Radio Window, sensor Installation Instructions Please Read Before Installing

Wireless Battery-Powered

Mullion-Mount Sensor Pair LRF2-SSM-SM 3 V=== 7 µA 434 MHz



Product Description

Lutron's Radio Frequency enabled Radio Window sensor enhances the performance of Hyperion m solar-adaptive shading systems by working at the window level to communicate current exterior light conditions to the Quantum® Total Light Management System, enabling Hyperion™ to respond appropriately, improve occupant comfort, and enhance the system's energy saving potential. The sensor maximizes natural daylight, available views, and occupant comfort when shadows are cast on buildings as well as when dark cloudy or bright sunny weather conditions prevail. The battery powered sensor features easy installation and low maintenance costs

Technical Assistance

U.S.A. and Canada (24 hrs / 7 days)

1.800.523.9466 Fax +1.610.282.6311

Mexico 8am – 8pm ET +1.888.235.2910

Other countries 8am – 8pm ET

+1.610.282.3800 www.lutron.com

Important Notes

1. These sensors are part of a system and cannot be used to control a load or shade without a compatible Lutron Quantum® Total Light Management System with HyperionTM solar-adaptive technology. Refer to the instruction sheets of the receiving devices for installation information on setup and testing of these sensors.

2. Clean sensors with a soft damp cloth only. DO NOT use any chemical cleaners.

- 3. For indoor use only. Operate between 54 °F and 122 °F (12 °C and 50 °C).
- 4. DO NOT paint sensors.
- 5. The range and performance of the RF system is highly dependent on a variety of complex factors such as:
- a. Distance between system components
- b. Geometry of the building structure
- c. Construction of walls separating system components d. Electrical equipment located near system components

WARNING: ENTRAPMENT HAZARD. To avoid the risk of entrapment this product must not be used to control equipment which could create hazardous situations, such as entrapment, if operated accidentally. Examples of equipment which must not

be controlled with this product include (but are not limited to) motorized gates, garage doors, industrial doors, etc. Accidental operation of the above equipment with this product could result in serious injury or death.

FCC/ IC Information

This device complies with part 15 of the FCC Rules and Industry Canada licenseexempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation Modifications not expressly approved by Lutron Electronics Co., Inc. could void the user's authority to operate this equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- . Increase the separation between the equipment and receiver · Consult the dealer or an experienced radio/TV technician for help.

Getting Started

How it works:

English

HyperionTM solar-adaptive shading technology automatically positions shades based on the position of the sun

Battery powered photo sensors report the measured amount of natural light incident on a facade to Quantume using Lutron Clear Connecte RF Technology.



Install Batteries

NOTE: Before setting up the sensors, the corresponding Lutron Quantum® Total Light Management System should be installed. Refer to that product's installation instructions.

Use only high-quality lithium batteries, one (1) size CR2450, 3 V---(ANSI-5029LC, IEC-CR2450). DO NOT use size CR2032, or rechargeable batteries. Using improperly rated batteries could damage the sensors.

NOTICE: DO NOT disassemble, crush, puncture, or incinerate batteries. DO NOT dispose of batteries in normal household waste. Please recycle, take to a proper battery disposal facility, or contact your local waste disposal provider regarding local restrictions on the disposal or recycling of batteries.

WARNING: HEALTH HAZARD. May result in serious injury or death f battery is swallowed. Keep out of reach of children.

CALIFORNIA RESIDENTS:

The batteries in these devices contain Perchlorate Material-special handling may apply. For more information visit www.dtsc.ca.gov/hazardouswaste/ perchlorate.

Remove a sensor's back cover by pulling it straight off. 1.



Insert battery with the negative side up. When done correctly, the 2. sensor powers up, indicated by a flashing LED.





Repeat steps 1 - 3 to install the battery in the other sensor 4.



Interior

Unobstructed

View

Orientation and Location

Flush mount to window mullion near top of window, ensuring the exterior view is not obstructed. Ensure the shade fabric

does not come between the sensor and the window, and does not physically interfere with the sensor. • Mount sensors on opposite

mullions of each shade aroup. Ensure the arrow points

directly toward the window alass • **DO NOT** position the Radio Window™ sensor on a skylight, near an indirect

lighting fixture, or below any window feature casting a shadow on the sensor.

Operating and performance

specifcations are based on mounting sensors at 90° to the window glass; contact Lutron prior to mounting on mullions at other angles.

Window

Glass

Mullion





ROOM | WIND

Ε Troubleshooting

| Symptom | Possible Causes | Solution |
|---|---|---|
| Sensor does not stick to mounting surface | Surface not clean | Refer to section B. Sensor Placement |
| | Adhesive exposed to dirt or debris | |
| Sensor does not stay attached to back cover | Sensor and back cover not properly aligned | Refer to section A. Install Batteries, Step 3 |
| | Debris or foreign object inside back cover | Clear debris or foreign object from back cover, and refer to section A. Install Batteries, Step 3 |
| Sensor(s) will not assign | One or both batteries dead or incorrectly installed | Refer to section A. Install Batteries |
| | Quantum® not compatible with sensor(s) | Use the latest compatible version of Quantum® (2.7 or higher) |
| Shades allow too much sunlight into the space | Sensor(s) mounted in persistent shadow | Refer to section B. Sensor Placement |
| | Arrow on sensor(s) not pointing toward the window | Refer to section C. Mounting the Sensors, Step 3 |
| | System threshhold(s) out of adjustment | Adjust settings in Quantum⊚ Hyperion™ wizard |
| | Shade "visor position" out of adjustment | |
| | Shade under manual control | Clear manual override in Quantum® |
| Shades do not respond to outside conditions | Sensor(s) missing or incorrectly installed | Check for presence of sensors; locate and/or reinstall if necessary |
| | One or both batteries dead or incorrectly installed | Refer to section A. Install Batteries |
| | Sensor(s) not in range of Quantum® system | Reposition sensor(s) within range of receiving device |
| | Sensor(s) not assigned to shade(s) | Check and correct sensor assignment in Quantum® |
| Shades move too often | System timeout settings out of adjustment | Adjust to longer timeouts in Quantum⊛ Hyperion™ wizard |
| Shades don't move often enough | | Adjust to shorter timeouts in Quantum® Hyperion™ wizard |

Limited Warrantv

(Valid only in U.S.A., Canada, Puerto Rico, and the Caribbean.) Lutron will, at its option, repair or replace any unit that is defective in materials or manufacture within one year after purchase. For warranty service, return unit to place of purchase or mail to Lutron at 7200 Suter Rd., Coopersburg, PA 18036-1299, postage pre-paid.

THIS WARRANTY IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES, AND THE IMPLIED WARRANTY OF MERCHANTABILITY IS LIMITED TO ONE YEAR FROM PURCHASE. THIS WARRANTY DOES NOT COVER THE COST OF INSTALLATION. REMOVAL OR REINSTALLATION. OR DAMAGE RESULTING FROM MISUSE. ABUSE OR DAMAGE FROM IMPROPER WIRING OR INSTALLATION. THIS WARRANTY DOES NOT COVER INCIDENTAL OR CONSEQUENTIAL DAMAGES, LUTRON'S LIABILITY ON ANY CLAIM FOR DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE MANUFACTURE, SALE, INSTALLATION, DELIVERY, OR USE OF THE UNIT SHALL NEVER EXCEED THE PURCHASE PRICE OF THE UNIT.

This warranty gives you specific legal rights, and you may have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitation on how long an implied warranty may last, so the above limitations may not apply to you. Lutron, Quantum, and Clear Connect are registered trademarks and Hyperion is a trademark of Lutron Electronics Co., Inc. © 2013 Lutron Electronics Co., Inc.











The arrow on the front of each sensor must point directly at the 4. window glass. After mounting, sensors may be rotated to achieve the correct orientation.



Repeat steps 1 - 3 to mount the other sensor on the other side of 5. the window or window group, as shown under section B. Sensor Placement

D Sensor Setup

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Worldwide Headquarters | USA

Lutron Electronics Co., Inc. 7200 Suter Road Coopersburg, PA 18036-1299 USA TEL: 1.610.282.3800 FAX: 1.610.282.3090 Technical Support: 1.800.523.9466 Toll Free: 1.888.LUTRON1 EMAIL: shadinginfo@lutron.com WEB: www.lutron.com/shadingsolutions

Europe Headquarters | United Kingdom

Lutron EA Ltd 6 Sovereign Close London, E1W3JF, UK TEL: +44.(0)20.7702.0657 FAX: +44.(0)20.7480.6899 Technical Support: +44.(0)20.7680.4481 FREEPHONE: 0800.282.107