

*PATENT PENDING

M9-ML2

Motion/ Light Sensor



Proudly Made
In America

Description

The Magnum First's Motion and Lux sensor (M9-ML2) is a wireless, self powered, passive in-fared sensor that ensures reliable detection of occupant presence. The M9-ML2 is ideally suited for occupancy based lighting control and also provides for indoor daylight harvesting functionality, with a light range of 0-1020lx. When paired with a relay (M9-USR-L3), the sensor creates an out of the box, cost effective, lighting control system. When combined with a gateway (M9-EBox), the M9-ML2 can be integrated into an existing BACnet-compatible building automation system.

Operation

Built in solar cells draw and store energy from available ambient light to power the device and keep it operational during periods of darkness. An optional battery back up is available for locations with low or no ambient light. The M9-ML2 must be paired with a receiver (refer to Compatible Devices section). The device pairs manually to compatible devices by pressing the LRN button.

The sensor can be mounted using screws or simply placed in selected location with double stick tape. It is recommended that the pairing of this device be done prior to installing the ceiling sensor.

Compatible Devices

- M9-TS1 (24 Intelligent Thermostat With 4.3"LCD)
- M9-USR-L3 (Single Channel Lighting Control Module)
- M9-EBox (BACnet IP Gateway)
- M9-ILS2 (Integrated Light Switch)
- M9-ESRP (Wireless Single Rocker Switch)
- M9-EDRP (Wireless Double Rocker Switch)

Applications

- Hotels & Resorts
- Colleges & Universities
- New Construction
- Executive Offices
- Daylight Harvesting
- Private Offices
- Retrofits
- Conference Rooms
- Lighted Hallways
- Classrooms

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Technical Specifications

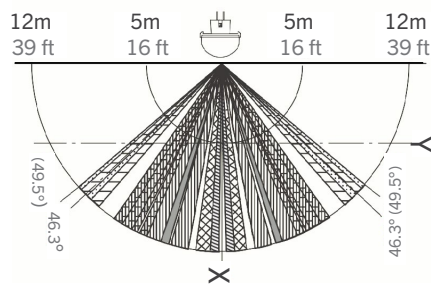
Part Numbers (Frequency Dependand)	M9-ML2 (902 MHz - North America) M8-ML2 (868 MHz - Europe and China) MJ-ML2 (928 MHz - Japan)
Available Profiles	A5-07-03 (Default) - Occ, Supply Voltage, Illumination 0-1000lx F6-02-01 - Rocker On/Off, Occ Only A5-06-02 - Illumination 0-1020lx only A5-07-01 - Occ, Supply Voltage A5-07-02 - Occ, Supply Voltage A5-08-01 - Occ, Supply Voltage, Illumination 0-510lx A5-08-02 - Occ, Supply Voltage, Illumination 0-1020lx A5-08-03 - Occ, Supply Voltage, Illumination 0-1530lx
Maintain Charge Time	3 hours per 24 hours @ 20FC (200 Lux)
Transmission Range	Standard: Approximately 100 ft (30m) Long Range: Approximately 1600 ft (487 m) LINE OF SIGHT
Operation Life at Full Charge (no battery)	up to 72 hours
Optional Battery Life	10 years (1/2AA 3.6V Lithium)
Operating Temperature	-3°F to 140°F (20°C to 60°C)
Detection Distance (PIR Sensor)	39 ft (12 m)
Detection Range (Horizontal & Vertical) (PIR Sensor)	102° x 92°
Detection Zone	92 beams

To select profiles other than default, utilize the MES software for configuration "AirConfig".



Coverage Diagrams

Side View 1



Long Distance Detection Type

