

240V AC (2 Pole) Relay Companion Module Installation Manual

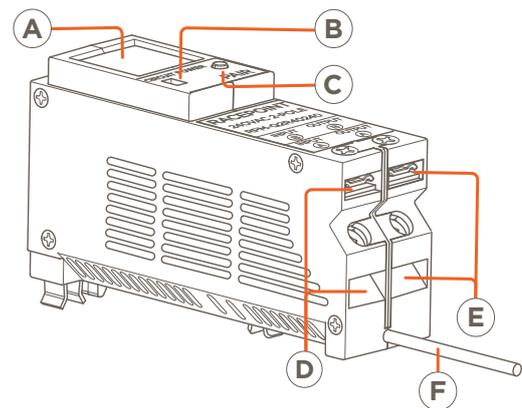
Box Contents

- (1) 30 Amp 240V AC Relay Companion Module
 - RPM-Q2R40240-xx QO™ Style Relay Module -or-
 - RPM-H1R40240-xx Homeline™ Style Relay Module
- (1) Product Information and Regulatory Insert (009-1701-xx)
- (1) Quick Reference Guide (this document)

Specifications

Environmental	
Temperature	32° to 104° F (0° to 40° C)
Humidity	5% to 85% Relative Humidity (non-condensing)
Location	Indoor Use Only
Dimensions and Weights (net)	
	Height Length Depth Weight
Module (Homeline)	1.98 in. (5.03 cm) 4.87 in. (12.37 cm) 2.80 in. (7.11 cm) .5 lbs (.23 kg)
Module (QO)	1.48 in. (3.76 cm) 5.00 in. (12.70 cm) 2.63 in. (6.68 cm) .5 lbs (.23 kg)
Shipping	1.71 in. (4.34 cm) 7.50 in. (19.05 cm) 4.30 in. (10.92 cm) 1.0 lbs (.45 kg)
Power	
Inputs (max)	240V AC @ 60 Hz, 30 amps
Load Power (max)	7200VA (30 amp resistive load)
Features of Automatic Action	Type 1.B action
Standards	
Wireless	Bluetooth Low Energy (BLE) 2.4 GHz radio frequency
Regulatory	
	FCC Part 15 UL ICES 003
Safety and Emissions	 
Contains FCC ID:	2AA9B04
Contains IC:	12208A-04
RoHS	Compliant
Recommended Load Center Types	
All Homeline™ compatible modules fit into 1-inch load centers.	
All QO™ compatible modules fit into ¾ inch load centers.	
Supported Load Types	
Standard Configuration	- Non-dimmable circuits. - Relay On/Off type loads (e.g. appliances)
Terminals	
Screw Tighten Torque	1.34 Nm
Wire / Conductor Type	Copper (Cu) only
Minimum Supported Release	
Savant OS	da Vinci 9.0

Descriptions



Multi-Page LCD screen can display the following:

- Power draw.
- Firmware, Mac Address, GUI version, and Regulatory Info.
- UID of the Host the module is communicating with.
- Real-time Bluetooth status connectivity icon.

A

Manual Load Switch - Toggle switch to ON position to switch the load on. Toggle switch to AUTO for normal operation.

B

PAIR Button - This is a multi-use button. How the button is pressed will determine its function:

C

Press and Release - Cycles through the various screens available on the LCD (Power > INFO 1 > INFO 2).

Press and hold - Press and hold for 2 seconds to put module into pairing mode. Press and hold for 3 seconds to reset.

D

Input Power Connections - Connect the 240V AC from a 2-Pole companion breaker across INPUTS A and B. See the [Wiring](#) section (page 2).

E

Output Power Connections - Connections are labeled OUTPUT A and OUTPUT B. Connect these outputs across a 240V AC load. See the [Wiring](#) section (page 2).

F

Neutral Wire - Connect to the neutral bar in breaker panel. See the [Wiring](#) section (page 2).

Features

- Control capability for loads up to 7200 VA (volt-ampere).
- All QO™ and Homeline™ lighting modules are compatible with Schneider Electric Square D™, QO™, and Homeline™ load centers (breaker panels).
- Dynamic management of loads.
- Communicates with Panel Bridge Controller using Bluetooth Low Energy (BLE) technology.
- Manual load switch to toggle the power to the outputs On and Off.
- Color LCD display for easy identification and load status.

Installation into Breaker Panel

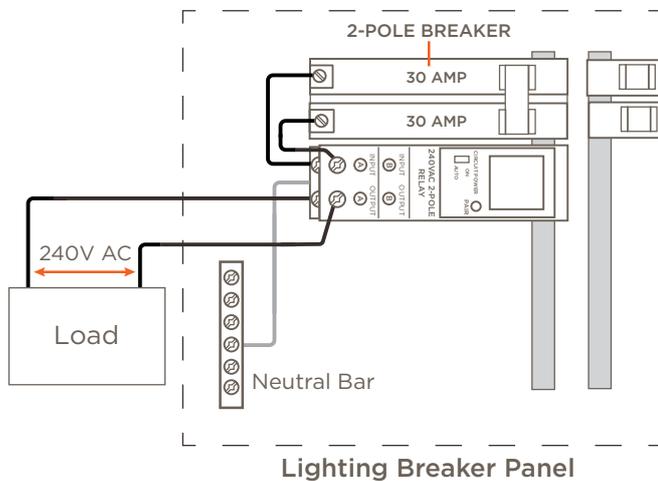
ELECTRIC SHOCK! The 120/240V AC, 60 Hz source poses an electrical shock hazard that has the potential to cause serious injury to installers and end users.

IMPORTANT! A licensed electrician is required to install Savant Relay Companion Modules.

1. At the breaker panel, switch off the main breaker so there is no power supplied to the panel.
2. Position and install a 2-pole breaker into the slots in the breaker panel. Press firmly until the breaker is fully seated onto the appropriate bus bars.
3. Position and install the Savant Relay Companion Module into the slot where it will be installed. Press firmly until the module is fully seated onto the appropriate bus bar. Typically the companion module is installed alongside the breaker.
4. Use the wiring diagram below to complete the wiring.

Wiring

Use the diagram below when making connections between the companion module, associated breaker, and load(s). When making connections, all general electrical best practices including wire sizing guidelines must be followed.



HELPFUL! Additional wiring diagrams are available in the Panel Bridge Controller and Dimming Relay Module Deployment Guide (009-1823-xx).

Additional Information

- Do not exceed the current rating on the companion breaker.
- The relay companion module can switch up to 30 amps. The breaker feeding the module should not be larger than 30 amps.
- Sum up the number of spaces needed for the companion breaker and the relay module.
 - Each 2-pole breaker requires two spaces.
 - Each companion module requires two spaces.
- Maximum number of Companion Modules that can communicate with the Panel Bridge Controller is 40.

Additional Documentation

The documents listed below are available via the **Savant Customer Community**.

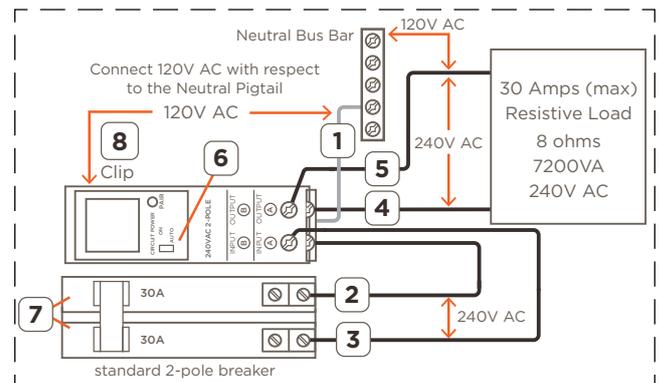
- Panel Bridge Controller Quick Reference Guide (009-1740-xx)
- Panel Bridge Controller and Dimming Relay Module Deployment Guide (009-1823-xx).
- Dual 20 Amp Relay Companion Module Installation Manual (009-1484-xx)
- Dual 500W Adaptive Phase Companion Module Dimmer Installation Manual (009-1486-xx)
- Dual 300W Forward Phase Companion Module Dimmer Installation Manual (009-1485-xx).

Circuit Test Instructions

The instructions below can be used to test that the Relay Companion Breakers are functioning correctly. The setup requires the following:

- 30 Amp Relay Companion Module.
- Resistive load with maximum amperage of 30A.
- Standard 2-pole, 30 amp circuit breaker.
- Neutral Bus Bar
- 240V AC source

1. Connect the neutral wire from the module to a neutral bus bar.
2. Connect the output from one side of the 2-pole circuit breaker to INPUT A on the module. Wire must be at least 4 inches (10.1 cm).
3. Connect the output from the remaining side of the 2-pole circuit breaker to INPUT B on the module. Wire must be at least 4 inches (10.1 cm).
4. Connect one side of a resistive load to Output A on companion module.
5. Connect the remaining side of the resistive load to Output B companion module.
6. Toggle CIRCUIT POWER switch to the ON position.
7. Apply power to the 30 amp 2-pole breaker.
8. To test, apply 120V AC between the neutral bus bar and the HOT (Clip) connection on the bottom of the module. The loads will switch on. Toggle the CIRCUIT POWER switches to AUTO and verify the loads switch off.



HELPFUL! Minimum sized wired that should be used for a 30 amp circuit is #10 AWG.