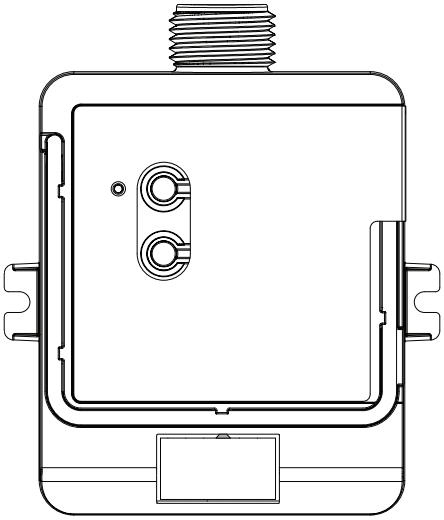
RF Relay Module with Softswitch

Compatible with RA2 Select, RadioRA 2, and HomeWorks systems

The RF relay module with Softswitch is a radio frequency (RF) device that uses Lutron patented Softswitch technology to control up to 16 A of general-purpose loads based on input from RA2 Select, RadioRA 2, and HomeWorks systems.



- Lutron patented Softswitch technology prevents arcing of relay contacts, extending product lifetime.
- Various operating voltages available — refer to **Models** chart below for details on voltage requirements.
- Capable of switching 16 A of general-purpose loads.
- Utilizes Lutron Clear Connect RF technology— refer to model number chart below for frequency band data and Lutron system compatibility.
- Mounts to an electrical junction box through a 1/2 in (21 mm trade-size) knockout opening.
- Complies with requirements for use in a compartment handling environmental air (plenum) per NEC® 2011 300.22(C)(3) (LMJ- model only).

Models

Model Number	Region	Operating Voltage	Frequency Band	Compatible Systems
LMJ-16R-DV-B	U.S.A., Canada, Mexico	120/ 277 V~	431.0–437.0 MHz	RA2 Select, RadioRA 2, HomeWorks
LMK-16R-DV-B	Europe, U.A.E.	220–240 V~	868.125–869.850 MHz	
LMM-16R-DV-B	China		868.125–868.475 MHz	
LMQ-16R-DV-B	Hong Kong, Israel		433.05–434.79 MHz	

NOTE: Contact Lutron for frequency band compatibility for your geographic region if it is not indicated above.

Customer Assistance:
1.844.LUTRON1 (U.S.A./Canada)
+44.(0)20.7680.4481 (Europe)

RF Relay Module with Softswitch

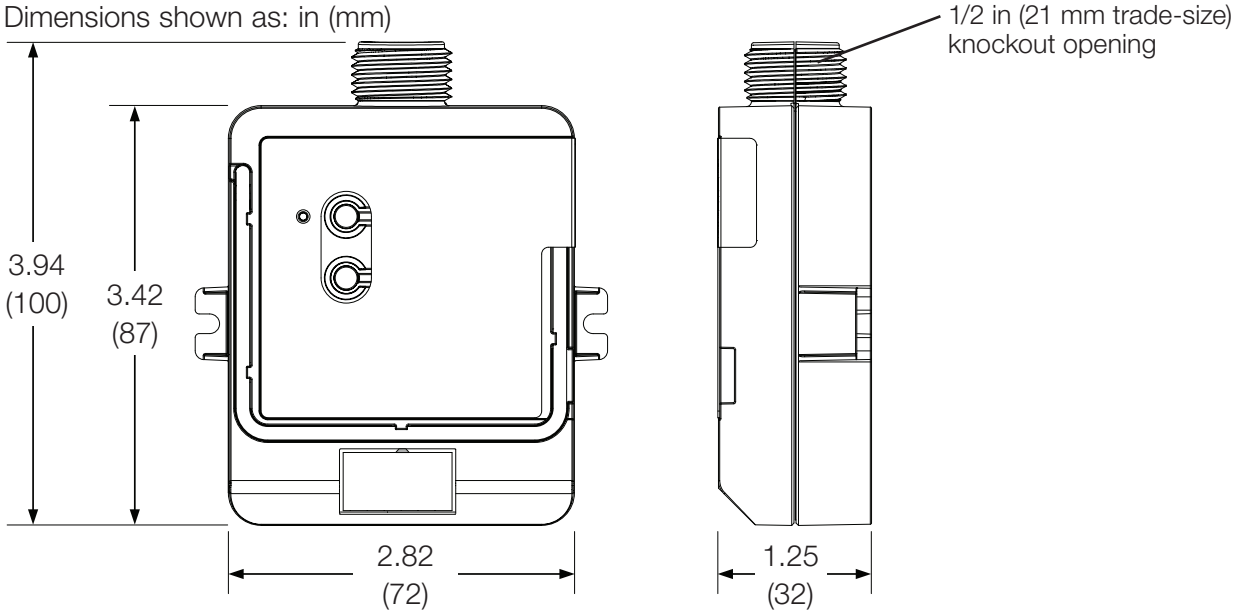
Specification

Model Number	LMJ-16R-DV-B, LMK-16R-DV-B, LMM-16R-DV-B, LMQ-16R-DV-B
Power	120/277 V~ 50/60 Hz 16 A (LMJ- model) 0.5 HP at 120 V~ 1.5 HP at 277 V~ 220–240 V~ 50/60 Hz 16 A (LMK-, LMM-, LMQ- models) motor: 6 A
Typical Power Consumption	< 1.0 W Typical power test conditions: all loads off, top LED on
Regulatory Approvals	UL®, UL 2043 Plenum Rated, FCC Approved. Complies with the limits for a Class B device, pursuant to Part 15 of the FCC rules: CSA, IC, NOM (LMJ- model) CE, TRA, CITC (LMK- model)
Environment	Ambient operating temperature: 32 °F to 131 °F (0 °C to 55 °C) Ambient operating humidity: 0% to 90% humidity, non-condensing. Indoor use only.
Communications	Operates using Clear Connect RF technology for reliable wireless communication; refer to **Models** chart on page 1 for band frequency details. RF range is 30 ft (9 m) from repeaters. Contact Lutron for applications using foil-backed or metallic ceiling tiles.
Load	Maximum load: 16 A general purpose. No minimum load requirements. Load types include, but are not limited to: Incandescent, MLV, ELV, Resistive, Inductive, Magnetic fluorescent, and Electronic fluorescent.
Surge Protection	Tested to withstand surge voltages without damage or loss of operation, in accordance with IEEE C62.41-1991 Recommended Practice on Surge Voltages in Low-Voltage AC Power Circuits.
Mounting	Mounts to an electrical junction box through a 1/2 in (21 mm trade-size) knockout opening.
Warranty	www.lutron.com/TechnicalDocumentLibrary/Warranty.pdf www.lutron.com/TechnicalDocumentLibrary/Intl_Warranty.pdf

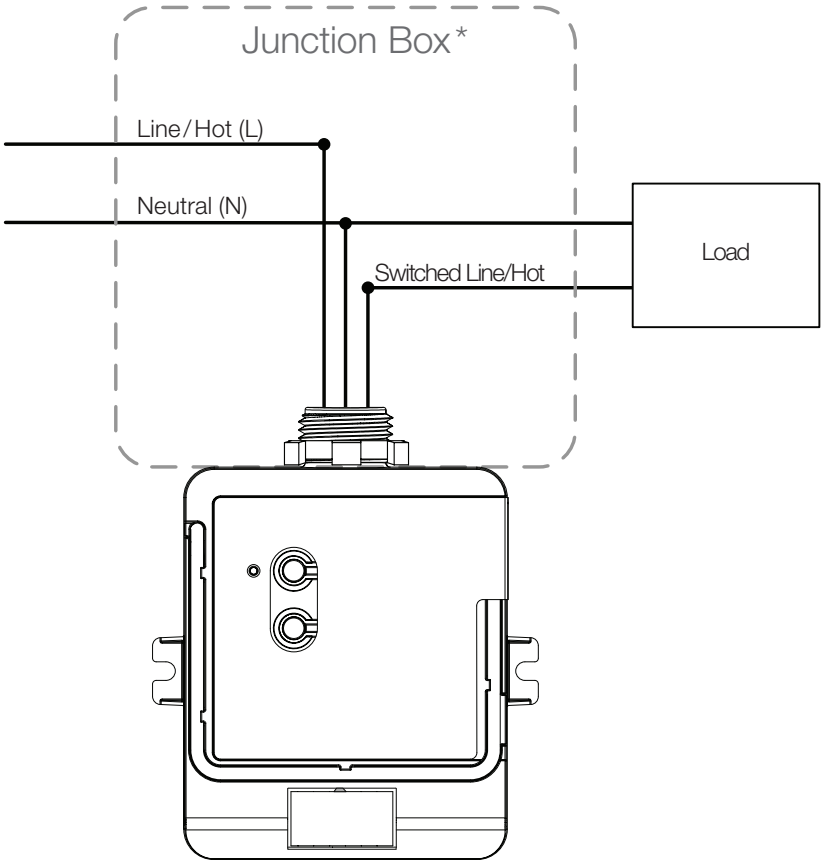
RF Relay Module with Softswitch

Dimensions

Dimensions shown as: in (mm)



Wiring Diagram



* **NOTE:** Some applications (in USA) require the RF module to be installed inside an additional junction box. For information about how to perform this installation, please see Application Note #423 (P/N 048423) at www.lutron.com. Please consult all local and national electric codes for proper installation methods.

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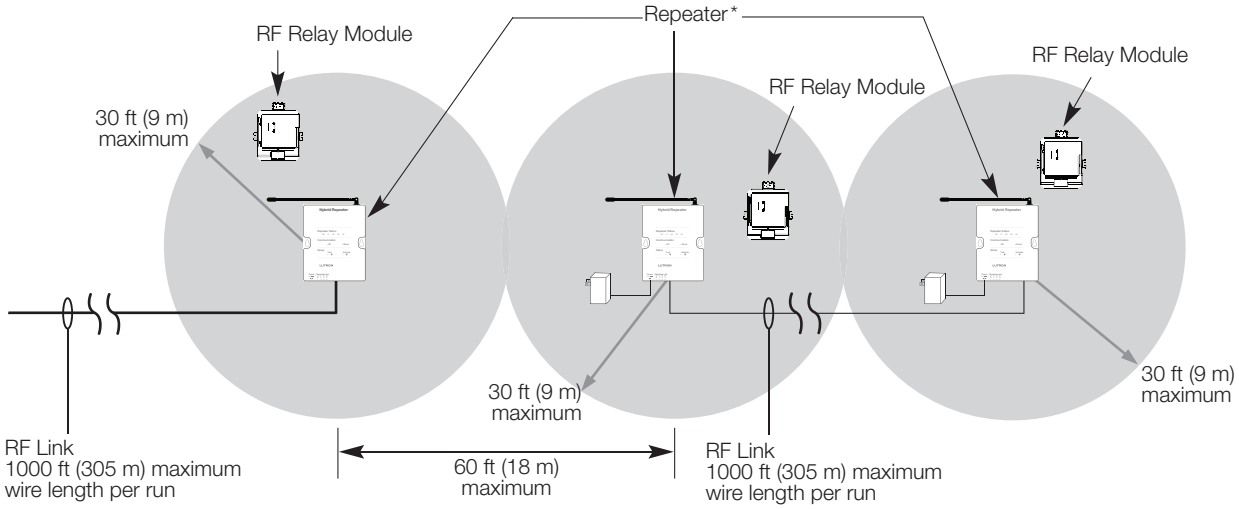
RF Relay Module with Softswitch

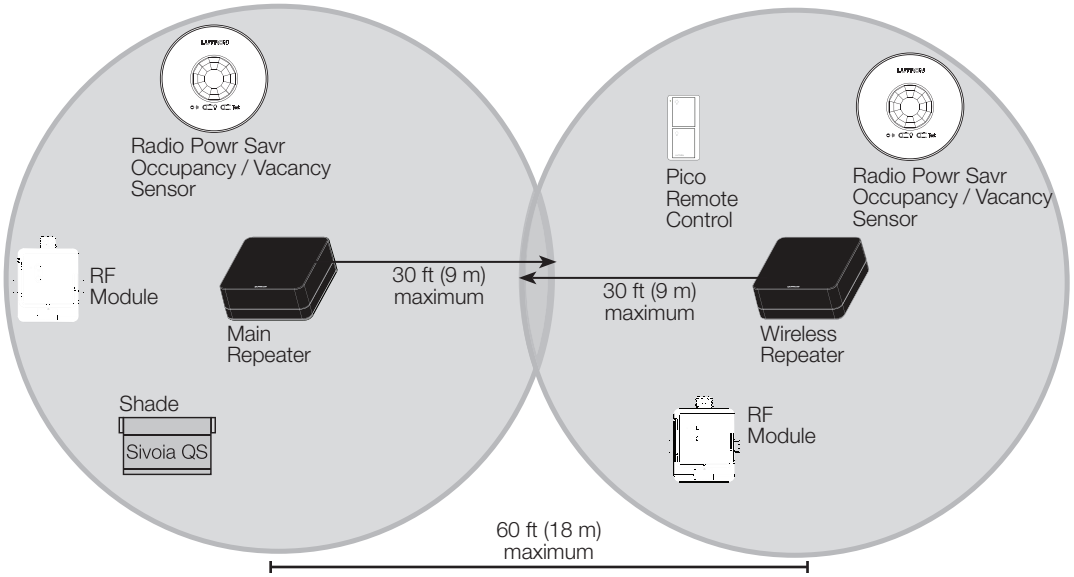
Communications

Wired and RF Configuration (RadioRA 2 and HomeWorks)



* In HomeWorks systems, use hybrid repeaters for range extension. In RadioRA 2, the repeater shown may be either a main repeater (1 required) or auxiliary repeater (up to 4 permitted).

RA2 Select RF Range



All devices must be located within 30 ft (9 m) of a repeater. The range can be extended with up to 4 Lutron wireless repeaters (Lx-REPPRO).