WIRELESS RECEPTACLE CONTROLS FOR DLM

WRC SERIES

Controls plug loads to meet new energy code requirements

Transmits occupancy sensor status to controlled receptacles

Plugs to other Digital Lighting Management (DLM) components for simple installation

Binding buttons provide convenient On/Off override and testing capability

Simple retrofit solution works with new or existing line voltage wiring

Choice of 15A or 20A receptacles

RoHS

DESCRIPTION

Wireless Receptacle Controls facilitate occupancy-based Auto-On/Auto-Off control of plug loads without the need to wire receptacles to room controllers. A WRC transmitter works with WRC RF-enabled relay-controlled receptacles.

OPERATION

The WRC-TX-LM operates on Class 2 power supplied to a DLM local network by one or more room controllers, and connects via an RJ45 connector on a 6" pigtail. It transmits On/Off signals from all DLM occupancy sensors connected to the local network to all bound receptacles. A relay in each WRC receptacle switches the controlled outlet(s) in response to the transmission. One transmitter can be bound to up to 16 WRC receptacles, each with one or two controlled outlets. In addition, each WRC receptacle has feed thru capability for downstream control of additional outlets.

ON/OFF/BINDING BUTTONS

The control button on the WRC receptacle works to toggle the relay On and Off before the WRC-TX-LM transmitter is installed, so the receptacles can be tested and used as soon as they are installed. The button on the transmitter serves as a remote On/Off control. Both buttons are also used to bind the products to one another.

APPLICATIONS

Wireless Receptacle Controls provide easy-to-install code compliant control for plug loads in DLM controlled rooms including private offices, conference rooms, copy rooms and computer classrooms where the design intent is to have all controlled receptacles turn on and off in response to all connected occupancy sensors. In other spaces, such as open offices, use DLM Plug Load Room Controllers to provide control of selected receptacles in response to selected occupancy sensors, or to provide Manual-On control of receptacles.

FEATURES

RF Transmitter (WRC-TX)

- Works with all DLM occupancy sensors
- Digital Lighting Management components plug together on a free-topology Category 5e DLM local network
- Two mounting options for convenient installation in acoustic tile or to other surfaces
- Operates in quiet 915 MHz band to avoid interference
- LED indicator communicates status during binding
- The product meets the materials restrictions of RoHS

RF Receptacles (WRC Series)

- Choice of 15A or 20A rating
- Duplex receptacles with a choice of one or two controlled outlets
- Labeling meets NEMA requirements for controlled receptacles
- LED indicator communicates status during binding
- The product meets the materials restrictions of RoHS

PROJECT		LOCATION/ TYPE	

SPECIFICATIONS

RF Transmitter

- Input voltage: 24VDC from DLM local network
- Current consumption: 3mA
- DLM local network connection: 1 RJ45 port via RJ45 plug and coupler (included)
- Mounts to acoustic tile or hard surface
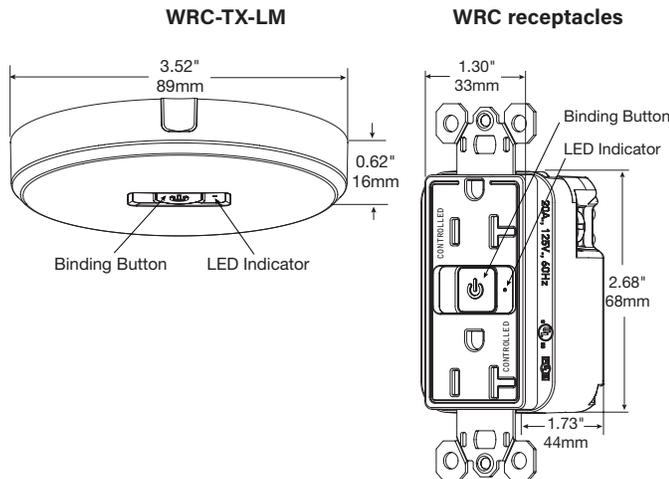- FCC Part 15 compliant

Controlled Receptacles

- Operating voltage: 125VAC
- Load rating: 15A (WRC-15) or 20A (WRC-20)
- Auto ground strap construction
- Terminals for power feed-through

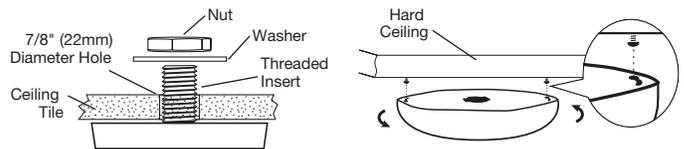### RF System (Transmitter and Receptacles)

- NEMA-approved labeling for controlled receptacles
- Frequency: 915 MHz band
- Communication range: 30' in obstructed application; up to 150' with clear line of sight
- One transmitter can bind to up to 16 controlled duplex receptacles
- Operating conditions; for indoor use only
- UL and cUL listed
- Five year warranty

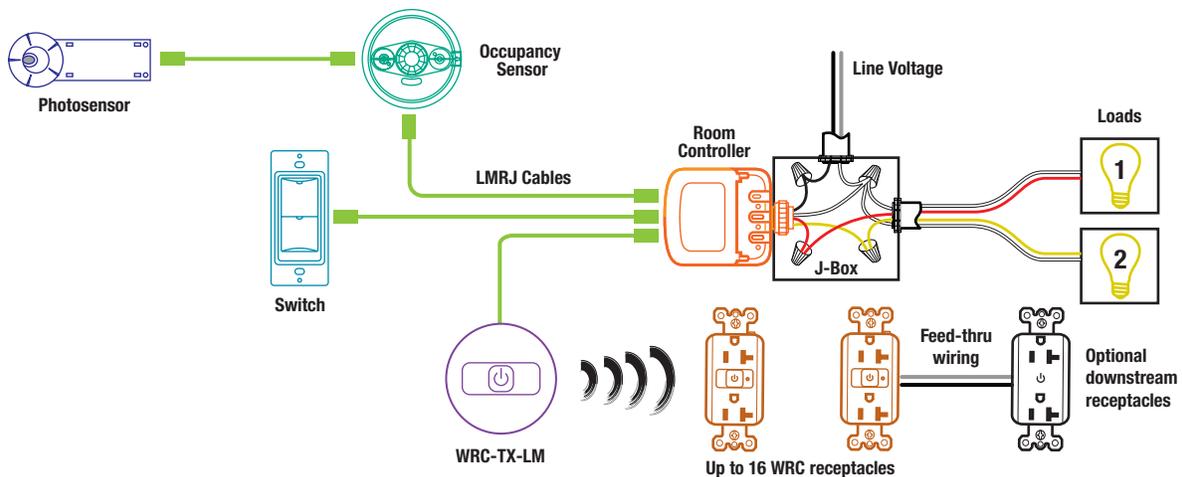## DIMENSIONS & INSTALLATION

Dimensions

WRC-TX-LM

3.52"
89mm

0.62"
16mm

Binding Button   LED Indicator

WRC receptacles

1.30"
33mm

Binding Button

LED Indicator

CONTROLLED

20A, 125V, 60Hz

CONTROLLED

2.68"
68mm

1.73"
44mm

Mounting Options

Nut
7/8" (22mm)
Diameter Hole   Washer

Ceiling
Tile   Threaded
Insert

Hard
Ceiling

The WRC-TX-LM is designed to mount either in an acoustic tile or on a hard surface

Connecting to DLM Local Network

Photosensor

Occupancy
Sensor

LMRJ Cables

Switch

Room
Controller

Line Voltage

J-Box

Loads

1

2

Feed-thru
wiring

Optional
downstream
receptacles

WRC-TX-LM

Up to 16 WRC receptacles

L legrand

ORDERING INFORMATION

Catalog #		Color	Description
☐	WRC-TX-LM	White	RF transmitter for DLM
☐	WRC-15-1-W	White	15A duplex receptacle, half controlled
☐	WRC-15-1-LA	Light Almond	
☐	WRC-15-1-I	Ivory	
☐	WRC-15-1-G	Gray	
☐	WRC-15-1-B	Black	
☐	WRC-15-2-W	White	15A duplex receptacle, fully controlled
☐	WRC-15-2-LA	Light Almond	
☐	WRC-15-2-I	Ivory	
☐	WRC-15-2-G	Gray	
☐	WRC-15-2-B	Black	

Catalog #		Color	Description
☐	WRC-20-1-W	White	20A duplex receptacle, half controlled
☐	WRC-20-1-LA	Light Almond	
☐	WRC-20-1-I	Ivory	
☐	WRC-20-1-G	Gray	
☐	WRC-20-1-B	Black	
☐	WRC-20-2-W	White	20A duplex receptacle, fully controlled
☐	WRC-20-2-LA	Light Almond	
☐	WRC-20-2-I	Ivory	
☐	WRC-20-2-G	Gray	
☐	WRC-20-2-B	Black	

Cover plate not included. Matching receptacles with NEMA-approved controlled labeling are available from Pass & Seymour.

designed to be better®