



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, flush-mount ceiling unit.

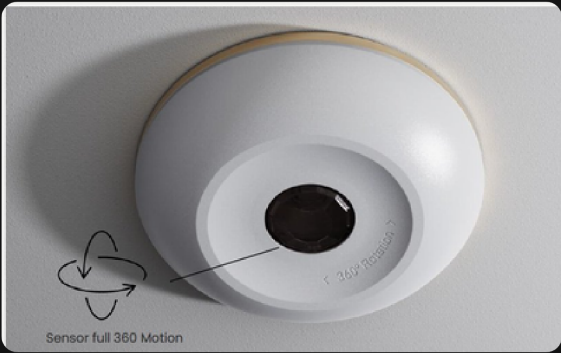
SKU	CATEGORY	CONNECTIVITY	REVISION
CYN-SEN-S1	Occ/Vac Sensor	Cat5e / RJ-45	Rev 1.2 — Sep 2026

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, flush-mount ceiling unit. Connected via standard Cat5e cable to the Olympus Room Controller, the sensor enables seamless occupancy-based control with ambient light monitoring for daylight harvesting. Full 360° rotation for precise aiming after installation.

DETECTION	COVERAGE	CONNECTION
PIR Audio Photocell	360° FOV Up to 1,000 ft²	Cat5e
MODES	ADJUSTABILITY	POWER
Occupancy Vacancy	360° Rotation Full Sensor Motion	Via Cat5e from Olympus
PHOTOCELL	MOUNTING	COMPATIBLE WITH
Integrated Daylight Harvesting	Ceiling Low Profile	Canyon Olympus



360° ROTATION — CEILING MOUNT

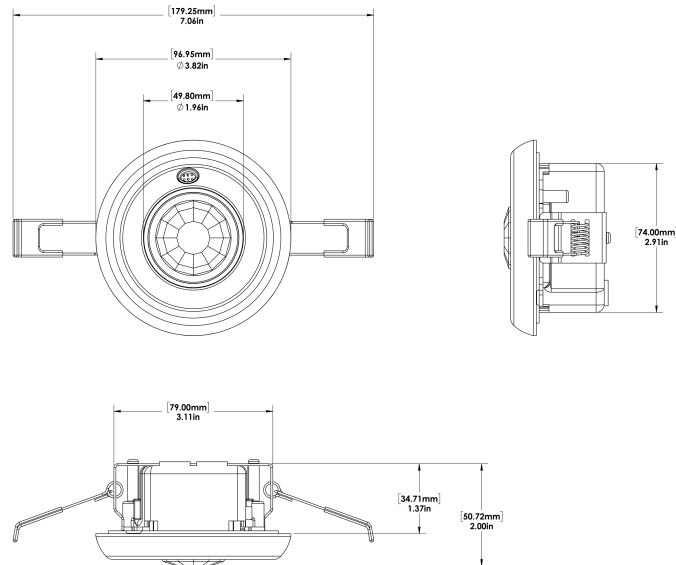
Full sensor rotation for precise aiming and
commissioning after installation



PERSPECTIVE — LOW PROFILE DESIGN

Dimensions

MECHANICAL DRAWING

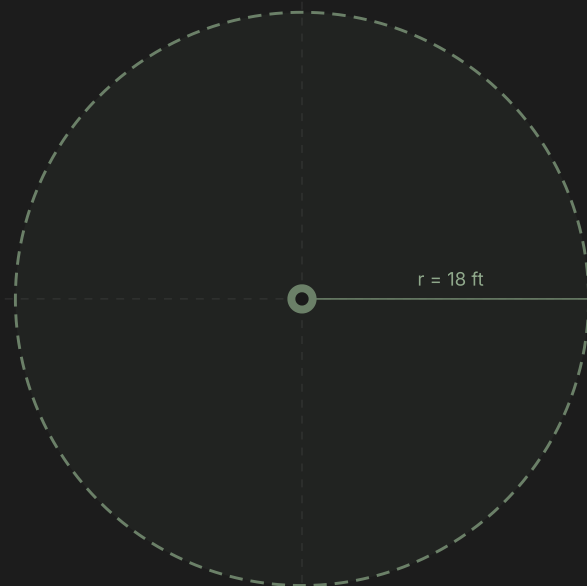


FLUSH-MOUNT · OT-SENSOR-ASSEMBLY-FLUSHMOUNT · SHEET 2 OF 5 — DIMENSIONS IN MM [IN]

Field of View

COVERAGE PATTERN

TOP VIEW



360° PIR · 36 ft dia (1,000 ft²) at 9 ft mounting height

SIDE VIEW



126.9° included angle · drawn to scale · 8-12 ft mounting range

RJ45 PINOUT — T568B

	CAN_O_P	Pin 1	Wht/Org
	CAN_O_N	Pin 2	Orange
	CAN_O_P	Pin 3	Wht/Grn
	PWR_12V	Pin 4	Blue
	GND	Pin 5	Wht/Blu
	CAN_O_N	Pin 6	Green
	GND	Pin 7	Wht/Brn

KEY FEATURES

- PIR MOTION
- AUDIO DETECT
- PHOTOCELL
- CAT5E
- OLYMPUS
- LOW PROFILE CEILING



Specifications

ELECTRICAL & ENVIRONMENTAL

PARAMETER	SPECIFICATION
Input Voltage	12 VDC Class 2 (SELV) (via Olympus Room Controller 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 ft² (ceiling mount, 8–12 ft height)
Modes	Occupancy (auto-ON / auto-OFF), Vacancy (manual-ON / auto-OFF)
Connection	RJ45 via Cat5e (T568B) to Olympus Room Controller
Communication	CAN Bus (via Cat5e conductors)
Mounting	Flush / recessed ceiling mount with integrated spring clips (drywall or ceiling-tile cutout). Junction-box mounting via accessory bracket.
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
Trim Diameter	3.82" (96.95 mm) visible ceiling ring; 1.96" (49.80 mm) lens aperture
Recessed Depth	2.91" (74.0 mm) overall height; 2.00" (50.7 mm) above ceiling
Clip Span	7.06" (179.25 mm) with spring clips extended; body 3.11" (79.0 mm) dia
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	ETL Listing (Intertek), cETLus — certification in progress — ANSI/UL 916 · CSA C22.2 No. 205
Compliance	RoHS Compliant. FCC Part 15 testing not yet completed
Warranty	5-Year Limited Warranty

DISCLAIMER

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