



Description

For use as a proximity detection sensor to transmit the occupancy of a location. It includes a pair of AAA batteries and a wireless transmitter

Theory of Operation

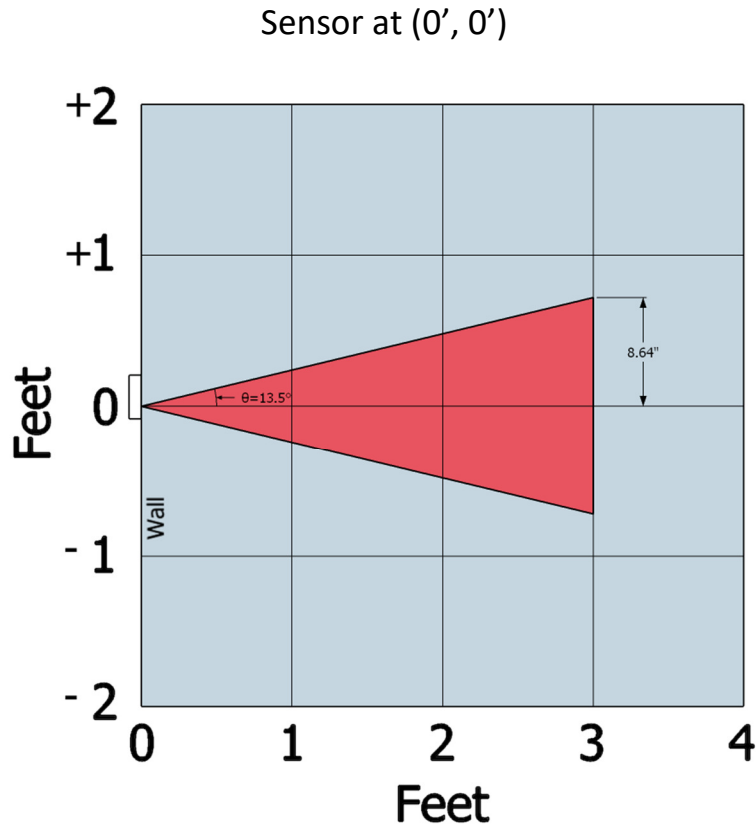
The Proximity Detection Sensor has a binary output, either occupied or unoccupied. The distinction between the two states is whether or not a person is within the configured range of the sensor. The Proximity Detection Sensor provides the signal to the owner's monitoring system to indicate occupancy/vacancy. The sensor is closed in the occupied state and open in the vacant state. The output from the sensor can be delayed from as little as 1 second. The range from the sensor can be as short as 1 foot.

Installation

1. Mount the Proximity Detection Sensor to a wall or other sturdy surface using the included contact strip. The sensor should ideally be mounted at chest height for detecting a standing person, and seated shoulder height for detecting a sitting person.
2. Use the Code on the box to pair to your system.

Low Battery

A low battery signal is sent when the AAA batteries drop below 2.3 V and need to be replaced.

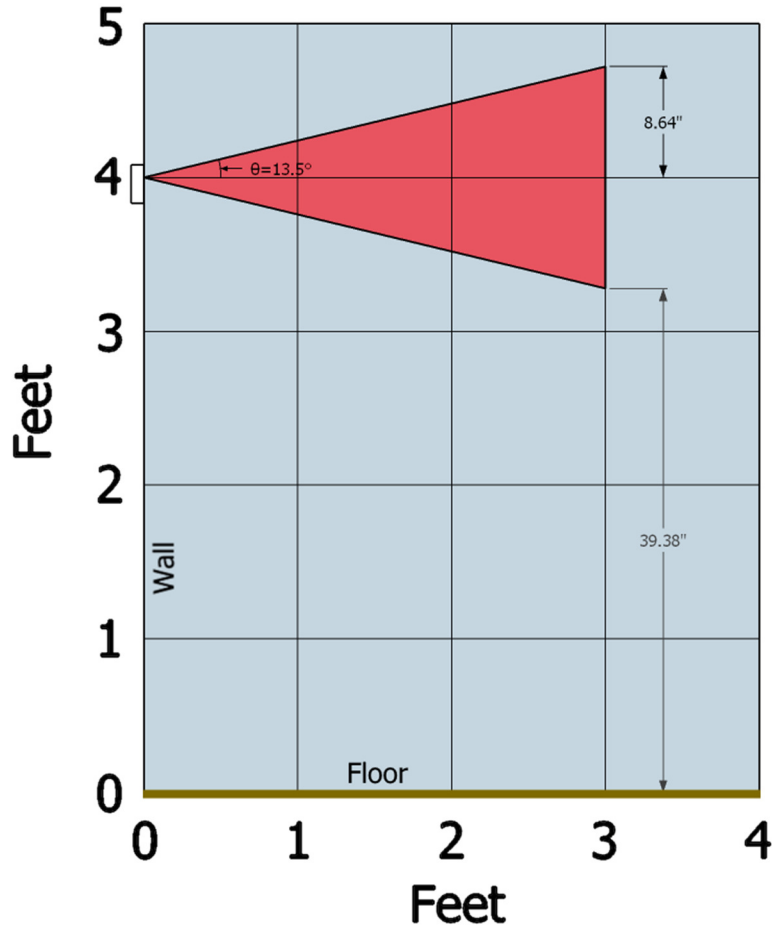


Note: The red region represents the sensor's theoretical detection area, but its effective detection area is narrower. A target must have a sufficient amount of its surface area within this region to reflect enough IR energy back to the sensor. An 8" diameter white paper disc was detectable when placed 3 feet away from the sensor, centered 8" laterally from the centerline of the sensor's field of view (3', +/- 0.75').

Sensor Field of View

Side View

Sensor at (0', 4')



Note: The sensor’s field of view is a cone projected out from the sensor element. At 3 feet from the sensor the cone cross section has a radius of about 8.5”. When installing the PDS, make sure view cone is clear of any objects to prevent false positives.