Technical Data

Effective September 2017

Z-Wave wireless master switch

Project Name:	Prepared By:
Project Number:	Date:
Catalog Number:	Type:

RF9501AW
Aspire series

RF9501DW
Decorator series

Description

Single pole, 3-way, 4-way
15A, 120V/AC, 60Hz, 1/2 HP
LED, CFL, incandescent, magnetic low-voltage, electronic low-voltage, fluorescent, halogen

Design features

- Compatible with Z-Wave accessory switch (RF9517) for wireless 3-way control eliminating the need for traditional 3-way wiring (up to 5 locations)
- Neutral wire required for installation
- Can be associated with up to 5 other devices
- Decorator and designer series products offer the same functionality with two distinct styles
- Electro-mechanical push button for ON/OFF operation
- Patented indicator system alerts if switch is not set up in the network
- Blue LED illuminates to indicate ON/OFF status
- Single button programming
- Programmable delayed OFF mode up to 4 minutes (default is 10 seconds)
- Child lockout feature
- All-ON/All-OFF inclusion
- Configurable "power ON state"
- Panic mode
- Rated for 1/2 HP motor loads

Table 1. Z-Wave wireless switch

Catalog No.	Description	Designer Color Suffix	Decorator Color Suffix
☐ RF9501_	Z-Wave 15A switch	AW, DS, SG, WS	DBK, DLA, DW

Compliances, specifications and availability are subject to change without notice.

Powering Business Worldwide

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Applications

The Z-Wave wireless 15A switch replaces regular switches or dimmers (where a neutral is present) to provide local and remote ON/OFF control for LED, CFL, incandescent, magnetic low-voltage, electronic low-voltage, and fluorescent lighting loads. The Z-Wave wireless switch provides other programmable functions (scenes, events, association, child lockout, etc.) when used with Z-Wave compliant controllers. Each switch can be manually and remotely controlled by commands sent from an Z-Wave controller or other Z-Wave compatible controllers.

Table 2. Specifications

Catalog No.	Switch RF9501
Performance	**Maximum Amperage:** 15A **Rating:** 120V/AC, 60Hz Uses 300 Series Z-Wave Chip @ 40Kbs
Performance Consideration	A Z-Wave enabled device must be within 60 feet of another Z-Wave enabled device to participate in a Z-Wave wireless mesh network. Any one dimmer or switch can be associated with up to 5 devices (dimmers, switches, receptacles, or plug-in modules)
Installation & Programming	Please reference the Instruction Sheet included with the product for wiring installation. For programming of the device, see the Z-Wave wireless switch User Manual, which is provided with compatible Z-Wave controller
Testing & Code Compliance	cULus Listed 244A. NOM Certified. Complies with FCC Part 15, Class B. Z-Wave Compliant Certified
Terminations	Switch has four 6" wire leads for line, load, ground and neutral
Material Characteristics	**Flammability:** Meets UL94 requirements; V2 rated **Temperature Rating:** 32°F to 104°F (0°C to 40°C)
Warranty	2-year limited product warranty

Table 3. Color Ordering Information

For ordering devices, include Catalog No. followed by the Color Suffix: AW (Alpine White), DS (Desert Sand), Silver Granite (SG), WS (White Satin), DBK (Decorator Black), DLA (Decorator Light Almond), DW (Decorator White).

Designer series color options:

(Alpine White) (Desert Sand) (Silver Granite) (White Satin)

Decorator series color options:

(Decorator Black) (Decorator Light Almond) (Decorator White)

Table 4. Device Configuration Parameters

Parameter	Description	Value range
1	Delayed OFF	*0 to 127 -128 to -1
2	Panic ON time	*0 to 127 -128 to -1
3	Panic OFF time	*0 to 127 -128 to -1
4	Basic set value	*0 to 127 -128 to -1
5	Power up state	1=OFF, 2=ON, 3=Last state
6	Panic mode enable	0=OFF, 1=ON
7	Not used	Not used

*The configuration value is a signed single byte number. This value may represent a value with no units or may represent a value such as time. 0 to 127 (decimal) represents 0 to 127 seconds of time. -128 to -1 (negative decimal numbers) represents 128 to 255 seconds as calculated by this formula.
Config value = desired time in seconds (or desired value) -256
For an example of 172 seconds: config value = 172 - 256 = -84 (decimal) or 0xAC (hex)
For Parameter 4 , this value is the value that will be sent in a Basic Set command as a result from association to another device.

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Table 5. Device Association Information

Association Groups for RF9501	
Group 1	5 nodes maximum
Group 2 - 254	0 nodes maximum
Group 255	1 node maximum

Product Dimensions

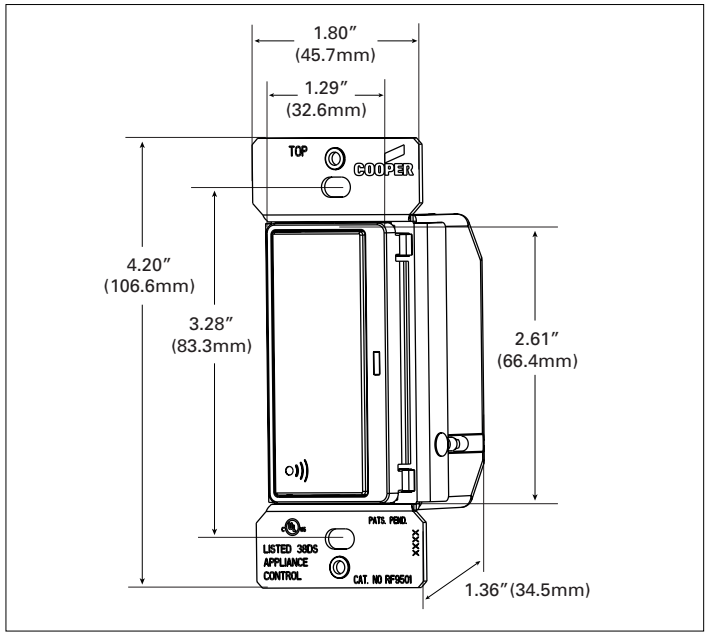
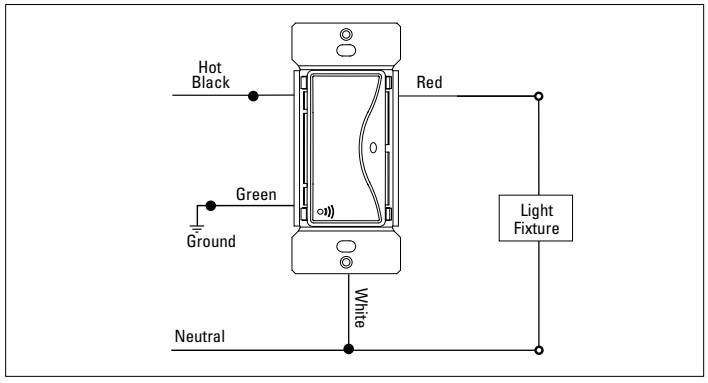
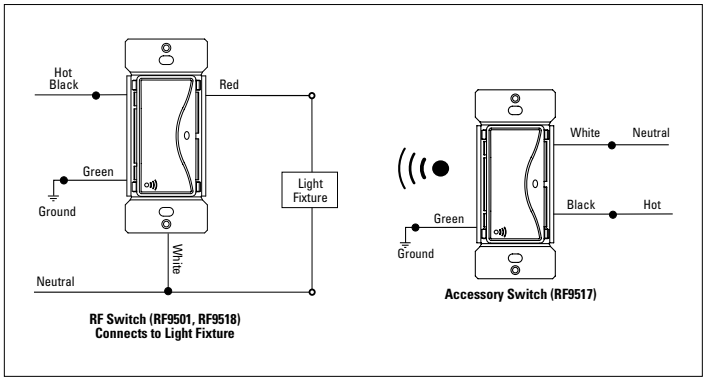


Figure 1. RF9501

Single-Pole Location Wiring Diagram



Multi-Location Wiring Diagram



Note: For multi-location control using the RF association function, use catalog no. RF9517.

Project Name:	Prepared By:
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Catalog Number:	Type:

Certifications & Compliances

Catalog No.	cULus	NOM 426	FCC
RF9501	•	•	•

KEY: cULus cULus NOM 426 NOM FCC FCC

Related Products

Z-Wave controllers

RFTDCSG, RFWC5WS

Z-Wave wireless products

RF9540-NDW, RF9517DW, RFTR9505-T

Aspire products

9566TRWS, 9544DS, 9521WS

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