



LEVITON[®]

Applications Cookbook
Lumina™ RF Wireless Room Controls

Version 3.0

FOR REFERENCE ONLY

LUMINA™ RF WIRELESS ROOM CONTROLS COOKBOOK NOTES

1. Refer to manufacturer's data sheets and installation instructions prior to installation
2. Line feed 120/230/277 VAC, 60 Hz
3. Ground not shown, ground devices per applicable national and local codes are best practices
4. For emergency power situations, illustrations assume transfer switch by others upstream of shown devices
5. Line voltage load not to exceed contact rating per device specifications
6. Power packs receiving separate feeds for switched loads and self power must have both feeds on the same phase
7. All low voltage devices consume current. Device power budget is estimated for these details—additional power sources may be required. See product literature for power specifications
8. Maximum run length for analog wiring is 1000' @ #18 AWC
9. Sensors wired in parallel will cause line voltage relay closure when occupancy is detected by any unit
10. Devices in series requiring contact closure from a single device (clock input, demand response, emergency, etc.) must follow these wiring conventions:
 - First device in sequence provides the +V to the triggering relay
 - Signal from closure attached to all devices in sequence input
 - Com from first device in sequence attached to com on all devices in sequence
11. Ultrasonic ceiling mount sensors should be located a minimum of six (6) feet from HVAC supply/return vents
12. Trough-mounted and pendant-mounted indirect lighting sources affect the operation of locally mounted sensors. Contractor is responsible for adjusting sensor locations to allow for proper operation

13. Contractor is responsible for proper sensitivity and time delay settings for non-adaptive products, following the manufacturer's recommended placement, and field verification of circuits with respect to power pack placement
14. Contractor is responsible for coordinating the operational options of sensors and power packs with the specific work requirements
 - Work relevant energy code requirements affect circuits to be controlled and their control characteristics
 - One power pack is required for each controlled circuit
 - Refer to power pack data sheet for power output and installation guide for maximum number of sensors connected to a power pack
 - If multiple circuits are to be controlled by a sensor, auxiliary relays may be used in conjunction with a power pack
15. Ceiling sensors mounted over doorways should be placed one (1) foot inside the threshold
16. Up to 100 Mark VII style ballasts may be controlled per daylighting zone by IRC
17. All relays shown in de-energized state
18. Individually cap off unused leads
19. One-line parenthesis use:
 - (X) Function
 - [#] Terminal
20. Plug load control—commercial receptacle P/Ns:
 - STANDARD DUPLEX:
 - Split control (1 outlet) CR015-1Px, CR020-1Px
 - Full control (2 outlets) CR015-2Px, CR020-2Px
 - DECORA®:
 - Split control (1 outlet) 16252-1Px, 16352-1Px
 - Full control (2 outlets) 16252-2Px, 16352-2Px

ABBREVIATIONS:

LC	LumaCAN
LV	Low voltage
HV	High voltage switch (maintained)
LVM	Low voltage switch (momentary) Equal to Leviton 1081 (toggle) OR Leviton 56081 (Decora)
LVT	Low voltage switch (maintained) Equal to Leviton 12021-2 (toggle) or Leviton 56021-2 (Decora)
LV2	IRC low voltage switch
UON	Unless otherwise noted
BLK	Black
WHT	White
BLU	Blue
YEL	Yellow
ORG	Orange
VIO	Violet
BRN	Brown

SYMBOLS:

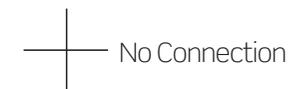
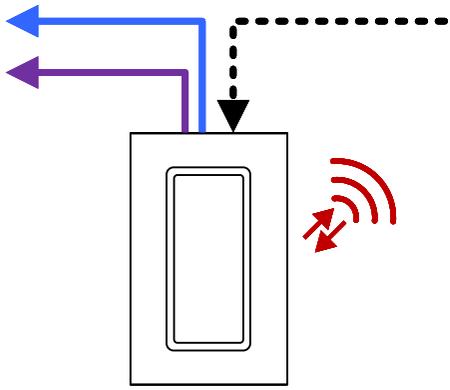


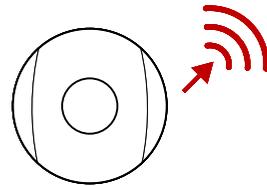
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LUMINA RF WIRELESS SWITCHING CONTROL WITH OCCUPANCY SENSING, TYPICAL

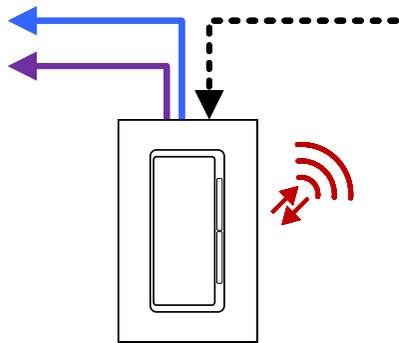


DL05S-D0Z

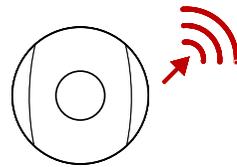


ZSC04-INW

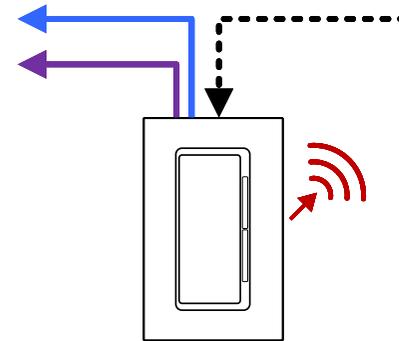
LUMINA RF WIRELESS 0-10V DIMMING WITH OCCUPANCY SENSING AND MULTI-LOCATION CONTROL, TYPICAL



DL057-D0Z
5A, 0-10V Dimmer
Room Controller

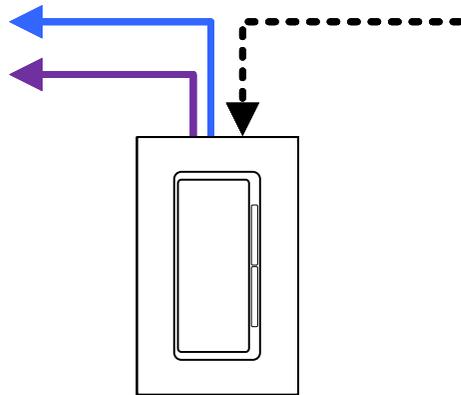


ZSC15-INW
Wireless PIR
Occupancy Sensor
1500 sq. ft.
(as required for
adequate coverage)



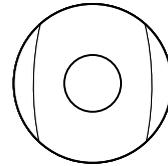
ZS057-D0Z
5A, 0-10V Dimmer
(as needed for
multi-location control)

LUMINA RF WIRELESS 0-10V DIMMING WITH OCCUPANCY SENSING AND DAYLIGHT HARVESTING, TYPICAL



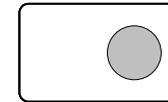
DL057-D0Z

5A, 0-10V Dimmer
Room Controller



ZSC04-INW

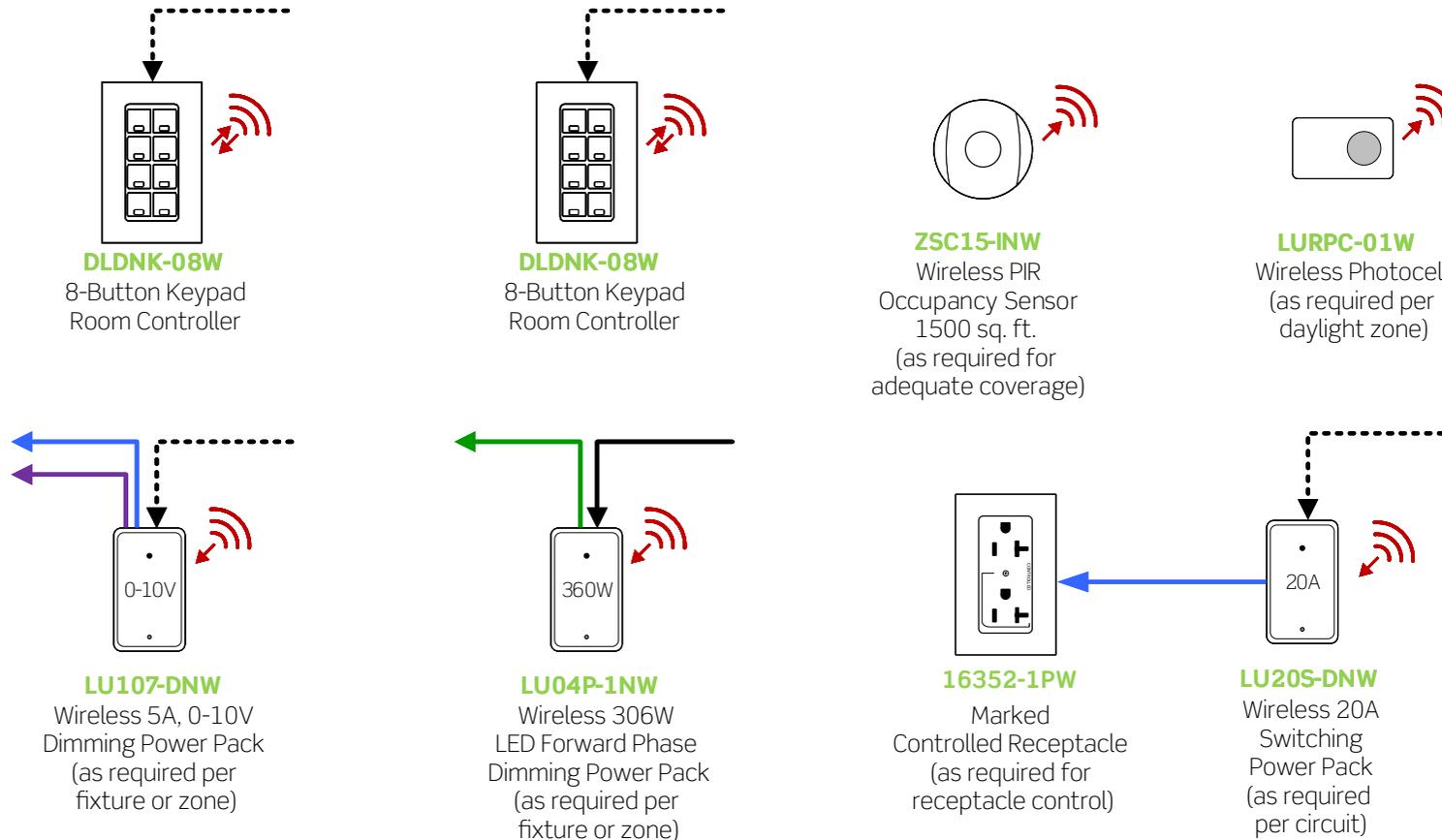
Wireless PIR
Occupancy Sensor
450 sq. ft.
(as required for
adequate coverage)



LURPC-01W

Wireless Photocell
(as required per daylight zon

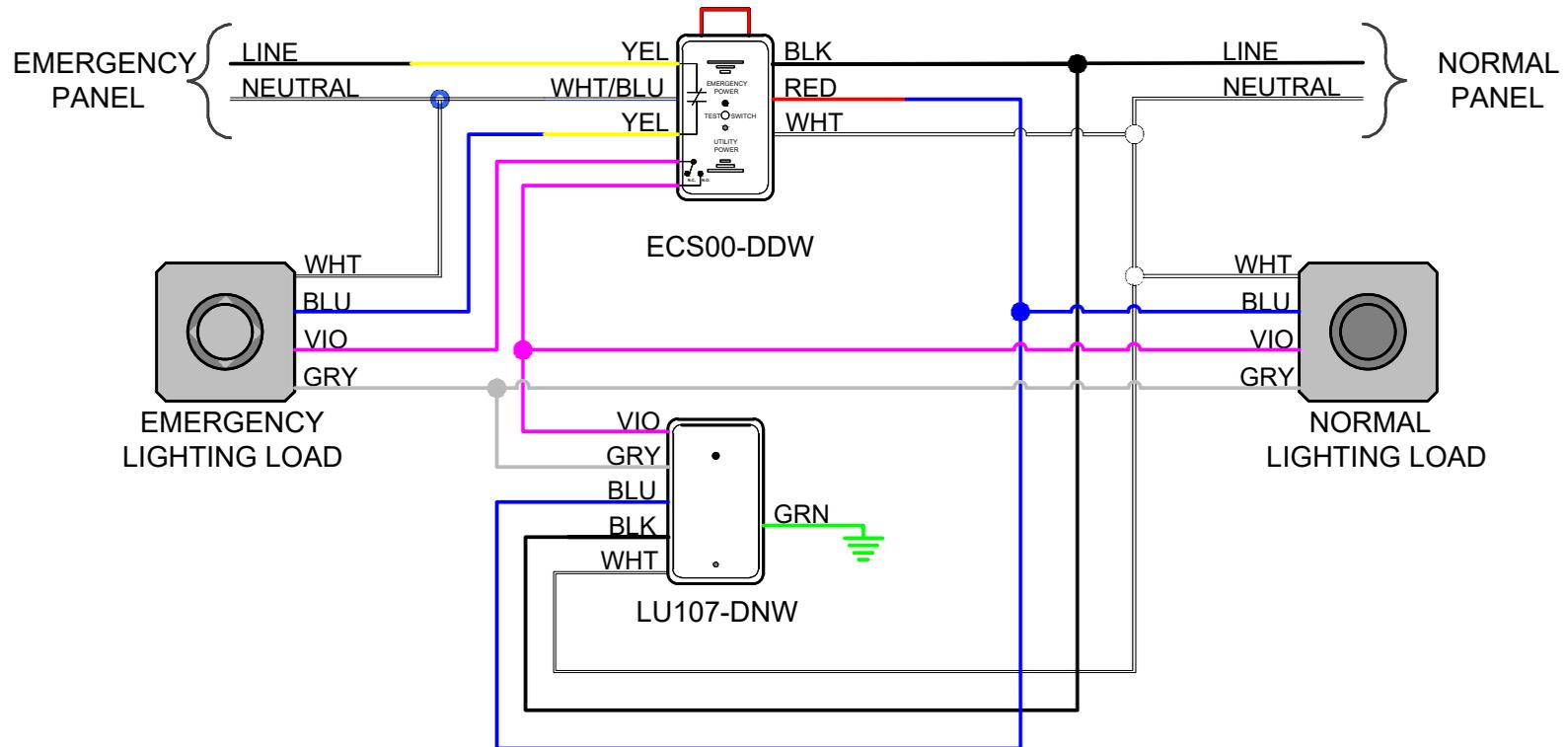
LUMINA RF WIRELESS 0-10V AND FORWARD PHASE DIMMING WITH OCCUPANCY SENSING, DAYLIGHT HARVESTING, SCENE CONTROL, MULTI-LOCATION CONTROL AND RECEPTACLE CONTROL, TYPICAL



LUMINA RF WIRELESS UL924 EMERGENCY CONTROL, TYPICAL

UL924 WIRING (ALSO APPLIES TO ZS057 and DL057)

*OPTIONAL ALARM INPUT



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