HomeWorks In-Line Load Controls

The HomeWorks family of in-line dimmers, switches and fan controls can control lighting, motor, and fan loads and provide a system that is convenient and easy to install.

HomeWorks in-line load controls use Lutron patented Clear Connect RF technology which provides reliable, wireless communication with other HomeWorks devices. Using a HomeWorks hybrid repeater allows devices to be part of a whole house solution that can be controlled remotely from anywhere in the world.



Control Type	Model Number	Frequency	Country/ Region
Dimmer	HQRK-R25NE-240	868 MHz	UK, Europe
Dimmer	HQRM-R25NE-240	868 Limited	China
Dimmer	HQRN-R25NE-240	865 MHz	India
Dimmer	HQRQ-R25NE-240	434 Limited	Hong Kong, Israel
Switch	HQRK-R6ANS-240	868 MHz	UK, Europe
Switch	HQRM-R6ANS-240	868 Limited	China
Switch	HQRN-R6ANS-240	865 MHz	India
Switch	HQRQ-R6ANS-240	434 Limited	Hong Kong, Israel
Fan Control	HQRN-RNFSQ-240	865 MHz	India
Fan Control	HQRK-RNFSQ-240	868 MHz	UK

Features

- The reverse-phase dimmer is trailing-edge capable of up to 250 W of incandescent/halogen/ELV loads and up to 1 A/150 W of LED.
- The switch is rated for 6 AX of general purpose lighting load and 2 A/0.5 HP of motor load.
- The four-speed fan control is rated for a single AC ceiling fan up to 100 W.**
- When powered on in an unaddressed state (not paired with a Pico remote control or activated in a system), the fan control will turn on the fan for two (2) minutes to allow the installer to verify that the device is installed and wired correctly.
- The four fan speed settings (low, medium, medium high, and high) can be adjusted to be faster or slower to optimize each for the specific ceiling fan that is being used. This feature is accessible within the device settings in the Lutron app.
- When used with a HomeWorks hybrid repeater*, the load controls can be programmed and controlled via lighting scenes, scheduled daily events, the Lutron Connect app, and other HomeWorks system features. Also, the load controls can be controlled from anywhere in the world.
- Small size allows for simple retrofit installation.
- Remote device association allows for in-line controls to be added to a system without physically accessing product.

* Requires HomeWorks software 14.0 or later.

** Use to control one AC ceiling fan. Not for use with DC motor fans, fans with integrated light control modules, fans with remote controls, or WI-FI only fans. Not for use with shaded-pole type motors (e.g., bathroom or kitchen exhaust-type fans).

Customer Assistance:
+44.(0)20.7702.0657 (Europe)
0800.282.107 (UK)

HomeWorks In-Line Load Controls

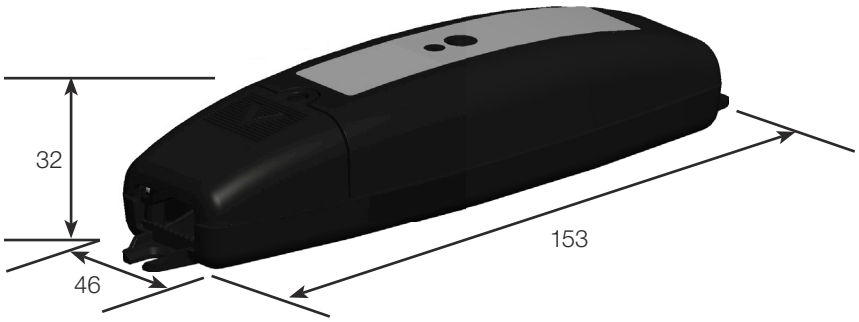
Specifications

Power	220–240 V~ 50/60 Hz
Typical Power Consumption	***Dimmer / Switch / Fan Control:*** <0.5 W Test conditions: Load and LED are off
Regulatory Approvals	CE (HQRK model only) IDMA (HQRM model only) WPC (HQRN model only)
Environment	Ambient operating temperature: 0 °C to 40 °C, 0% to 90% humidity, non-condensing. Indoor use only.
Communications	HomeWorks in-line load controls communicate with the system through Radio Frequency (RF). They must be located within 9 m of a hybrid repeater. System devices operate on 868 MHz, 868 MHz Limited, 865 MHz or 434 MHz Limited frequencies.
ESD Protection	Tested to withstand electrostatic discharge without damage or memory loss, in accordance with IEC 61000-4-2.
Surge Protection	Tested to withstand surge voltages without damage or loss of operation, in accordance with IEEE C62.41-1991 Recommended Practice for Surge Voltages in Low-Voltage AC Power Circuits.
Power Failure	Power failure memory: should power be interrupted, the control will return to its previously set level prior to the interruption when power is restored.
Mounting	Allow adequate space to ensure convective cooling of load control. Remove any insulation, heat generating equipment, or obstructions within 120 mm of the load control. For optimal RF performance, no metal or other electrically conductive material should be present within 120 mm around the top and sides of the load control. The load control is not suitable for installation in places where it is fully enclosed in metal (e.g., metal enclosures, electrical cabinets) or within metal ceilings.
Wiring	HomeWorks in-line controls accept wire gauges between 0.5 mm^2 to 2.5 mm^2. Note: All outside wire diameters must be the same and must be between 5.2 mm–8.5 mm.
Device Limits	***With repeater:*** Up to 100 devices (e.g., load controls, Pico wireless controls, Radio Powr Savr sensors, shades, and repeaters) are supported per RF link. The processor counts as one device and four locations are reserved for hybrid repeaters. Note: Load controls have load type and capacity limits. For more information, see **Load Type and Capacity**.
Warranty	www.lutron.com/TechnicalDocumentLibrary/Intl_Warranty.pdf

HomeWorks In-Line Load Controls

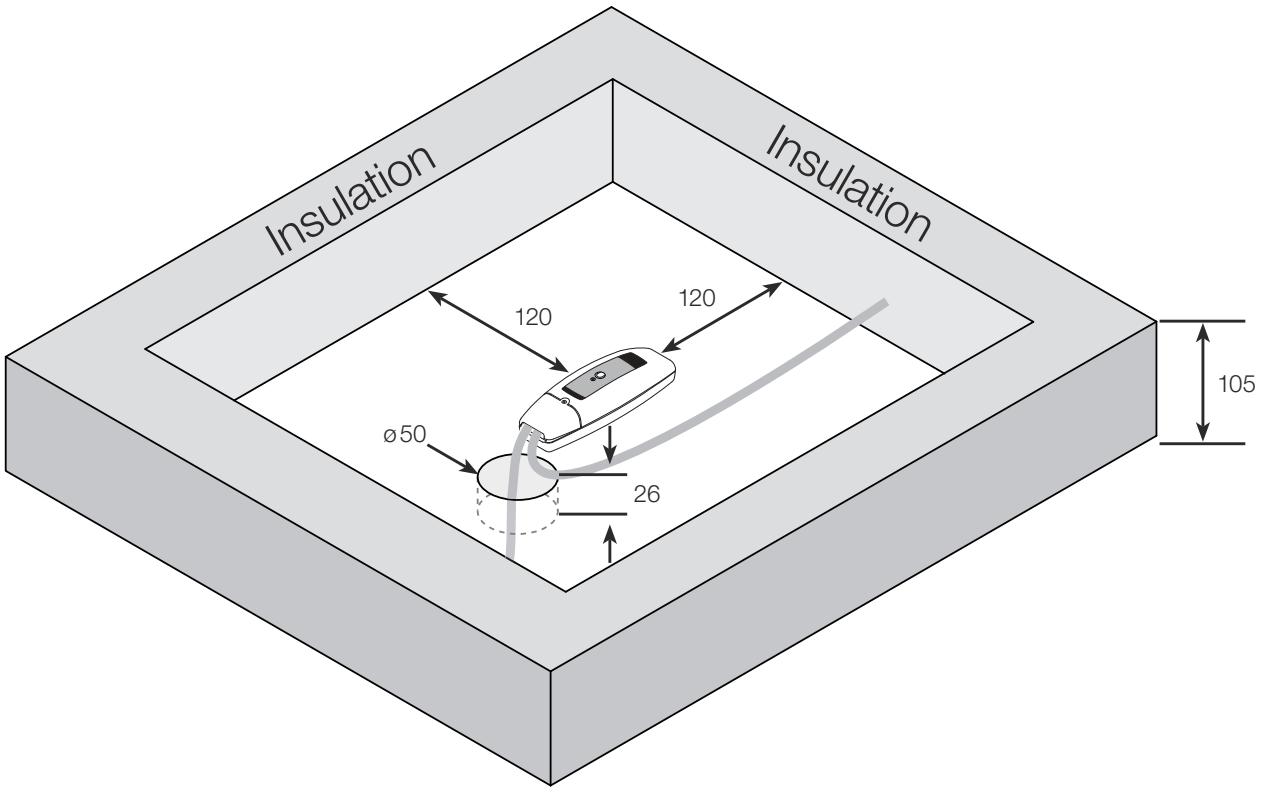
Dimensions

All dimensions are shown as: mm



Mounting and Installation

All dimensions are shown as: mm



HomeWorks In-Line Load Controls

Load Type and Capacity

Model	Voltage	Load Types
HQRK-R25NE-240 HQRM-R25NE-240 HQRN-R25NE-240 HQRQ-R25NE-240	220–240 V~ 50/60 Hz	1 A 250 W – Incandescent, halogen, ELV 1 A 150 W – LED*
HQRK-R6ANS-240 HQRM-R6ANS-240 HQRN-R6ANS-240 HQRQ-R6ANS-240		6 AX Lighting (all types) 2 A/0.5 HP Motor (M)
HQRN-RNFSQ-240 HQRK-RNFSQ-240		100 W max. one (1) AC ceiling fan**

* LED rating is 1 A. If no current rating is specified, a power rating of 150 W can be used. Higher ratings (up to the incandescent rating) can be achieved for specific LED fixtures based on Lutron testing results. Refer to lutron.com/ledtool for compatibility testing results and the maximum number of LED fixtures. Using LED fixtures that are not tested can result in the fixtures not turning on or poor dimming quality. LED dimming performance can vary from fixture to fixture and cannot be guaranteed.

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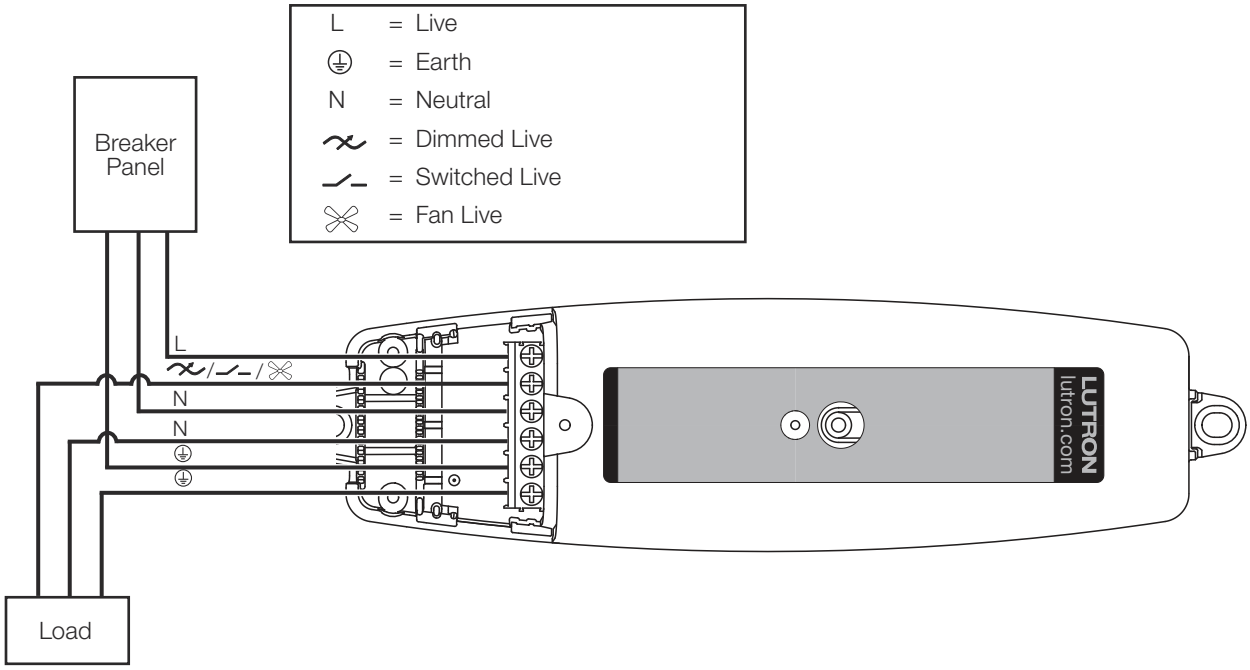
Compatible Power Boosters and Load Interfaces

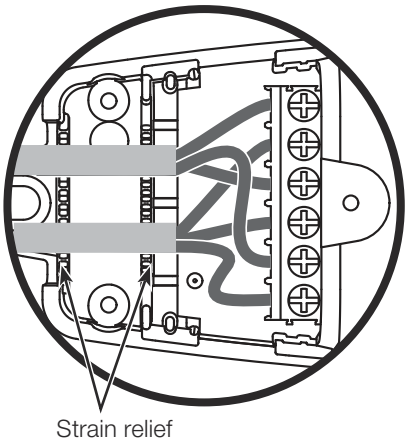
Some local controls can be used to control power boosters or load interfaces. Up to three power boosters or load interfaces can be used with one control. See table below for a list of controls and compatible power boosters and load interfaces.

Control	0-10 V interface GRX-TVI
HQRK-R25NE-240	✓
HQRM-R25NE-240	✓
HQRN-R25NE-240	✓
HQRQ-R25NE-240	✓
HQRK-R6ANS-240	✓
HQRM-R6ANS-240	✓
HQRN-R6ANS-240	✓
HQRQ-R6ANS-240	✓

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Wiring

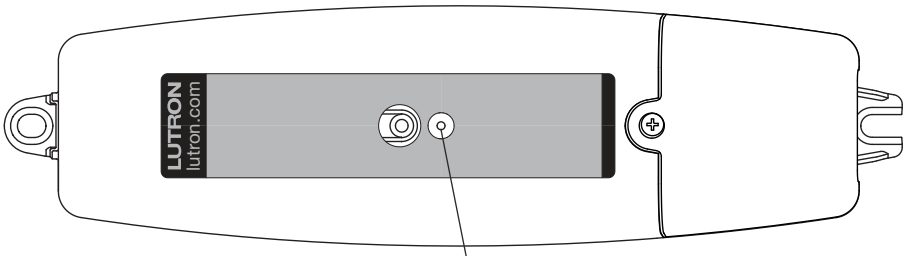




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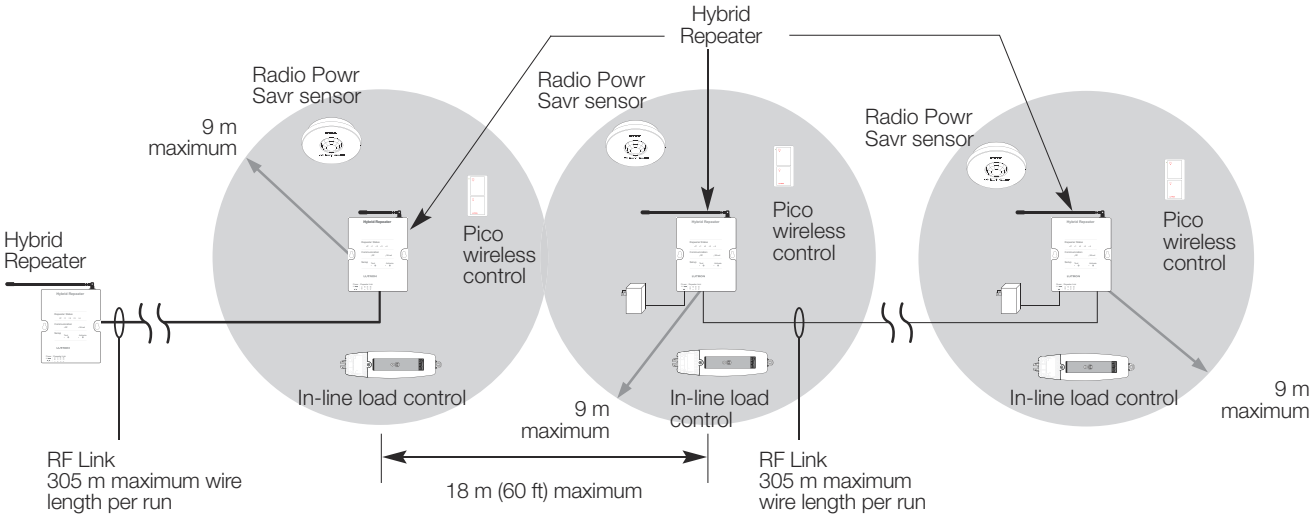
HomeWorks In-Line Load Controls

Operation



Green - Blinks when load is toggled
Flashes during association
Blue - Advanced programming mode (APM)
Red - Blinks when error

RF Range



All devices must be located within 9 m of a hybrid repeater. The range can be extended with up to four HomeWorks hybrid repeaters (HQx-REP) on a single RF link.

HomeWorks In-Line Load Controls

Model Numbers

HQRX-RXXXX-240

Frequency / Channel Code

Device Type

Frequency / Channel Code
K = 868 MHz
M = 868 MHz Limited
N = 865 MHz
Q = 434 MHz Limited

Device Type
6ANS = Switch (Neutral Required)
25NE = Dimmer (Neutral Required)
NFSQ = Fan Control (Neutral Required)

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