

SX-OCU-ETH

SMART OCCUPANCY SENSOR

mmWave + PIR | PoE Ethernet | Smart Automation



HIGH POWER
POE 802.3af



ETHERNET
POE SUPPORT



DUAL SENSING
mmWave + PIR



SMART AUTOMATION
Lighting, HVAC & More



PRODUCT DESCRIPTION

The SX-OCU-ETH is a smart occupancy sensor that combines mmWave radar and PIR motion detection to accurately sense human presence in indoor spaces. Ideal for offices, meeting rooms, and commercial buildings, it helps automate lighting, HVAC, and other systems based on real-time occupancy.

With Power over Ethernet (PoE) support, the sensor uses a single Ethernet cable for both power and data—making installation easy and cost-effective.



KEY FEATURES

- Dual sensing with mmWave + PIR for accurate detection
- PoE support for simple setup with one cable
- Helps reduce energy usage by automating systems only when rooms are occupied
- Perfect for smart buildings and automation projects
- Adjustable occupancy timeout (10 Seconds – 5 Minutes)
- Real-time web interface and UDP broadcast support
- Supports static and dynamic human detection
- Optional GPIO-controlled relay output
- Compact form factor for ceiling or wall mounting
- Adjustable static & moving presence via Web interface
- Easy interface with any 3rd party processor.
- Presence detection Indication LED with customizable color & ethernet connection Status LED



APPLICATIONS

- Smart lighting automation
- Office and building energy management
- Restroom occupancy monitoring
- Security and intrusion detection
- Home automation systems



COMMANDS LIST

Status	Send Commands	Receive Commands
Room Occupied	NILL	FE 03 E1 01 FD
Room Vacant	NILL	FE 03 E1 00 FD
Query Room	FE 03 F1 00 00 00 00 FD	FE 03 F1 01 FD - Occupied FE 03 F1 00 FD - Vacant



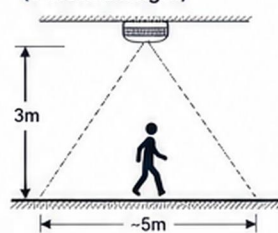
TECHNICAL SPECIFICATIONS

Power Supply	PoE
Current Consumption	~500–600 mA typical
Moving Presence Detection Range	Up to 5meters (configurable)
Static Presence Detection Range	Up to 4 meters (configurable)
Detection Angle	Coverage up to ±60 degrees
Communication	Ethernet with PoE support
Protocol Support	TCP/IP, HTTP (Web UI)
TCP/IP Port	5050
Presence Detection LED	Green (Default) (configurable)
Mounting	Wall or ceiling mount (screw holes)
Status Indicators	Power, Ethernet link, Detection
Dimensions	100*100*42mm
Operating Temperature	-10°C to +50°C

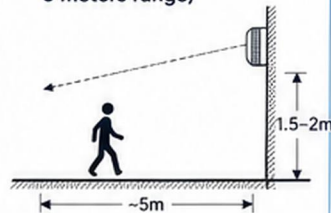


INSTALLATION DIAGRAMS

1. Ceiling Mounting (3 meters height)



2. Wall Mounting (1.5–2 meters height, 5 meters range)



DEVICE CONFIGURATION GUIDE

1. **Home Page:** Displays the status of the room as either vacant or occupied.
2. **Device Info Page:** Displays the actual parameters of the device.
3. **Sensor Parameters Configuration Page:** Allows adjustment of sensor settings for Static Presence, Moving Presence Distance, and Timeout after the room becomes vacant. For example: after the room is vacated, the relay will remain ON until the timeout period has elapsed. Default timeout: 10 seconds.
4. **DHCP/Static IP & LED Customization Page:** Allows setting the device IP address to either DHCP or Static. When the room is occupied, an LED indication is provided. The color of the LED can be customized via the Web UI.
5. **Device Parameters Configuration Page:** The device name, Device ID, and password can be changed via the Web UI. Default credentials:
Username: admin Password: Admin



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