

LevNet RF™ Self-Powered Wireless Solutions

Decora® Rocker 902MHz Wall Switch Receivers



WSS20

BASIC OPERATION

The Leviton line of LevNet RF™ Decora® Rocker 902MHz Wall Switch Receivers works in conjunction with EnOcean-enabled Self-Powered 902MHz Wireless Lighting Control Products to provide an optimal solution for retrofit lighting needs. These wireless products combine Leviton's switching technology with self-powered and wireless technologies, developed and licensed from EnOcean®. The Wall Switch Receivers can be installed in place of traditional single-pole wall switches and fits in a standard single-gang wall box. No additional wiring is required.

These components are compatible with incandescent, fluorescent and low-voltage lighting. The EnOcean Receiver responds to signals from the EnOcean transmitters switching the relay (controlling the load) on or off. The Wall Switch Receivers feature a rocker (return-to-neutral) manual switch that can be used to toggle the ON/OFF status of the light load.

FEATURES

- LevNet RF Decora Rocker 902MHz Wall Switch Receivers fit in a standard singlegang wall box
- No new wires required, product utilizes existing A/C and load wiring
- Compatible with incandescent, fluorescent and low-voltage lighting
- Compatible with electronic and magnetic ballasts
- Simple, fast installation, replace existing light switch and pair/learn a self-powered transmitter switch or sensor in under 10 minutes
- Decorator style wall switch utilizes the Leviton Decora Rocker return-to-neutral design
- Non-neutral Wall Switch Receiver (25 Watt minimum load)



APPLICATIONS

Leviton's line of LevNet RF products are the ideal solution for energy saving and efficient lighting retrofits and new construction. Installation is quick and easy with no additional wiring required. Simply replace the existing wall switch with Leviton's RF Wall Switch Receivers, pair it with a selected Self-Powered Remote Switch or RF PIR Occupancy Sensor and the installation is complete.

The RF Wall Switch Receivers are used for multiple loads when flexibility is desired in design for all Transmitters – Rocker, Momentary and Toggle.

- Retrofits
- Conference rooms
- Lounges
- Executive offices
- Daycare facilities
- New construction
- Classrooms
- Private offices
- Restrooms
- Multimedia areas
- Three-way switch application (WSS0S-P Wireless Remote Switch)
- Bi-level lighting or A/B switching

Product Compatibility

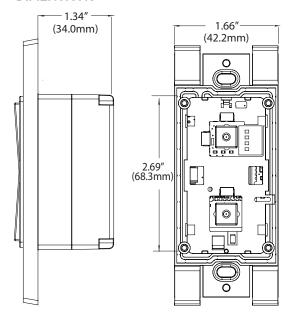
 EnOcean-enabled Transmitter Switches and Occupancy Sensors - WSS20, WSWDR, WSCxx

FEATURES

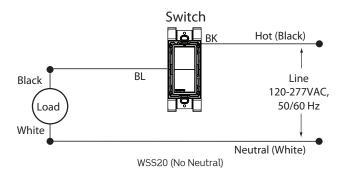
- No New Wiring Required: the RF Wall Switch Receivers simply replaces the existing light switch and then communicates with self-powered switches and sensors via radio frequency.
- Manual ON/OFF Switching: provides pushbutton manual-ON/OFF light switching of each light load at any time.
- Maximize Energy Savings: when paired with RF PIR Occupancy Sensor, RF Wall Switch contains all sensor settings. Manual-ON/Auto-ON, Auto-ON/Auto-OFF, Walk Through Timer, Auto Time-Out selections of 2 minutes for testing, 10, 20 or 30 minutes. Allows flexibility and customized adjustments to maximize energy savings.
- Presentation/Viewing Mode: turn lights OFF and keep them OFF while room is occupied (i.e.: for slide or film presentations) automatically returns to normal when manually switched back ON or room becomes vacant and time delay expires.
- Walk-Thru Feature: maximizes energy savings by assuring a 2 .5 minute time-out if motion is not present after 2 minutes in Auto-ON mode.
- Standard Size for Seamless Installation: RF Wall Switch Receiver fits in a standard single gang wall box. a
- True Zero-Cross Relay: switches at the zero crossing point of the AC power curve to ensure maximum contractor life and compatibility with electronic ballasts.
- All Digital Circuitry: uses minimum components for maximum reliability and low cost.
- Energy Savings and Efficiency: lowest power consumption of any RF device less than 1/2W per 120V device and less than 3/4W per 277V device annually approximately 70% savings over other RF devices.
- Air Gap Switch: assures A/C power disconnects for safety.
- Color Change Kits: (white, ivory and light almond) included for design flexibility, ease of ordering, inventory and cost control.
- 10A load rating: for commercial lighting circuits.
- **EnOcean technology enabled** for RF communication from Self-Powered Lighting Controls.
- H.I.S (High In-Rush Stability): arcing design for use with all commercial ballasts.
- Retrofit Energy Saving Bi-level Lighting with Occupancy Sensor Control: replace two light switches with RF Wall Switch Receivers, pair both with Self-Powered RF PIR Sensor, set the first RF Wall Switch to Auto-ON/Auto-OFF and the second to Manual-ON/Auto-OFF.



DIMENSIONS



WIRING DIAGRAM



SPECIFICATIONS

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ELECTRICAL	
Input Voltage	120-230-277VAC
Output Channels	Form C Latching Relay
Operational Frequency	60Hz
Power Consumption	120V < 1/2 Watt 277V < 3/4 Watt
Communication Frequency	902Mhz
Memory	Stores up to 20 Transmitter IDs
Range	150 feet maximum
Button Pairing Modes	Rocker, Momentary and Toggle
Vacancy Confirmation	30 seconds
Load Rating	Incandescent: 800W @ 120V Fluorescent Ballasts: 1200VA @ 120V, 2700VA @ 277V Motor: 1/4 HP Load @ 120V 25W minimum load required
Wire Designation	Line-Black, Load-Blue
ENVIRONMENTAL	
Operating Temperature Range	32°F to 104°F (0°C to 40°C)
Storage Temperature Range	32°F to 104°F (0°C to 40°C)
Relative humidity	0% to 95%, non-condensing
Usage	Indoors only
OTHER	
Listings	CA Title 24 compliant, ETL/cETL Listed to: UL508, CAN/CSA C22.2 #14 FCC Certified for wireless communication
Warranty	Limited 5-year
CAT. NO.*	DESCRIPTION
WSS20-G9N	LevNet RF wire-in receiver switch, Decora Rocker, 10A relay, Dip switches for Auto ON/Auto OFF, Manual ON/Auto OFF, Walk- through mode, Repeater Disabled, Time delay (2/10/20/30m), Range=30'-130', Radio Frequency 902MHz
WSS20-N9N	LevNet RF wire-in receiver switch, Decora Rocker, 10A relay, Dip switches for AutoON/ AutoOFF, ManualON/AutoOFF, Walk-through mode, Repeater Disabled, Time delay (2/10/20/30m), Range=50'-150', Radio Frequency 902MHz
WSS20-G9U	Wireless, push on/off, wire-in receiver switch, Vizia style, 10A relay, Advanced pairing with all transmitters, Dip switches for Auto ON/Auto OFF, Manua ION/Auto OFF, Walk-through mode, Time delay (2/10/20/30m), Range=30'-130', Radio Frequency 902MHz, EnOcean protocol, 120/208/220/230/240/277v; 50/60Hz, 1-pole, No Neutral
WSS20-N9U	Wireless, push on/off, wire-in receiver switch, Vizia style, 10A relay, Advanced pairing with all transmitters, Dip switches for Auto ON/Auto OFF, Manual ON/Auto OFF, Walk-through mode, Time delay (2/10/20/30m), Range=50'-150', Radio Frequency 902MHz, EnOcean protocol, 120/208/220/230/240/277v; 50/60Hz, 1-pole, With Neutral

^{*}All WSS20 models ship with the Color Change Kit – includes a White, Ivory and Light Almond Faceplate.

NAFTA and Made in USA models available.



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