



# Sierra Sensor

Bridging powerful functionality with refined, intuitive design. Multi-technology presence detection with PIR, audio sensing, and integrated photocell in a single low-profile ceiling unit.

SKU  
CYN-SEN-S1

CATEGORY  
Occ/Vac Sensor

CONNECTIVITY  
Cat5e / RJ-45

REVISION  
Rev 1.0 — Mar 2026

# Sierra Sensor

## INTELLIGENT OCCUPANCY & VACANCY DETECTION

The Canyon Sierra delivers multi-technology presence detection through PIR motion sensing, audio detection, and an integrated photocell — all in a single low-profile ceiling unit. Connected via standard Cat5e cable to the Canyon PowerPack, the sensor enables seamless occupancy-based control with ambient light monitoring for daylight harvesting. Full 360° rotation for precise aiming after installation.

### DETECTION

PIR  
Audio  
Photocell

### COVERAGE

360° FOV  
Up to 1,000 ft<sup>2</sup>

### CONNECTION

Cat5e

### MODES

Occupancy  
Vacancy

### ADJUSTABILITY

360° Rotation  
Full Sensor  
Motion

### POWER

Via Cat5e  
from PowerPack

### PHOTOCELL

Integrated  
Daylight  
Harvesting

### MOUNTING

Ceiling  
Low Profile

### COMPATIBLE WITH

Canyon  
PowerPack



360° ROTATION — CEILING MOUNT

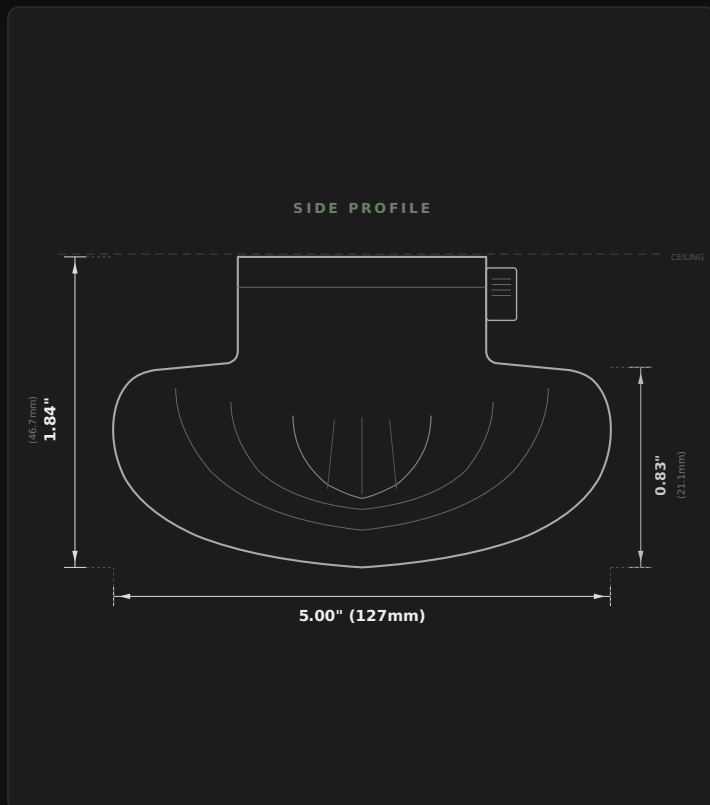
Full sensor rotation for precise aiming and commissioning after installation



PERSPECTIVE — LOW PROFILE DESIGN

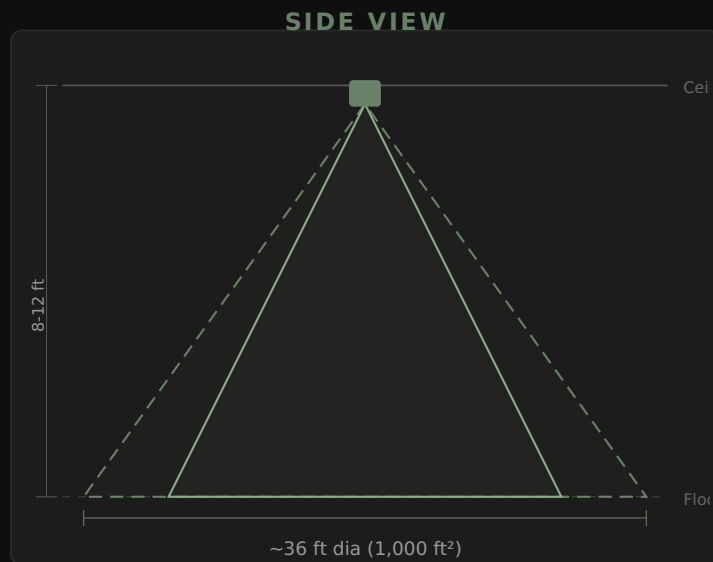
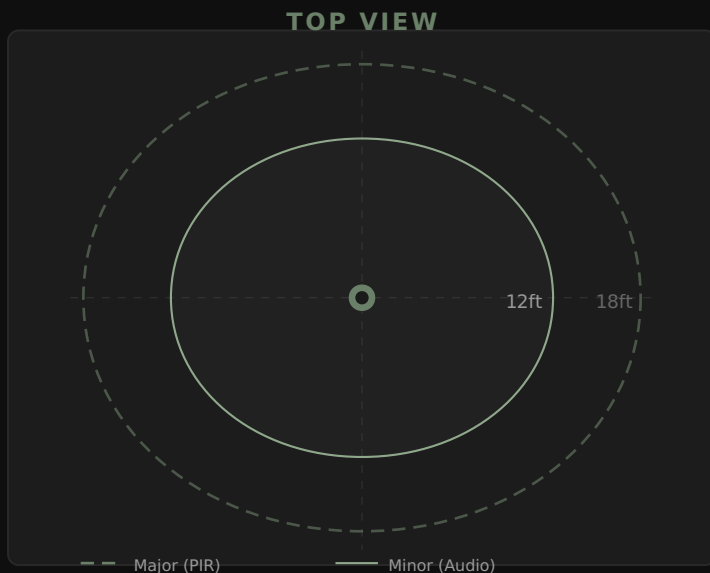
## Dimensions

### MECHANICAL DRAWING



## Field of View

### COVERAGE PATTERN



#### RJ45 PINOUT — T568B

	CAN_0_N	Pin 1	Wht/Org
	CAN_0_P	Pin 2	Orange
	GND	Pin 3	Wht/Grn
	PWR_24V	Pin 4	Blue
	GND	Pin 5	Wht/Blu
	PWR_24V	Pin 6	Green
	GND	Pin 7	Wht/Brn
	PWR_24V	Pin 8	Brown

#### KEY FEATURES

PIR MOTION

AUDIO DETECT

PHOTOCELL

CAT5E

POWERPACK

LOW PROFILE CEILING

# Specifications

## ELECTRICAL & ENVIRONMENTAL

PARAMETER	SPECIFICATION
Input Voltage	24 VDC (via PowerPack over Cat5e)
Power Consumption	< 2W typical
Detection — PIR	Passive Infrared, 360° field of view
Detection — Audio	Integrated audio presence sensing
Detection — Photocell	Integrated ambient light sensor, daylight harvesting capable
Coverage Area	Up to 1,000 ft <sup>2</sup> (ceiling mount, 8-12 ft height)
Modes	Occupancy (auto-ON / auto-OFF), Vacancy (manual-ON / auto-OFF)
Connection	RJ45 via Cat5e (T568B) to Canyon PowerPack
Communication	CAN Bus (via Cat5e conductors)
Mounting	Ceiling, standard 4" octagon / 4" square electrical box
Operating Temperature	32 °F to 104 °F (0 °C to 40 °C)
Storage Temperature	-15 °F to 160 °F (-26 °C to 71 °C)
Relative Humidity	0-90% non-condensing
Adjustability	360° sensor body rotation for aiming after installation
Dimensions	5.00" dia x 1.84" H (127 mm x 46.7 mm)
Finish	White, low-profile, paintable cover

## ENERGY CODE COMPLIANCE

ASHRAE 90.1

IECC

TITLE 24, PART 6

OCCUPANCY / VACANCY SENSING

DAYLIGHT HARVESTING

PLUG LOAD / RECEPTACLE CONTROL

The Canyon Sierra can be used to comply with IECC, ASHRAE 90.1, and Title 24, Part 6 requirements for occupancy/vacancy sensing, daylight harvesting, and plug load or receptacle control in commercial and non-residential applications.

## LISTINGS & CERTIFICATIONS

Listings	UL Listed, cUL Listed
Compliance	RoHS Compliant, FCC Part 15
Warranty	5-Year Limited Warranty

## DISCLAIMER

© 2026 Canyon Controls. All rights reserved. Subject to change without notice. Canyon Controls warrants to the original purchaser that this product, at the time of its sale by Canyon Controls, is free of defects in materials and workmanship under normal and proper use for five years from the purchase date. Canyon Controls' only obligation is to correct such defects by repair or replacement, at its option. This warranty does not cover damage resulting from accident, misuse, or unauthorized modification. Canyon Controls is not liable for incidental, indirect, special, or consequential damages, including without limitation, damage to or loss of use of any equipment, lost sales or profits, or delay or failure to perform this warranty obligation.