2018 Intelligent Lighting Controls, Inc. All rights reserved.