

Z-Wave wireless accessory dimmer

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



RF9542-ZAW
Designer series



RF9542-ZDW
Decorator series

Description

3-Way or up to 5 locations
120V/AC, 60Hz

Design features

- Compatible with Z-Wave master dimmer (RF9540-N, RF9534, RF9536, RF9536-N, RF9537-N) for wireless 3-way control, eliminating the need for traditional 3-way wiring or dedicated traveller wires
- Requires neutral wire 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 pad for ON/OFF operation with separate DIM/BRIGHT bar
- Patented indicator system alerts if dimmer is not set up in the network
- LED reduces brightness when in the OFF state (nightlight feature)
- Seven step blue LED display alongside push pad indicates selected light level - even in full daylight (coordinates light level status with associated master dimmer)
- Programmable rapid and delayed fading (up to 4 minutes) (default is 10 seconds)
- Single button programming
- Adjustable ramp rate
- Child lockout feature
- All-ON/All-OFF inclusion
- Panic mode
- Pressing and holding push pad for 2 seconds brings light to full brightness without affecting preset levels

Table 1. Z-Wave wireless dimmer system accessory

Catalog No.	Description	Designer Color Suffix	Decorator Color Suffix
□ RF9542-Z_	Z-Wave accessory compatible only w/Z-wave dimmers	AW, DS, SG, WS	DBK, DLA, DW

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



Powering Business Worldwide

Effective September 2017

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Application

Z-Wave dimmers replace regular switches to provide local and remote ON/OFF/DIM/BRIGHT control. These are compatible with most common light types including LED, CFL, INC, HAL, FLR, ELV, and MLV loads. Z-Wave master dimmers provide other programmable features such as scenes, events, associations when used with Z-Wave compliant controllers.

Table 2. Specifications

Catalog No.	Wireless dimmer system accessory RF9542-Z
Performance	Rating: 120V/AC, 60Hz Uses 300 Series Z-Wave Chip @ 40Kbs
Performance Consideration	For best performance, 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 User Manual, which is provided with compatible Z-Wave controller
Testing & Code Compliance	cULus Listed 6B28 NOM Certified. Complies with FCC Part 15, Class B. Z-Wave Compliant Certified
Terminations	RF9542-Z has three 6" pre-stripped wire leads for line, neutral and ground
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:

AW	AW	DS	DS	SG	SG	WS	WS
(Alpine White)		(Desert Sand)		(Silver Granite)		(White Satin)	

Decorator series color options:

DBK	DLA	DW
(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	Not used
3	Panic OFF time	Not used
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	Dimmer ramp time	*0 to 127 -128 to -1

*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 RF9542-Z

Group 1	5 nodes maximum
Group 2 - 254	0 nodes maximum
Group 255	1 node maximum

Product Dimensions

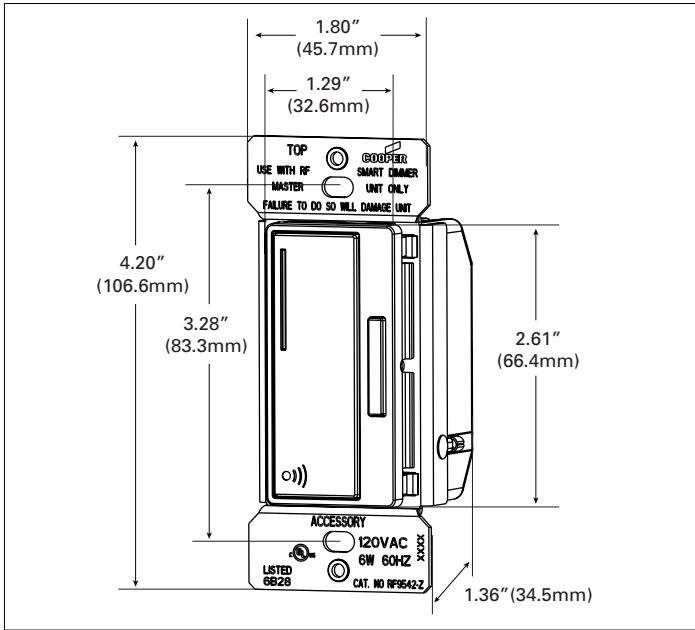
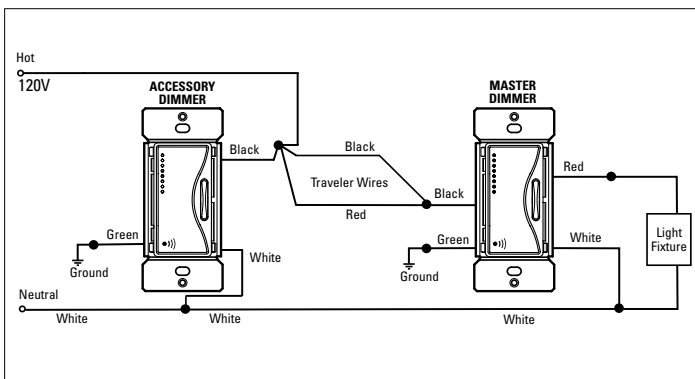


Figure 1. RF9542-Z

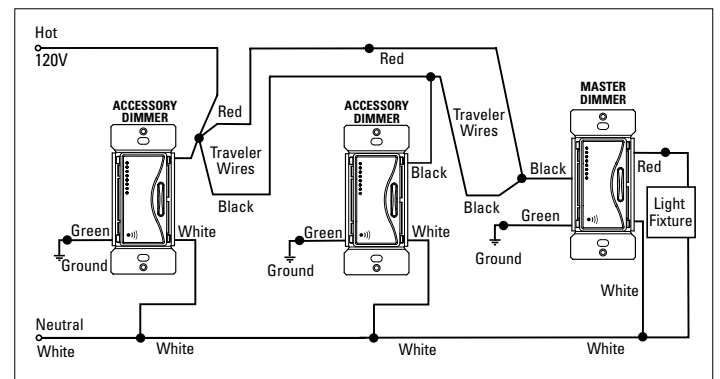
3-Way Location Wiring Diagram



Note: For multi-location control, use RF smart dimmer masters direct wired to light along with RF accessory. The RF accessory does not require direct connections to the light (use Z-Wave association function).

Note: The accessory and master don't need to share hot or be connected through 3-wire wires.


4-Way Location Wiring Diagram



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Certifications & Compliances

Catalog No.		
RF9542-Z	•	•

KEY:  cULus  NOM

Related Products

Z-Wave controllers



RFTDCSG, RFWC5WS

Z-Wave wireless products



RF9540-NDW, RF9501DW, RFTR9505-T

Aspire products



9566TRWS, 9544DS, 9521WS

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