HOMEWORKS

P/N 043613 Rev A

English

## In-line Dimmer

**HQRK-R25NE-240**
**HQRM-R25NE-240**
**HQRN-R25NE-240**
**HQRQ-R25NE-240**
**220–240 V~ 50/60 Hz**

**1 A 150 W**
**LED***

**1 A 250 W**
**Incandescent/**
**Halogen**
**ELV**

* LED Load Capacity: LED current ratings must be below 1 A. If no current rating is available, wattage must be below 150 W.

## In-line Switch

**HQRK-R6ANS-240**
**HQRM-R6ANS-240**
**HQRN-R6ANS-240**
**HQRQ-R6ANS-240**
**220–240 V~ 50/60 Hz**

**6 AX**
**All lighting**

**2 A 0.5 HP**
**Motor**

## In-line Fan Control

**HQRK-RNFSQ-240**
**HQRN-RNFSQ-240**
**220–240 V~ 50/60 Hz**

**Single AC Ceiling Fan**
**100 W**

Complies with ImDA standards DA 103083

For advanced features, tips for using LEDs, the complete HomeWorks product line, and more, please visit **www.lutron.com/homeworks**

## Help

Europe: **+44.(0)20.7702.0657**
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U.S.A./Canada: **1.844.LUTRON1**
Mexico: **+1.888.235.2910**
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Others: **+1.610.282.3800**
Fax: **+1.610.282.6311**

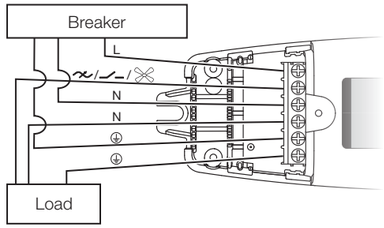
LUTRON

# Installing the in-line load control

## 1 Turn OFF power at circuit breaker or remove fuse

**WARNING: SHOCK HAZARD.**
May result in serious injury or death. Always isolate the mains power supply or remove fuse before servicing or installing.

## 2 Connect wires

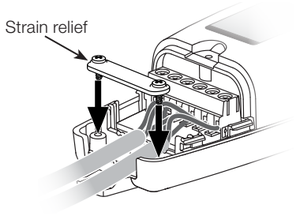



L = Live
⏚ = Earth
N = Neutral
= Dimmed Live
= Switched Live
= Fan Live

5 mm

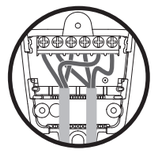
Products must be installed in accordance with the latest building and IEE wiring regulations.

## 3 Install strain relief and tighten screws

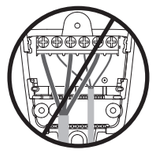



Ground wires ⏚ require additional length during installation.

Correct



Incorrect




Two sizes of strain reliefs included. Ⓐ provides the best strain relief for most wire diameters. For some large wire applications, Ⓑ will be needed.

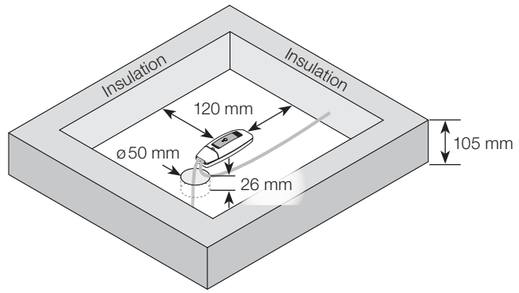
**Note:** All outside wire diameters must be the same and must be between 5.2–8.5 mm.

## 4 Install endcap and screw

## 5 Install load control

The load control must be installed in an adequately ventilated area as shown below without heat generating equipment, or obstructions. During normal operation, the in-line switch will make an audible click.

**Notes:**
- 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).




## 6 Turn ON power at circuit breaker or install fuse

**CAUTION: RISK OF BODILY HARM.** Fan will turn on and start spinning for two (2) minutes once power is applied. Stay clear of the ceiling fan before applying power. Disconnect power before servicing. See the Troubleshooting section if the fan does not turn on. This only applies to in-line fan controls.

# Pairing a Pico Wireless Control to an In-Line Load Control Without a System

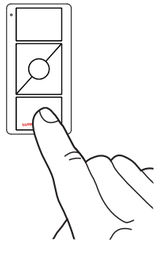
**CAUTION: RISK OF BODILY HARM.** The ceiling fan will start spinning when a Pico wireless control button is pressed after pairing. Remain clear of the ceiling fan before pressing the Pico wireless control buttons. This only applies to in-line fan controls.

1. Press and hold the button on the in-line load control for six (6) seconds. The LED will begin flashing. The device will stay in pairing mode for ten (10) minutes.
2. Press and hold the OFF button on the Pico wireless control for six (6) seconds until the LED on the Pico wireless control flashes.
3. When successfully paired, the LEDs on the in-line load control and the Pico wireless control will flash quickly. The light load on an in-line dimmer or switch will also flash.
4. Press the ON button on the Pico wireless control and verify the load control turns on the load. See the Troubleshooting section if the load does not turn on.

Figure 1

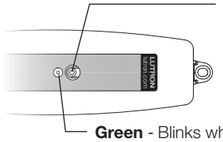

In-Line Load Control

Figure 2



Pico Wireless Control

# Operation




**In-Line Dimmer and Switch** - Button toggles the load on and off.
**In-Line Fan Control** - Button does not control the fan. The button is used for pairing and factory reset only.

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

## Error Codes – Red

| Blink pattern ☼=on ○=off | Probable Cause |
|---|---|
| ☼ ○ ○ ○ ○ ☼ ○ ○ ○ ○ | • Wiring error. Product may be permanently damaged. |
| ☼☼ ○ ○ ○ ☼☼ ○ ○ ○ | • Unsupported load type (dimmer not rated for MLV loads). |
| ☼☼☼ ○ ○ ☼☼☼ ○ ○ | • Wiring error.<br>• Load may be shorted.<br>• Circuit has too much load. |
| ☼☼☼☼ ○ ☼☼☼☼ ○ | • Circuit has too much load.<br>• Inadequate ventilation around in-line control. |

# IMPORTANT

1. CAUTION: Use only with permanently installed fixtures. To avoid overheating and possible damage to other equipment, do not use to control receptacles.
2. Install in accordance with all national and local electrical codes.
3. For indoor use only between 0 °C and 40 °C (32 °F and 104 °F); 0%–90% humidity, non-condensing.
4. In-line dimmers are not rated for MLV loads and are only compatible with reverse-phase loads. Magnetic low-voltage (MLV) loads require a forward-phase device or switch for proper operation.
5. The in-line fan control is only compatible with AC fans. Not for use with DC/BLDC motor fans, fans with a remote control, Wi-Fi only fans or exhaust fans (bathroom or kitchen exhaust fans). Do not connect to any other motor-operated appliance or to any lighting load type, including lighting loads on a fan.

CE Hereby, Lutron Electronics Co., Inc. declares that the radio equipment type HQRK-R25NE-240, HQRK-RNFSQ-240 and HQRK-R6ANS-240 are in compliance with Directive 2014/53/EU

The full text of the EU declaration of conformity is available at the following internet address: Lutron.com/cedoc

## Troubleshooting

| Symptoms | Probable cause |
|---|---|
| Load does not turn on. | • Light bulb(s) burned out.<br>• Breaker is OFF or tripped.<br>• Light not properly installed.<br>• Wiring error.<br>• Fan pull chain or integrated power switch is off.<br>• Error has occurred. See **Error Codes** section for more information. |
| Load does not respond to controls. | • System devices are too far apart.<br>• The load control is already at the light level/fan speed.<br>• The load control is not associated with a system or Pico wireless control.<br>• The controls are outside the 9 m (30 ft) operating range.<br>• Error has occurred. See **Error Codes** section for more information. |
| • Load turns off while being dimmed.<br>• Load turns on at high light level but does not turn on at a low light level.<br>• Load flickers or flashes when dimmed to a low light level. | • Verify LED bulbs are marked dimmable.<br>• Low-end trim may need to be adjusted for best LED bulb performance. Trim can be adjusted in the HomeWorks software. |
| • Ceiling fan stalls at low level.<br>• Fan speed settings are too slow or too fast. | Fan speed settings may need to be adjusted for best ceiling fan performance. Fan speed settings can be adjusted in the Lutron Designer software. |
| Fan only works at high level. | Lutron in-line fan controls are designed to work with AC fans only. Confirm fan type with fan manufacturer. |

## Return to Factory Settings

1. Quickly triple tap the button on the load control, holding on the third tap.
2. Once the load starts to flash, release the button and immediately triple tap it again.
3. The load will flash and the load control will be returned to factory settings.
4. When an in-line fan control is returned to its factory settings, there is no feedback from the fan load; however, the LED on the device flashes and the fan will turn off.

**Limited Warranty:**
www.lutron.com/europe/Service-Support/Pages/Service/Warranty