

TECHNICAL DATA

TYPICAL APPLICATIONS

- High Bay Aisle Way
- Inboard/Outboard Switching
- T-5 & T-8 Fluorescent

SENSOR HIGHLIGHTS

- Patented High Bay Sensor Design
- Up to 45 Foot Mounting
- 110 Foot Coverage
- Self-Contained Relay
- No Minimum Load Requirements

FEATURES

- Time Delay: 30 sec. to 20 minutes
Selectable in 2.5 min increments
- Time Delay Separate for Each Pole
- Green LED Indicator

SPECIFICATIONS

- Size: 3 5/8" x 3 5/8" x 1 1/2" Deep
- Sensor Weight: 6 Ounces
- Sensor Color: White
- Mounting: J-Box 1/2 inch knockout
- Relative Humidity: 20 to 90%
non-condensing
- Operating Temp: 14° to 160° F
- Storage Temp: -14° to 160° F
- Load Rating: Each Pole
- 120 VAC @ 800 W
- 277 VAC @ 1200 W
- 347 VAC @ 1500 W
- 1/4 HP Motor Load
- Frequency: 60 Hz
- UL and CUL Listed
- 5 Year Warranty
- Made in U.S.A.

LOW TEMP/HI HUMIDITY(-LT)

- Conformally Coated PCB
- Operates down to -40° F
- Corrosion resistant from moisture

HMRB-10-2P SERIES

Programmable Edition!



Line Voltage High Bay Aisle Way control has been made easier with the New 2 Pole *HMRB-10-2P* High Mount Sensor. When mounting 30 to 45 feet high, the *HMRB-10-2P* easily installs to a standard junction box using it's half inch molded chase nipple. Using an internal line voltage relay, the *HMRB-10-2P* can control 2 poles on fluorescent fixtures directly without the need of a Power Pack. For freezer applications, use the *HMRB-10-2P-LT* or *HMRB-10-2P-SH-LT* for cold temperature and corrosion resistant characteristics. If individual fixture control is desired, refer to CMR-6 & CMRB-6 Series sensors.

SENSOR OPERATIONS

The *HMRB-10-2P* detects changes in the Infrared energy given off by occupants as they move within the sensor's field-of-view. The Sensor operates on 120/277 or 347 VAC. An internal power relay switches the incoming voltage to power "On" HID Bi-Level lamps to "High", or directly powers fluorescent lamps to "On". An internal timer keeps the relay closed during periods of no activity. Once the time delay expires, the relay opens and the HID lamps go to a "Low" state, or if fluorescent, the lamps turn "Off".

FLUORESCENT FIXTURES

The *HMRB-10-2P* sensor does not include the Start to High timer, or the 100 Hour Burn-in since these features are used for HID only.

PASSIVE INFRARED DETECTION TECHNOLOGY

The *HMRB-10-2P* has 4 pairs of PIR collector beams evenly spaced. Motions are detected as occupants cross into or out of these beams. PIR detects motions across the beams much better than motions directly into the beams. Because of this, care must be taken to make sure the sensor is not viewing out the end of the aisles where traffic provides strong detection signals as opposed to occupants entering directly at the sensor. **Providing sensors at both ends and ensuring the opposite sensors do not view out will provide proper performance.** For aisles longer than 200 feet, multiple sensors must be located at appropriate distances in the center area. For example, a 270 foot aisle, locate one *HMRB-10* at each end, and one CMRB-50 in the center.

Part Numbering System: HMRB-10-2P[VOLTAGE]-[TEMP/HUMIDITY]

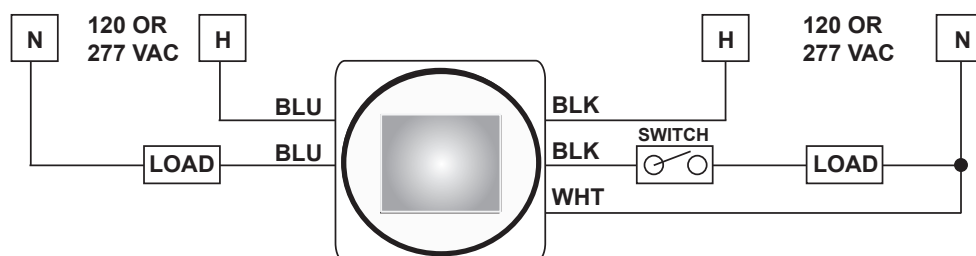
MODEL#	VOLTAGE	LO TEMP/HI HUMIDITY
HMRB-10-2P	Blank = 120-277 VAC -3 = 347 VAC	Blank = 14° to 160° F -LT = -40° to 160° F

TYPICAL WIRING DIAGRAM (DO NOT WIRE HOT)

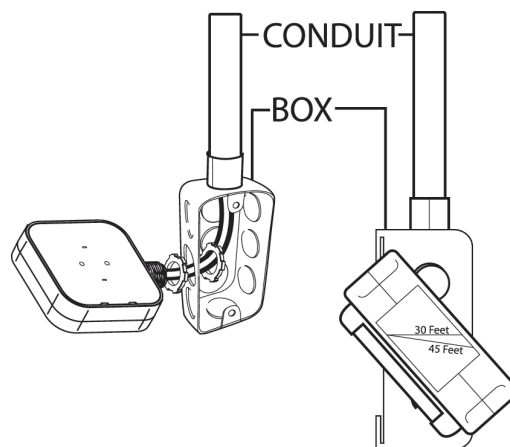
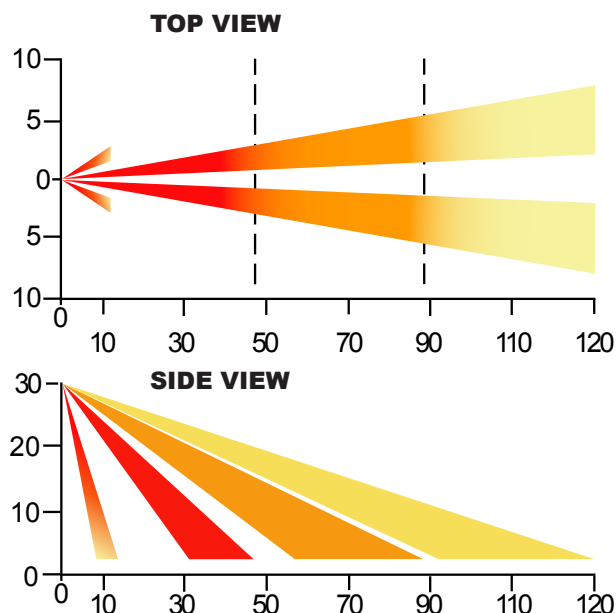
The sensor may be wired before or after local toggle switches. The Black wires connect to the first feed, and load respectively, and the Blue wires connect to the second. If only one feed, connect one of the Black and one of the Blue wires to the feed, and the respective Black and Blue wires to the loads. **Note:** Black wires are replaced with Red wires for 347 VAC (One Phase Only).

INITIAL POWER UP

When power is applied to the sensor, the relay is designed to be in a latched closed position, and the lights should come "On". After a 1-3 minute warm-up period, the sensor becomes functional and begins to "time out". **Lights Do Not Immediately Turn "On" (Initial Installation Only):** If the latching relay is in the open position, the lights will not immediately turn "On". However, within the 1-3 minute warm-up, the sensor will correct itself and close the relay.

TYPICAL WIRING DIAGRAM - DO NOT WIRE HOT

MOUNTING CONSIDERATIONS

The HMRB-10-2P Sensor mounted at a 30 foot height and back out of the aisle way 10 feet, will cover approximately 110 linear feet. The sensor must be mounted in such a way as to be tilted forward approximately 40 degrees at 30 feet to achieve maximum coverage. At lower heights, or shorter desired coverage, the sensor tilt angle should be increased. Simply follow the guides on the side of the unit to set ideal tilt angles.



WARRANTY: Sensor Switch, Inc. warrants these products to be free of defects in manufacture and workmanship for a period of sixty months. Sensor Switch, Inc., upon prompt notice of such defect will, at its option, provide a Returned Material Authorization number and a replacement product.

LIMITATIONS AND EXCLUSIONS: This Warranty is in full lieu of all other representation and expressed and implied warranties (including the implied warranties of merchantability and fitness for use) and under no circumstances shall Sensor Switch, Inc. be liable for any incidental or consequential property damages or losses.

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