Product specifications

SENSOR 1 / SENSOR 2 MLTH

Motion, light, temperature and humidity sensing

PRODUCT OVERVIEW

Sensor 1 MLTH is a stand-alone, mesh-enabled sensor for occupancy/vacancy, ambient light, temperature, and humidity data.

Sensor 2 MLTH connects to the Luum ALC via RJ12 and leverages onboard 6LoWireless communication to transmit sensing data.

Both sensors are designed for standard-height ceiling applications and support real-time commissioning and dashboard reporting.

CONFIGURATIONS

SENSOR-1-MLTH: Stand-alone wireless sensor.

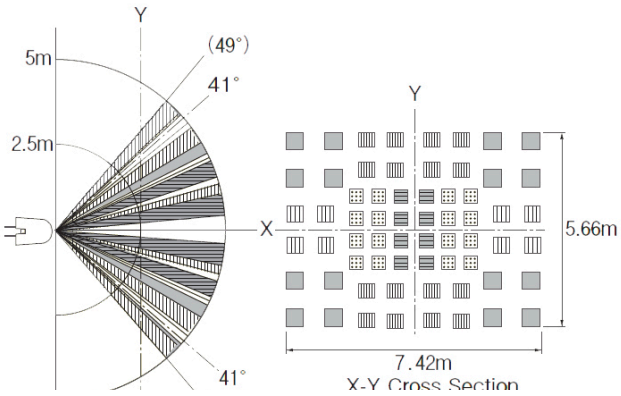
SENSOR-2-MLTH: Luum ALC connected RJ12 sensor.

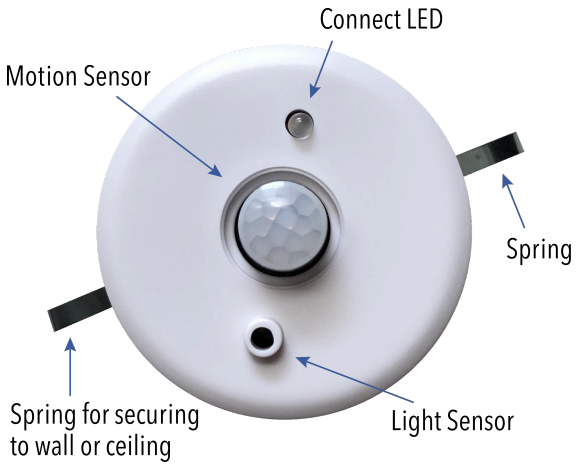
SENSOR-1-DIM: Includes 0-10V control wires for for direct fixture control.

FEATURES

Sensor functionality	Motion (occupancy/vacancy), ambient light, temperature and humidity sensing
	Sensor blinders included to optimize detection regions
	Real-time data for control and energy dashboard
Easy, plug-and-play installation	Sensor 1 requires low-voltage power connections
	Sensor 2 includes RJ12 cable and mounting bracket for Luum ALC connection
Simple startup	Amatis app commissions all devices on the mesh network
	Unique IPv6 address
Code compliance	Complies with ASHRAE 90.1-2016 and CA Title 24 requirements
Warranty	5-year limited warranty with uninterrupted connection of the Amatis Border Router device from a network

COVERAGE





Note: Actual performance may vary as a result of end-user environment and application. Specifications subject to change without notice.

*Based on clear line of sight. Interior obstructions may limit range.

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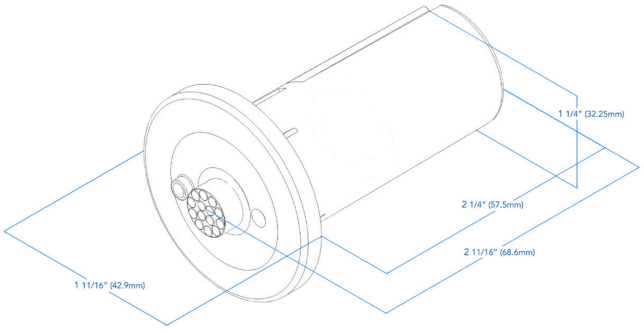
TECHNICAL SPECIFICATIONS

Category	Specification	SENSOR-1-MLTH	SENSOR-2-MLTH	SENSOR-1-DIM
COMMUNICATION	Wireless transmit range	Up to 200 feet line of sight to nearest mesh connected device	N/A	Up to 200 feet line of sight to nearest mesh connected device
	Communication	Embedded 6LoWireless	Connects to the Amatis Advanced Load Controller to communicate with the 6LoWireless mesh network	Embedded 6LoWireless
	Encryption	AES 128-bit		
DETECTION	Detects	Motion, Ambient Light, Temperature and Humidity		
	Detection	~5ft radius @ 9ft mounting; ~7ft radius @ 12ft mounting		
	Motion sensor	Passive Infrared (PIR) sensor detects motion, indicated via orange LED on device		
ELECTRICAL	Input voltage	9-30VDC		
	Power Use	Less than 1W nominal power usage		
	Connections	9-30VDC low-voltage polarity insensitive power wires	RJ12 port	Violet (+10V dimming wire), gray (0V) control wires and single red low-voltage power wire
MECHANICAL	Dimensions	2 1/4 in (57.5 mm) w; 1 11/16 in (42.9 mm) h; 1 1/4 in (32.35 mm) d	1 7/16 in (36.4 mm) h; 1 in (25.4 mm) d	2 1/4 in (57.5 mm) w; 1 11/16 in (42.9 mm) h; 1 1/4 in (32.35 mm) d
	Mounting	Inserted into 1" hole in ceiling tile; 3/4" for sensor2; mounting bracket options available		
	Color	Matte White Finish		
	Outputs	N/A		0-10V control wires for direct fixture control
ENVIRONMENTAL	Environment	Indoor Dry or Damp locations or covered outdoor locations; -20 F to +100 F (-28 C to 37 C)		
	Temp/Humid accuracy	±0.9 F from 59 F to 104 F (±0.5 C from 15 C to 40 C); ± 3.5% rH from 20% to 80% rH		
GENERAL	Warranty	5-year limited warranty with continuous cloud connection		
	Compliance note	Device contributes to Amatis system compliance with ASHRAE 90.1-2016 and CA Title 24 reqirements		

Note: Actual performance may vary as a result of end-user environment and application.

LED INDICATOR REFERENCE

Green LED	Powered, no motion detected
Orange LED	Motion detected
No LED	No power
Only occasional orange LED	Device is powered, no network connection



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