Thermal Presence Sensor

Advanced Thermal Presence Detection

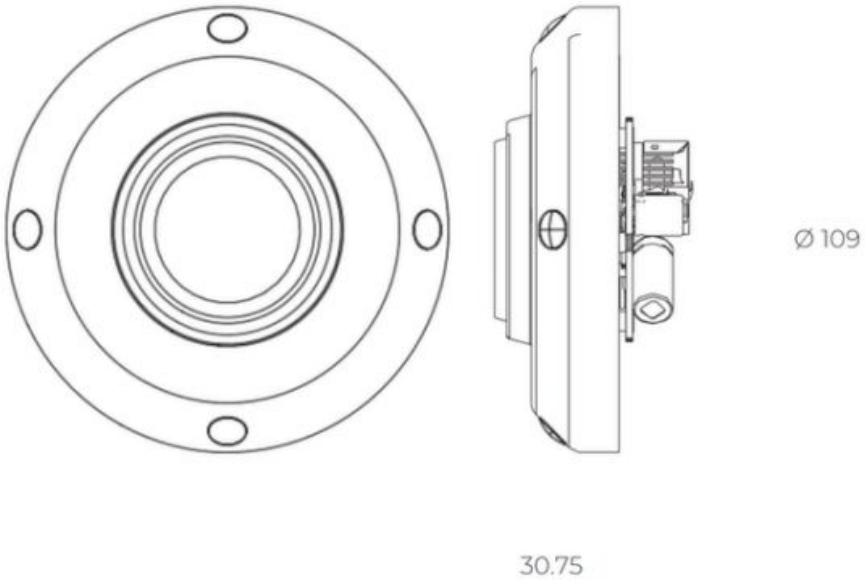
LX-TPS01



Experience advanced presence detection with the Luxio Controls Thermal Presence Sensor. Designed for intelligent hospitality environments, it combines thermal and motion sensing technology to provide accurate and discreet occupancy detection, enabling efficient lighting, HVAC, and energy management while enhancing guest comfort.

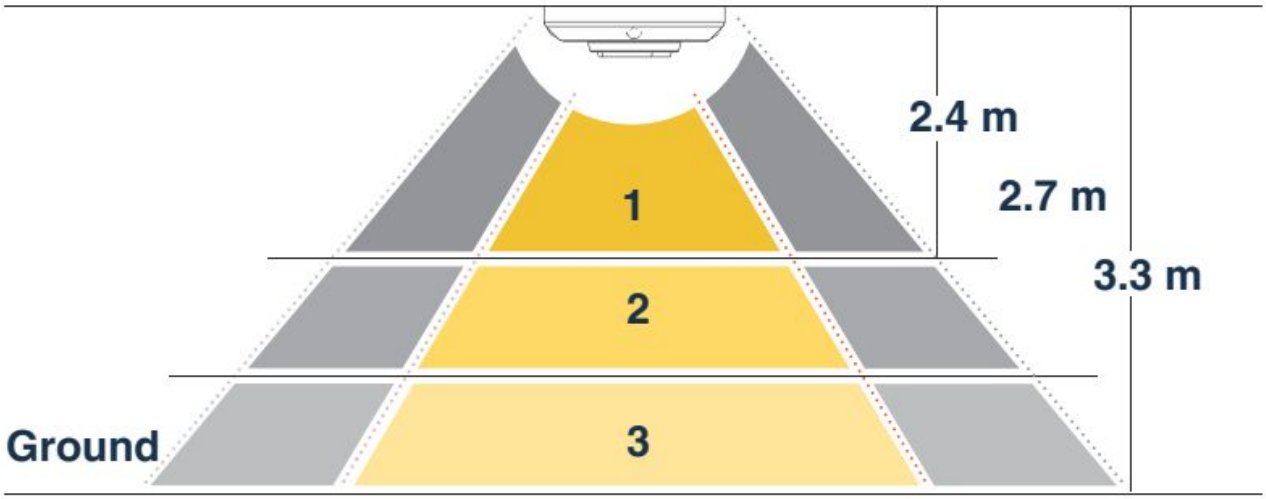
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Dimensions
(in mm)



Product Detection Range Diagram

Ceiling

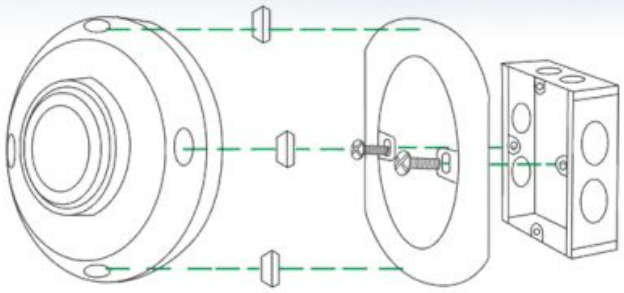


Sensing diameter:

1.	2.	3.
Thermal trace: 3.12 m	Thermal trace: 3.46 m	Thermal trace: 4.21 m
Motion: 8 m	Motion: 8.56 m	Motion: 10.4 m

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Ceiling Mounting



The device is mounted to a metal frame secured to the ceiling, using magnets to hold the sensor in place. It connects to the room controller via an RS485 cable.

Place of installation Place the sensor on the ceiling over the bed center.

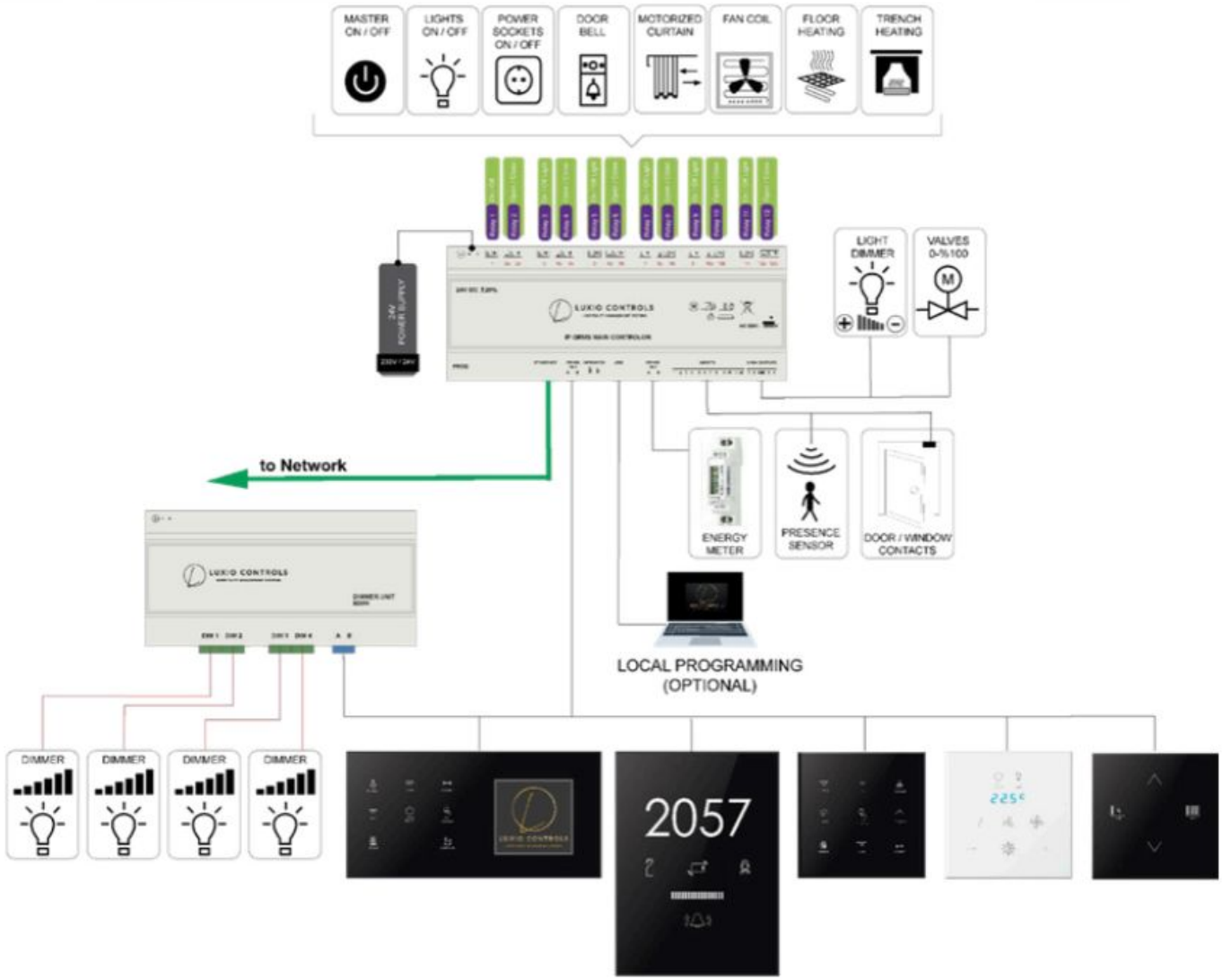
Avoid installing in these locations

- Direct sunlight on the sensor lens (e.g., near windows)
- Close to heat or cooling sources (e.g., heaters, coolers)
- Near reflective surfaces (e.g., mirrors)
- Areas with strong air currents (e.g., vents, open windows/doors)
- Near metal objects that could interfere with radio signals
- Outdoors (designed for indoor use only)
- Rooms with extreme temperature or humidity

Technical Specifications

Parameter	Value
Product Name	Thermal Presence Sensor
Power Supply	VDC 24V ±20%, ≤1W
Physical Interface	RS-485
Communication Protocol	Modbus
Max Cable Length	100 m
Mounting	Magnetic
Warm Up Time	<30 seconds
Storage Temperature	-10...+60 °C
Operating Temperature Range	0 °C - +45 °C
Operating Humidity Range	30 ~ 85% RH non-condensing
Dimensions (Ø x D)	Ø109 x 30,75 mm
Weight	200 g
Case Material	ABS
Standard Color	White
Protection Level	IP32

Wiring Diagram and Functions



About Luxio Controls

Luxiospecializes in hotel automation solutions for both the retrofit and new-build markets. We use state-of-the-art technologies to increase the energy efficiency of hotel rooms and the pro- ductivity of hotel staff by streamlining operating processes. Our products have been developed for the hotel industry.

Luxio typically saves hoteliers an average of up to 40% in energy costs and 30% on staff count per property. Luxio is known to increase guest satisfaction, which is positively reflected in online guest reviews. According to a US Environmental Protection Agency calculation, installing one Luxio Room Kit is equal to planting 535 trees.

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