

Aspire RF smart dimmer system masters

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



RF9536-NAW
Designer series



RF9537-NDW
Decorator series

Description

Single pole, 3-way, 4-way
120V/AC, 60Hz
Incandescent, magnetic low-voltage,
electronic low-voltage, fluorescent

Design features for smart dimmer system masters

- Compatible with Aspire RF accessory dimmer (RF9542-Z) for wireless 3-way control, eliminating the need for traditional 3-way wiring or dedicated traveller wires
- Neutral wire required for installation
- Can be associated with up to 5 other devices
- Air-gap switch disconnects power from load forcing an OFF condition
- Decorator and designer series products offer the same functionality with two distinct styles
- Patented indicator system alerts if dimmer is not set up in the network
- RF9537-N is configurable to work with Advance Mark 10®, Ambistar® and Lutron Tu-wire® dimmable ballasts
- Electro-mechanical push pad for ON/OFF operation with separate DIM/BRIGHT bar
- Seven step blue LED display alongside push pad indicates selected light level and reduces brightness when OFF (nightlight feature)
- Programmable rapid and delayed fading up to 4 minutes (default is 10 seconds)
- Single button programming
- Adjustable ramp rate (up to 4 minutes)
- Child lockout feature
- Pressing and holding push pad for 2 seconds brings light to full brightness without affecting preset levels

Table 1. Aspire RF smart dimmer system masters

| Catalog No. | Description | Compatible Lamp Types | Watts | Designer Color Suffix | Decorator Color Suffix |
|------------------------------------|--------------|-------------------------------------|-------|-----------------------|------------------------|
| <input type="checkbox"/> RF9536-N_ | Smart dimmer | Incandescent, magnetic low voltage | 1000 | AW, DS, SG, WS | DBK, DLA, DW |
| <input type="checkbox"/> RF9537-N_ | Smart dimmer | Electronic low voltage, fluorescent | 1000 | 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 masters

Aspire RF dimmers replace regular switches to provide local and remote ON/OFF/DIM/BRIGHT control and are compatible with incandescent, magnetic low-voltage, electronic low-voltage, and fluorescent lighting loads. Aspire RF 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 masters RF9536-N, RF9537-N |
|---------------------------------------|---|
| Performance | Rating: 120V/AC, 60Hz Derating is required in multi-gang installations (See Multi-unit installation chart listed below) Uses 300 Series Z-Wave Chip @ 40Kbs |
| Performance Consideration | 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 | Dimmers have four 6" pre-stripped 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. Multi-Unit Installation Chart

| Catalog No. | 1-Gang | 2-Gang | 3 or more Gangs |
|-----------------|------------------|-----------------|-----------------|
| RF9536-N | 1000W (MLV-750W) | 800W (MLV-600W) | 800W (MLV-600W) |
| RF9537-N | 1000W | 800W | 800W |

Table 4. 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 |

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Table 5. 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 | 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.

Table 6. Device Association Information

| Association Groups for RF9536-N, RF9537-N | |
|---|-----------------|
| Group 1 | 5 nodes maximum |
| Group 2 - 254 | 0 nodes maximum |
| Group 255 | 1 node maximum |

Product Dimensions

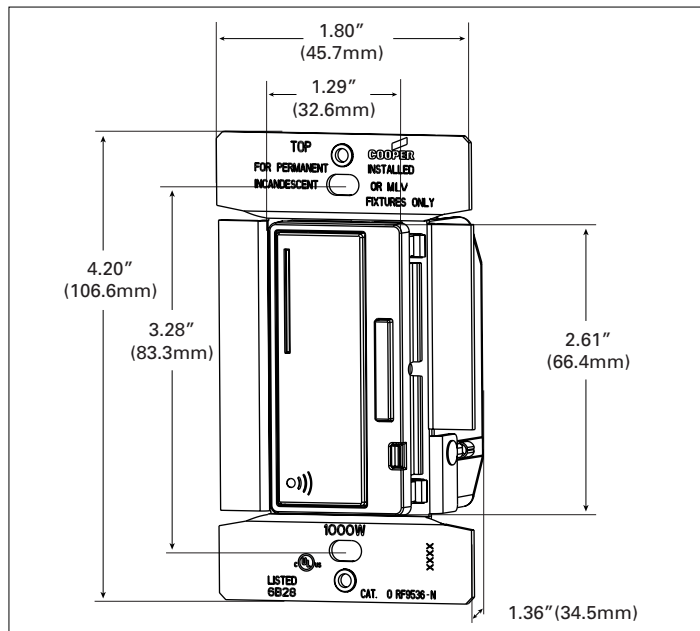
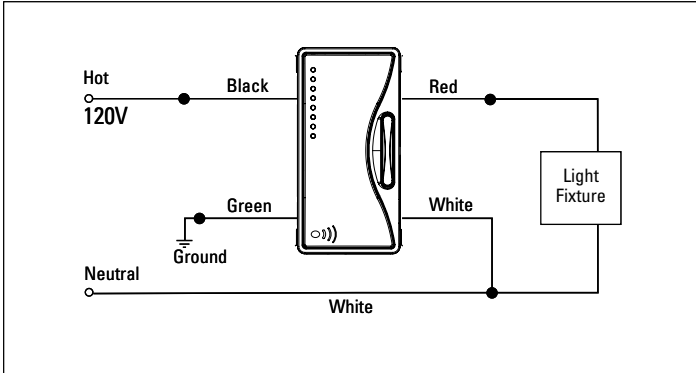


Figure 1. RF9536-N, RF9537-N

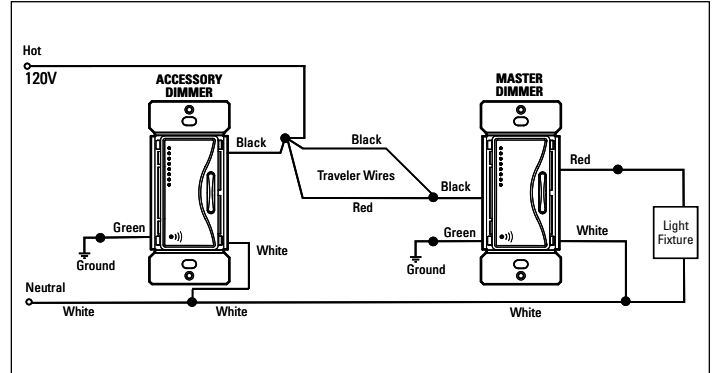
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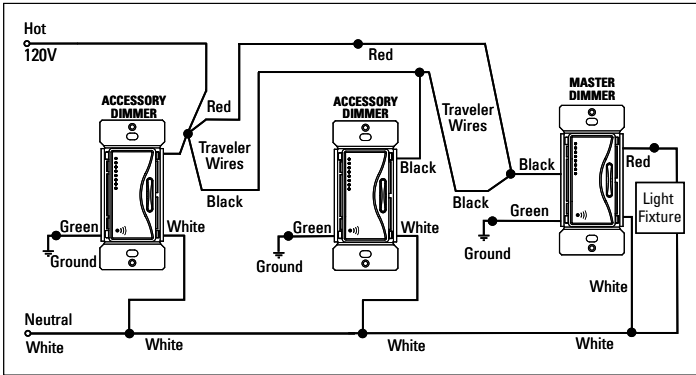
Single-Pole Location Wiring Diagram



3-Way Location Wiring Diagram



4-Way Location Wiring Diagram



Note: Accessory dimmer in diagram is RF9542-Z.
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).

Certifications & Compliances

| Catalog No. | cULus | NOM 426 | FCC |
|-------------|-------|---------|-----|
| RF9536-N | • | • | • |
| RF9537-N | • | • | • |

KEY: cULus cULus NOM 426 NOM 426 FCC FCC

Related Products

Aspire RF controllers



RFHDCSG, RFTDCSG, RFWC5WS

Aspire RF products



RF9542-ZDW, RF9501DW, RFTR9505-T

Aspire products



9566TRWS, 9544DS, 9521WS

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