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Lumina™ RF Decora® Wall Switch Room Controller with 5A Relay
For Use with Lumina™ RF Standalone Room Control System

Description

The Lumina™ RF Decora® Room Controller with 5A Relay (DL05S) is the primary user interface for a Lumina RF Standalone Room Controller System, combining both familiar ON/OFF and energy management business logic into line voltage-powered wireless communication devices. The DL05S manages a room by coordinating activities of all Lumina RF Standalone devices within the space and can be used to control loads up to 5A.

Lumina RF Wireless Room Control System

The DL05S works with compatible Lumina RF Standalone devices to create an advanced intelligent lighting system that can be used to comply with IECC, ASHRAE 90.1, and 2019 Title 24, Part 6 occupancy/vacancy sensing, and daylight harvesting requirements.

Dimming, multi-zone daylight harvesting, occupancy and vacancy sensing, manual control, and scene control are configured using the Bluetooth®-enabled Lumina RF Standalone App.

The DL05S also provides the primary interface between the smartphone/tablet commissioning and control device and the Lumina RF Standalone system. Wirelessly configure, control, monitor and provision the Lumina RF Standalone System using the Bluetooth®-enabled Lumina RF Standalone App designed for an Android or iOS smart phone and other compatible devices within a 30' range.

Applications

- 0-10V phase cut dimming and switching and fixtures when combined with appropriate load control devices
- Daylight harvesting with occupancy and light level sensing with optional LURPC Photocell
- Room entry stations or remote (3-way) switch for use at other entry doors
- Coordination of Lumina RF Standalone energy management devices in a space
- Control of approved ZigBee-enabled lamps and fixtures by other manufacturers. Contact factory for details.
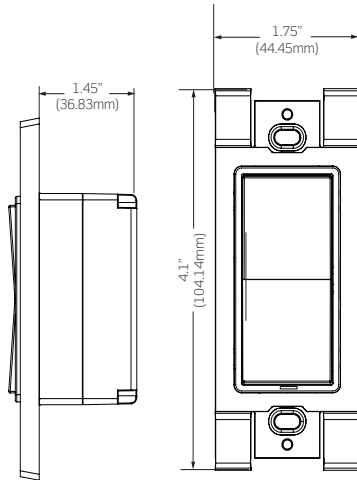
Features

- Bluetooth interface for connection to any Android or iOS devices with Bluetooth 4.0 with BLE—download the Lumina RF Wireless App at Google Play or the Apple App Store
  - Configuration
  - Control
  - Status monitoring
- Every node is a repeater
- Line voltage powered
- Implements energy management business logic for Lumina RF Wireless devices
- Decora aesthetic
- LED status indicators
- Complies with IEEE 80.15.4 standards—for domestic and international wireless networks
- Can be used to comply with IECC, ASHRAE 90.1, and 2019 Title 24, Part 6 space/area control, dimming, manual-ON/OFF, occupancy control and automatic shutoff requirements
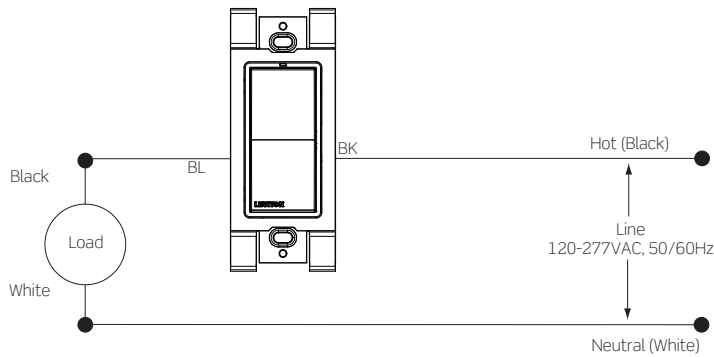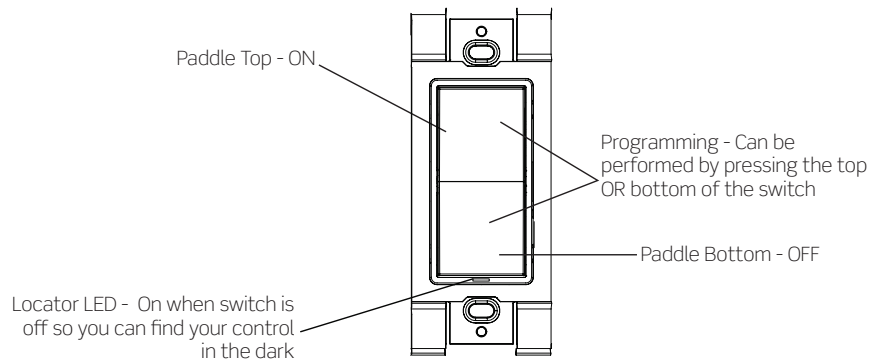
Product Data
DL05S-D0Z

Dimensions Diagram

1.45"
(36.83mm)

1.75"
(44.45mm)

4.1"
(104.14mm)

Wiring Diagram

Black

BL

BK

Hot (Black)

Load

Line
120-277VAC, 50/60Hz

White

Neutral (White)

User Interface

Paddle Top - ON

Programming - Can be
performed by pressing the top
OR bottom of the switch

Paddle Bottom - OFF

Locator LED - On when switch is
off so you can find your control
in the dark

Lumina RF Wireless Compatibility Chart

Lumina RF Wireless Room Control System*		
Room Controllers*		DLDNK-01W | DLDNK-02W | DLDNK-04W | DLDNK-08W Lumina RF Keypad Room Controllers*
		DL05S-D0Z Lumina RF Decora® Wall Switch Room Controller with 5A Relay
		DL057-D DL057-30Z Lumina RF Decora® 0-10V Dimming Room Controller with 5A Relay
Compatible Products**		
Load Control Devices		LU20S-DNW Wireless 20A ON/OFF Switching Power Pack
		LU107-DNW Wireless 10A 0-10V Dimming Power Pack
		LU04P-1NW Wireless 800W Phase Cut Dimming Power Pack
ON/OFF Switch		ZS10S-D0Z Wireless ON/OFF Decora® Wall Switch
0-10V Dimmer		ZS057-D0Z | ZS057-30Z | ZS057-ALZ Wireless 0-10V Decora® Wall Dimmer
1000W Dimmer		DL1KD-1BZ Lumina RF 1000W Full Phase Dimmer
Receptacle		ZSTLR-1HW Wireless Controlled Receptacle
Occupancy Sensors		ZSC04-INW | ZSC15-INW Wireless PIR Occupancy Sensors
Photocells		LURPC-01W Wireless Photocell
Configurator Tool		Lumina RF Standalone App Download via Google Play or Apple App Store

*Room Controllers can also be used as Remote Keypads for multi-way switching
**Not compatible with other Lumina RF Gateway products. Contact Leviton for more information.

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Specifications

Electrical	
Input Voltage	120-230-277VAC , 50/60 Hz
Input Current	120V: Standby 0.2W, Max 0.5W + load current; 277V: Standby 0.3W, Max 0.6W + load current
Load Rating	LED, CFL, Electronic Ballast @ 120V,277: 8A LED, CFL, Electronic Ballast @ 277V: 8A Magnetic Ballast @ 120V: 10A Magnetic Ballast @ 277V: 10A Resistive Tungsten @ 120V: 6.67A Resistive Tungsten @ 277V: 6.67A
Motor Load	1/4 HP 120VAC, 1/3 HP @277VAC
Radio Frequency	2.4 GHz wireless mesh network
Network Connections	IEEE 802.15.4, 2.4GHz, wireless, mesh network up to 75' range between devices
Environmental	
Operating Temperature Range	32° to 104° F (0° to 40° C), 0-90% non-condensing humidity
Storage Temperature Range	-40° to 185° F (-40° to 85° C)
Relative Humidity	0 to 90% non-condensing, for indoor use only
Other	
Energy Codes	Can be used to meet energy code requirements for IECC, ASHRAE 90.1 and 2019 Title 24, Part 6 space/area control, dimming, manual-ON/OFF, occupancy control and automatic shutoff requirements
Listings	FCC certified for wireless communication; (U.S.) IC Certified (Canada); FCC ID: 2ASLN-DL057; IC: 25037-DL057, IP30, UL Certified, NOM Listed
Dimensions	4.1" x 1.75" x 1.45" (104.14mm x 44.45mm x 36.83mm)
Weight	0.25 lbs (0.11kg)
Warranty	2-Year Limited

Ordering Information

Product Name	
Cat. No.*	**Description**
DL05S-D0Z	Lumina RF Decora Wall Switch Room Controller with 5A Relay, 120-277VAC, 50/60Hz, 5A Load, Color: White, Light Almond, Ivory
DDKIT-0Sx	Decora Color Change Kit

* Replace x to indicate color: (W) = White, (I) = Ivory, (T) = Light Almond, (G) = Gray (R) = Red, (E) = Black