Aspire RF smart dimmer system accessory

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 for smart dimmer system accessory

- Compatible with Aspire RF 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. Aspire RF smart dimmer system accessory

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

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



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Applications for smart dimmer system accessory

Aspire RF accessory dimmers replace regular switches or dimmers to provide local and remote ON/OFF/DIM/BRIGHT control. The device also provides multi-location control or virtual 3-way remote ON/OFF/DIM/BRIGHT control without the need for traditional 3-way wiring or a dedicated traveller wire. Aspire RF accessory dimmers provide other programmable functions (scenes, events, association, child lockout, etc.) when used with Aspire RF or other Z-Wave® compliant controllers*. Each dimmer can be manually and remotely controlled by commands sent from an Aspire RF controller (RFTDCSG, RFHDCSG, RFTCP) or other Z-Wave compatible controllers or programs. Aspire RF dimmers utilize existing 120 V/AC 60Hz standard house wiring and fit into standard wallboxes. Neutral wire required for installation. No new wiring needed. *Note: some specific Aspire RF features may not be programmable.

Table 2. Specifications

Catalog No.	Smart dimmer system accessory RF9542-Z
Performance	Rating: 120V/AC, 60Hz Uses 300 Series Z-Wave Chip @ 40Kbs
Performance Consideration	For best performance, an Aspire RF 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 Aspire RF User Manual, which is provided with either the handheld (RFHDCSG) or tabletop (RFTDCSG) controllers and are also accessible online at www.cooperwiringdevices.com/AspireRF
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:

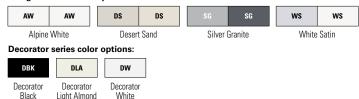


Table 4. Device Configuration Parameters

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=0FF, 2=0N, 3=Last state
6	Panic mode enable	0=0FF, 1=0N
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

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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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Catalog Number:	Туре:

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

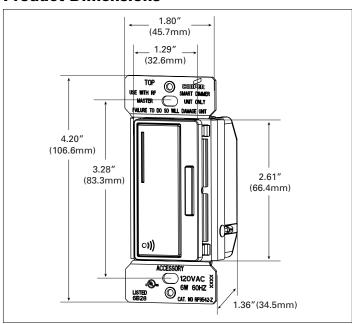
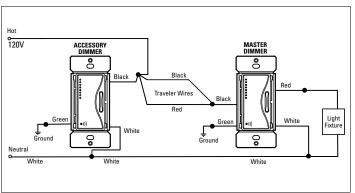
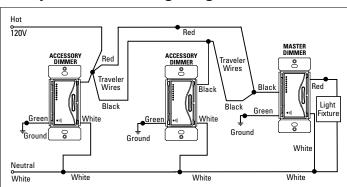


Figure 1. RF9542-Z

3-Way Location Wiring Diagram



4-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 RF association function).

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Certifications & Compliances

Catalog No.	c(UL)us	HOM 426
RF9542-Z	•	•

□ cULus NOM NOM KEY:

Related Products

Aspire RF controllers











RF9540-NDW, RF9501DW, RFTR9505-T













9566TRWS, 9544DS, 9521WS

RFHDCSG, RFTDCSG, RFWC5WS

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