



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
CYN-SEN-S1

CATEGORY
Occ/Vac Sensor

CONNECTIVITY
Cat5e / RJ-45

REVISION
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. Gimballed oculus: the lens tilts and the body rotates a full 360° for precise aiming after installation.

DETECTION

PIR
Audio
Photocell

COVERAGE

360° FOV
Up to 1,000 ft²

CONNECTION

Cat5e

MODES

Occupancy
Vacancy

ADJUSTABILITY

Tilting Oculus
360° Rotation

POWER

Via Cat5e
from Olympus

PHOTOCELL

Integrated
Daylight
Harvesting

MOUNTING

Ceiling
Low Profile

COMPATIBLE WITH

Canyon
Olympus



ADJUSTABLE OCULUS — CEILING MOUNT

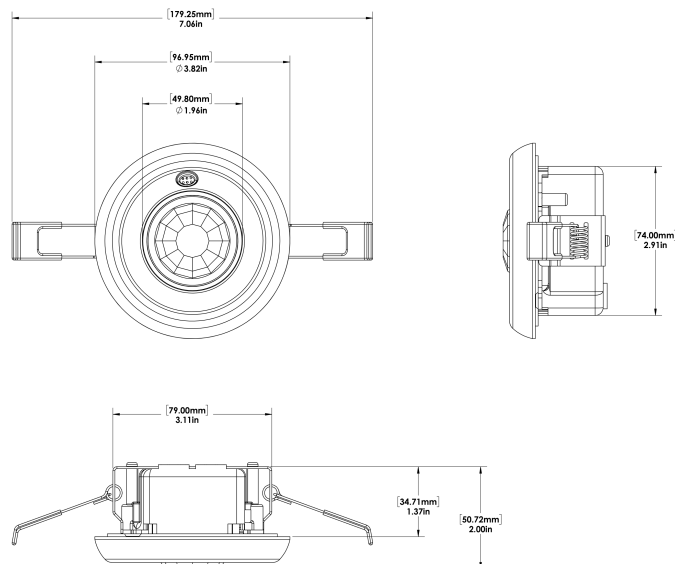
The lens tilts in its gimbal and the body rotates 360°, so the field is aimed at the occupied area after the trim is fitted



PERSPECTIVE — LOW PROFILE DESIGN

Dimensions

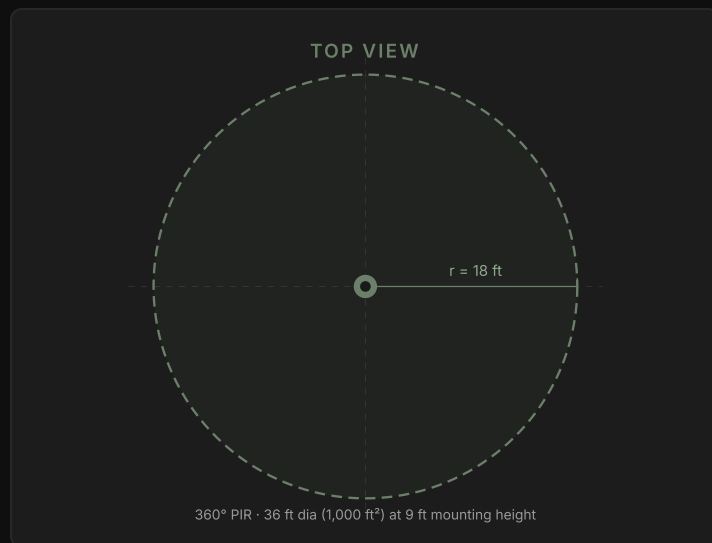
MECHANICAL DRAWING



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

Field of View

COVERAGE PATTERN



RJ45 PINOUT — T568B

	CAN_0_P	Pin 1	Wht/Org
	CAN_0_N	Pin 2	Orange
	CAN_0_P	Pin 3	Wht/Grn
	PWR_12V	Pin 4	Blue
	GND	Pin 5	Wht/Blu
	CAN_0_N	Pin 6	Green
	GND	Pin 7	Wht/Brn
	PWR_12V	Pin 8	Brown

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 ft ² (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	Tilting lens (gimballed oculus) plus 360° 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 or Black trim ring, low-profile

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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