



**LEVITON**

**Applications Cookbook**  
**Provolt™ Room Controller (PRC)**  
Version 5.0

FOR REFERENCE ONLY

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## PRC COOKBOOK NOTES

1. Refer to installation instructions for device-specific terminations
2. Line feed 120/230/277VAC, 60Hz
3. Ground not shown. Ground devices per applicable national and local codes and 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 loads not to exceed contact rating per device specifications
8. Maximum run length for analog wiring is 1,000' @ #18 AWG
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. Applications requiring multiple power packs/power supplies at the same VDC: +V must never be tie together to all power packs/power supplies; com/DCC must be tied together to all power packs/power supplies and all powered devices.
12. Ultrasonic ceiling mount sensors should be located a minimum of six (6) feet from HVAC supply/return vents
13. Trough-mounted, pendant 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.
14. 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
15. 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 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
16. Ceiling sensors mounted over doorways should be placed one (1) foot inside the threshold

17. Up to 100 Mark VII style ballasts may be controlled per daylighting zone by IRC
18. All relays shown in de-energized state
19. Individually cap off unused leads
20. One-line parenthesis use:
  - (x) - Function
  - (#) - Terminal
21. 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
22. Control receptacle:
  - Quantity per application codes
  - Termination shown split receptacle. Termination per application codes.
  - Receptacle markings per applicable energy codes

### DRAWING SYMBOLS

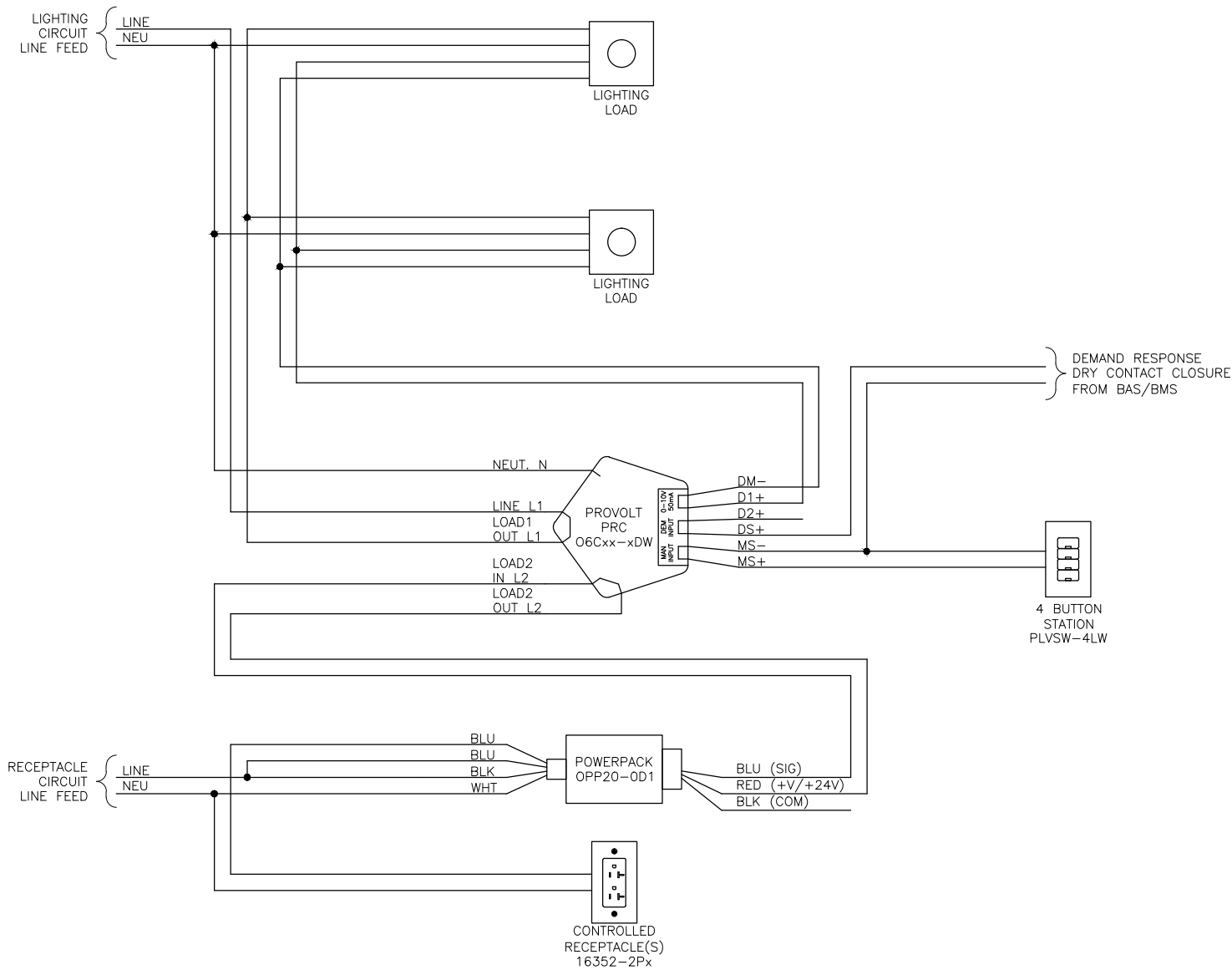
- ⊕ No connection
- ⌚ Connection



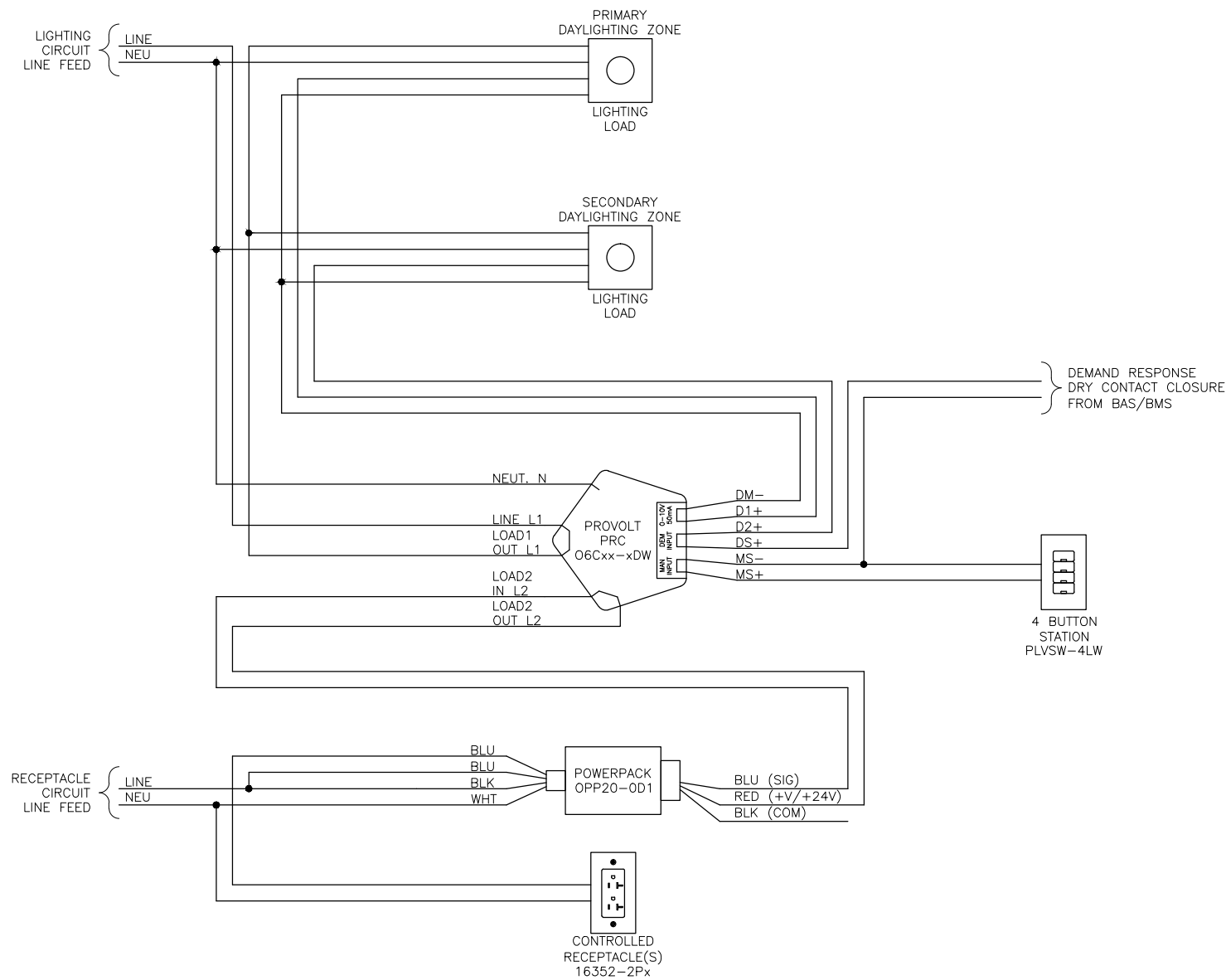
### DRAWING ABBREVIATIONS

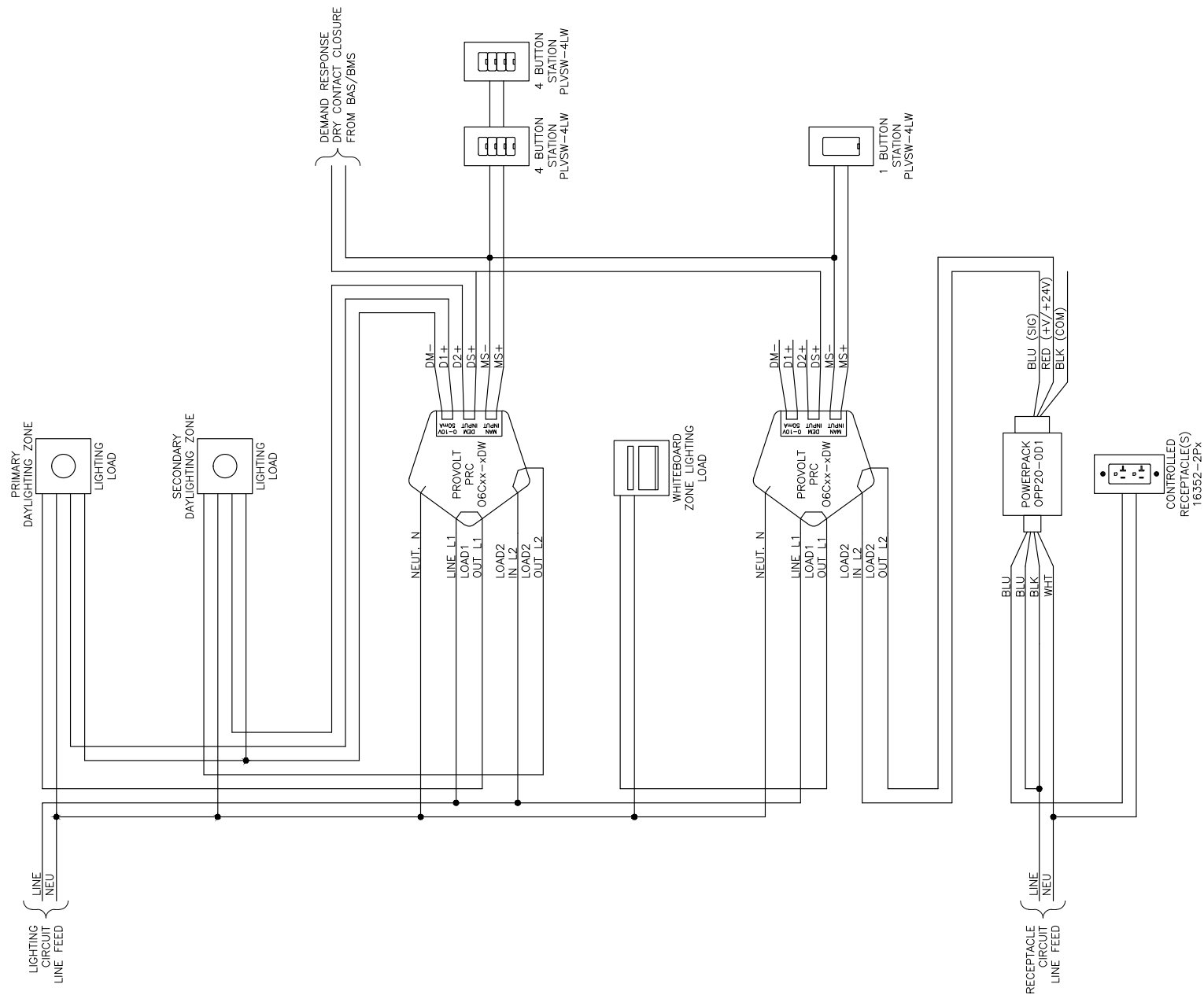
LC	LumaCan
LV	Low voltage
HV	High voltage switch (maintained)
LVM	Low voltage switch (momentary)- equal to Leviton 1081(toggle) or Leviton 56081 (Decora)
LVT	Low voltage switch (maintained)-equal to Leviton 12021-2 (toggle) or Leviton 56021-2 (Decora)
LV2	IRC low voltage switch
UON	Unless otherwise noted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

# PRC SMALL OFFICE SINGLE ZONE

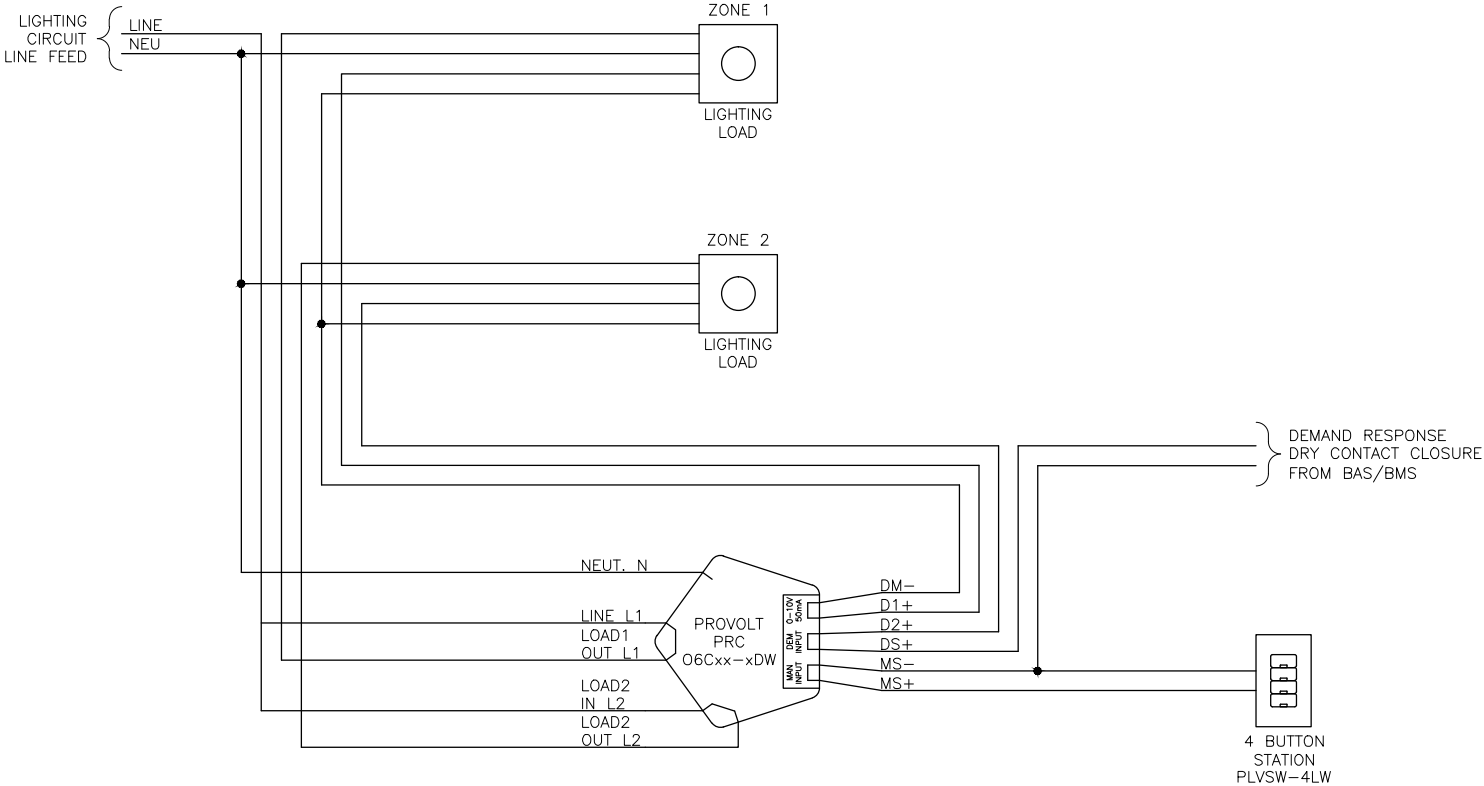


# PRC SMALL OFFICE DUAL ZONE

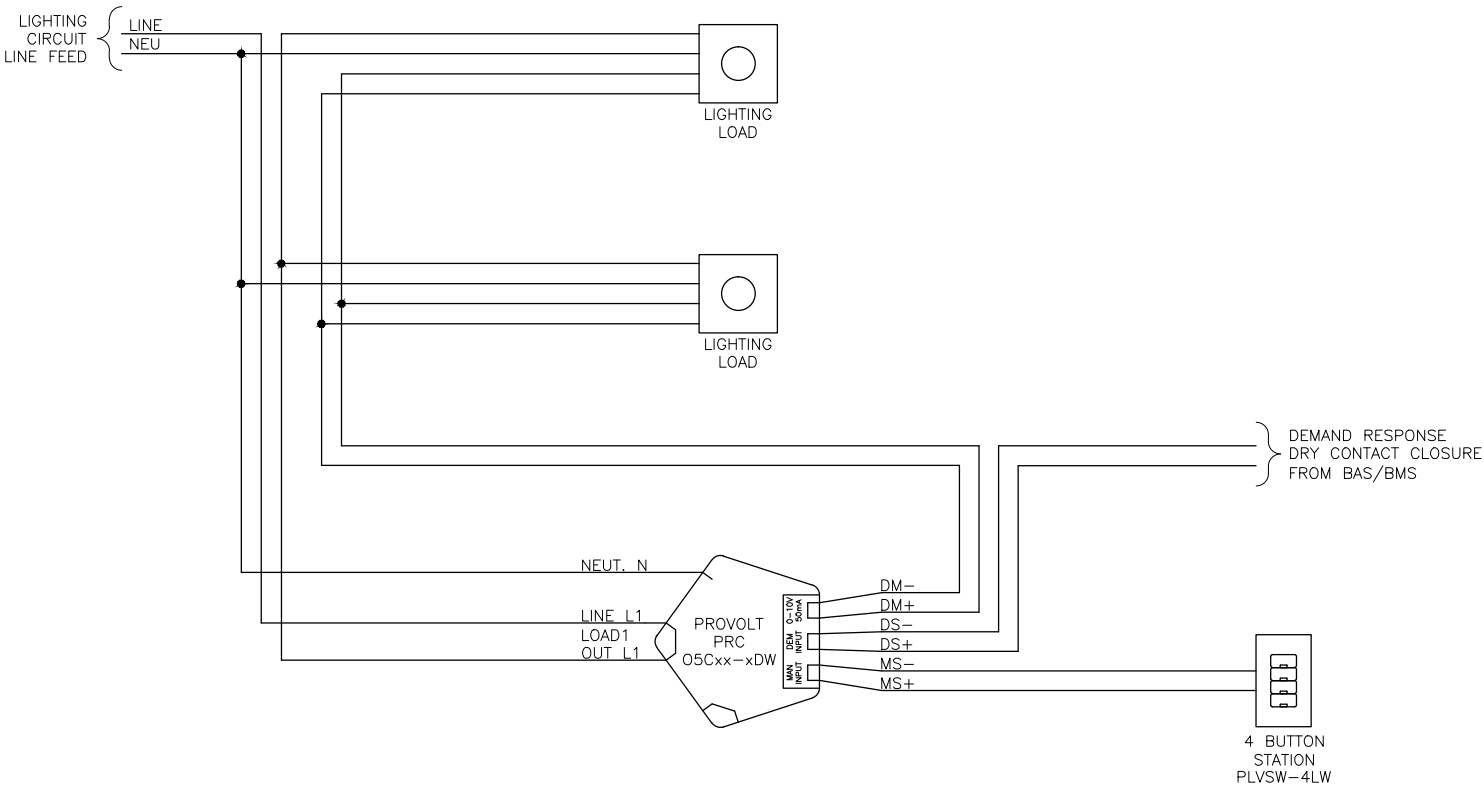




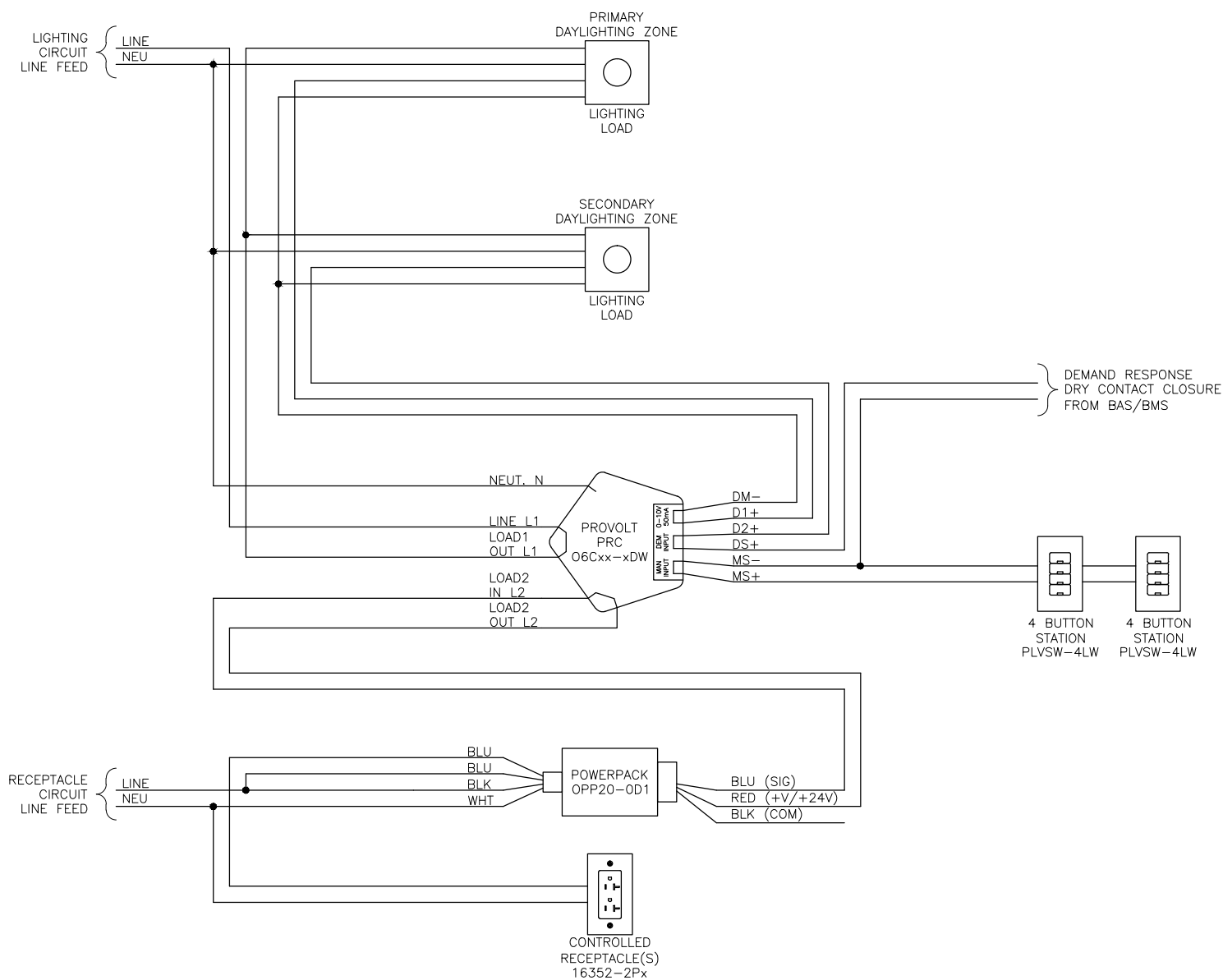
STAIRWELL LANDING PRC, DUAL ZONE



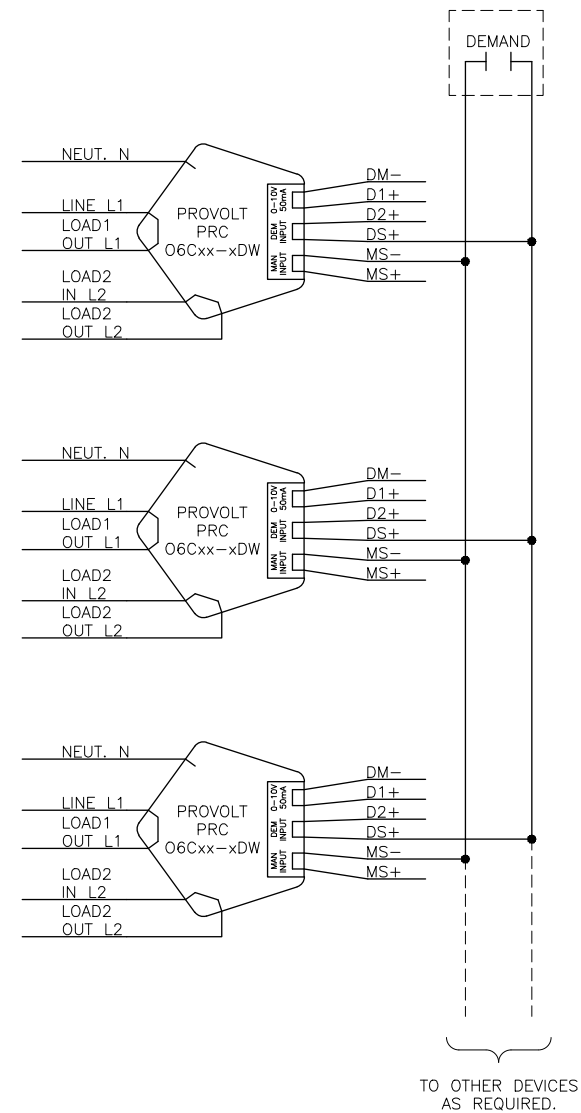
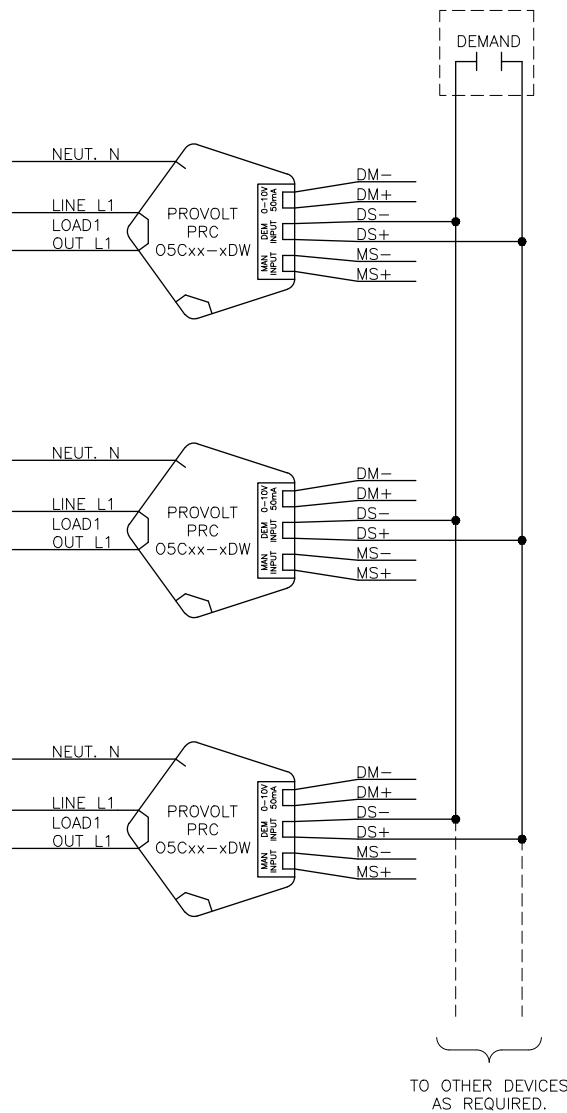
STAIRWELL LANDING PRC, SINGLE ZONE



PRC COMMON AREA



# PRC: DEMAND RESPONSE TERMINATIONS

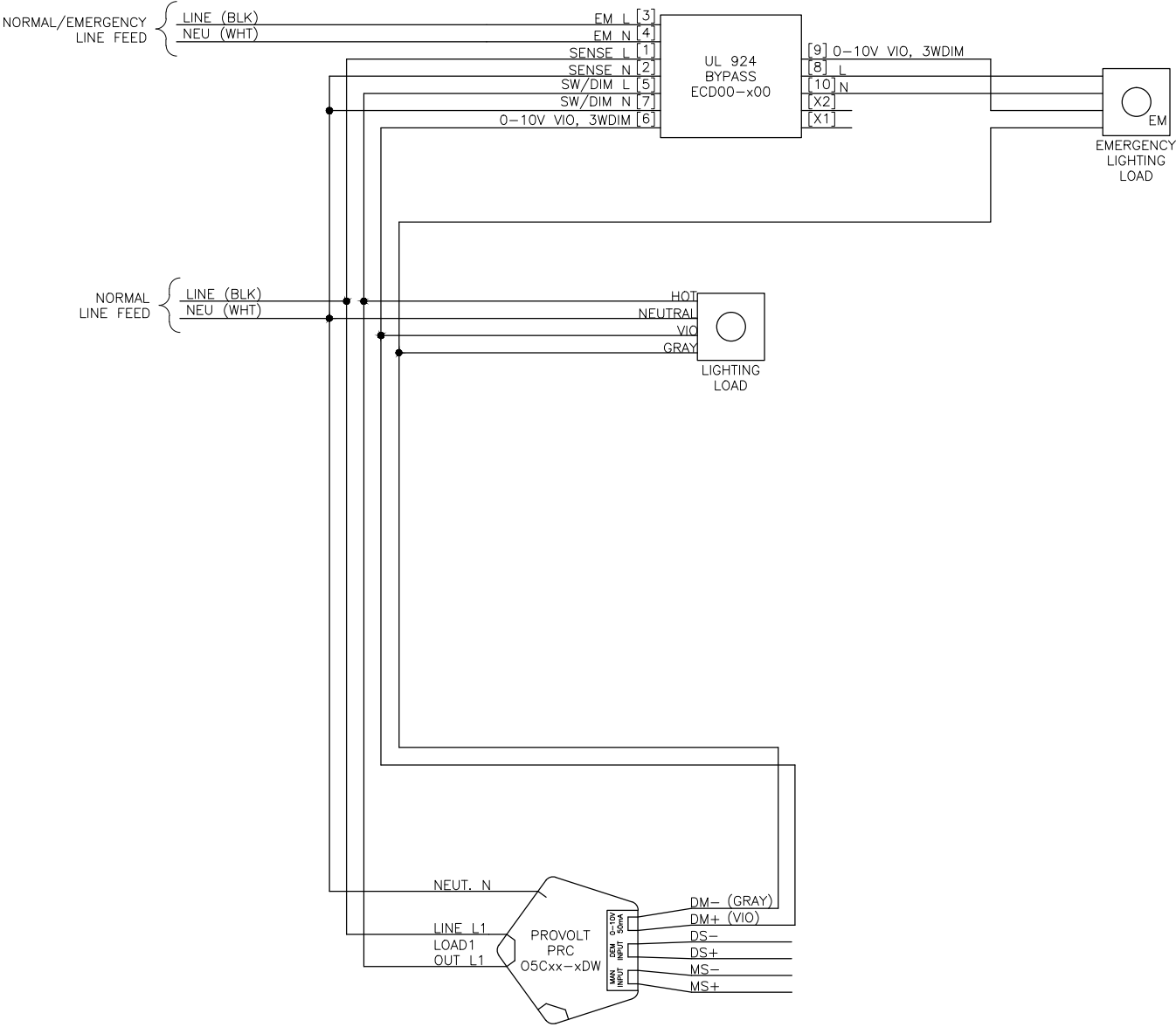


## NOTES:

1. DEMAND RESPONSE
  - TRIGGERED BY DRY CONTACT CLOSURE.
  - DEMAND RESPONSE PER ENERGY CODE OPERATIONAL REQUIREMENT.
  - QUANTITY OF DEVICES TRIGGERED ON SAME CLOSURE NOT TO EXCEED 30.
2. OTHER CONNECTIONS NOT SHOWN FOR CLARITY. REFER TO PRODUCT INSTALLATION MANUALS FOR MORE INFORMATION.
3. ADDITIONAL DEVICES (AS REQUIRED) WIRE IN PARALLEL.

UL924 BYPASS, 0-10V “4-WIRE” PROVOLT DIMMED LOAD

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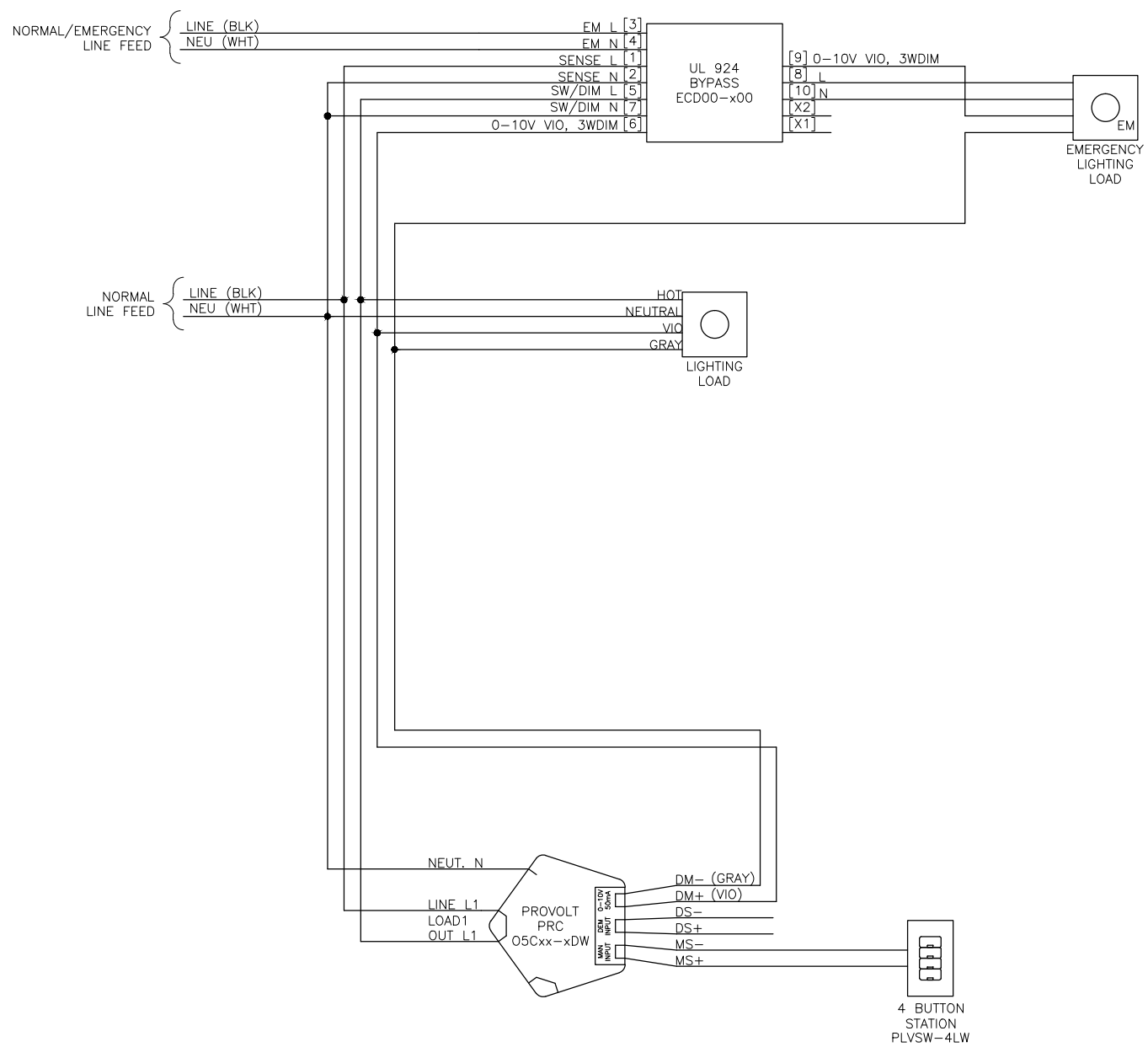


NOTES:

1. TERMINATIONS NOT PARTICIPATING IN THIS SCHEME NOT SHOWN FOR CLARITY.

UL924 BYPASS, PROVOLT, AUTO ON/OFF, MANUAL ON/OFF

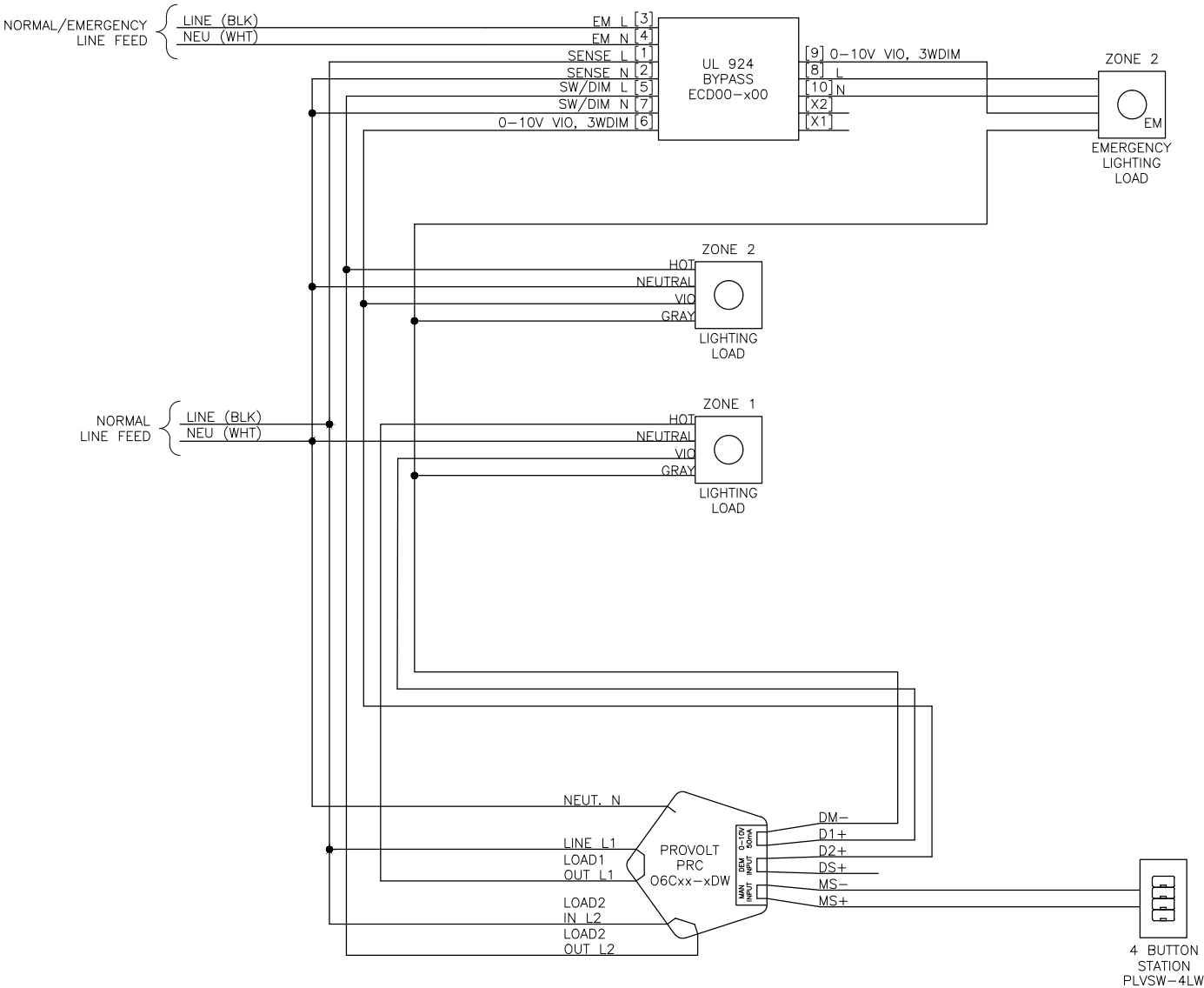
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NOTES:

1. TERMINATIONS NOT PARTICIPATING IN THIS SCHEME NOT SHOWN FOR CLARITY.

# UL924 BYPASS, DAYLIGHT HARVESTING, PROVOLT DIMMING, 2 ZONES

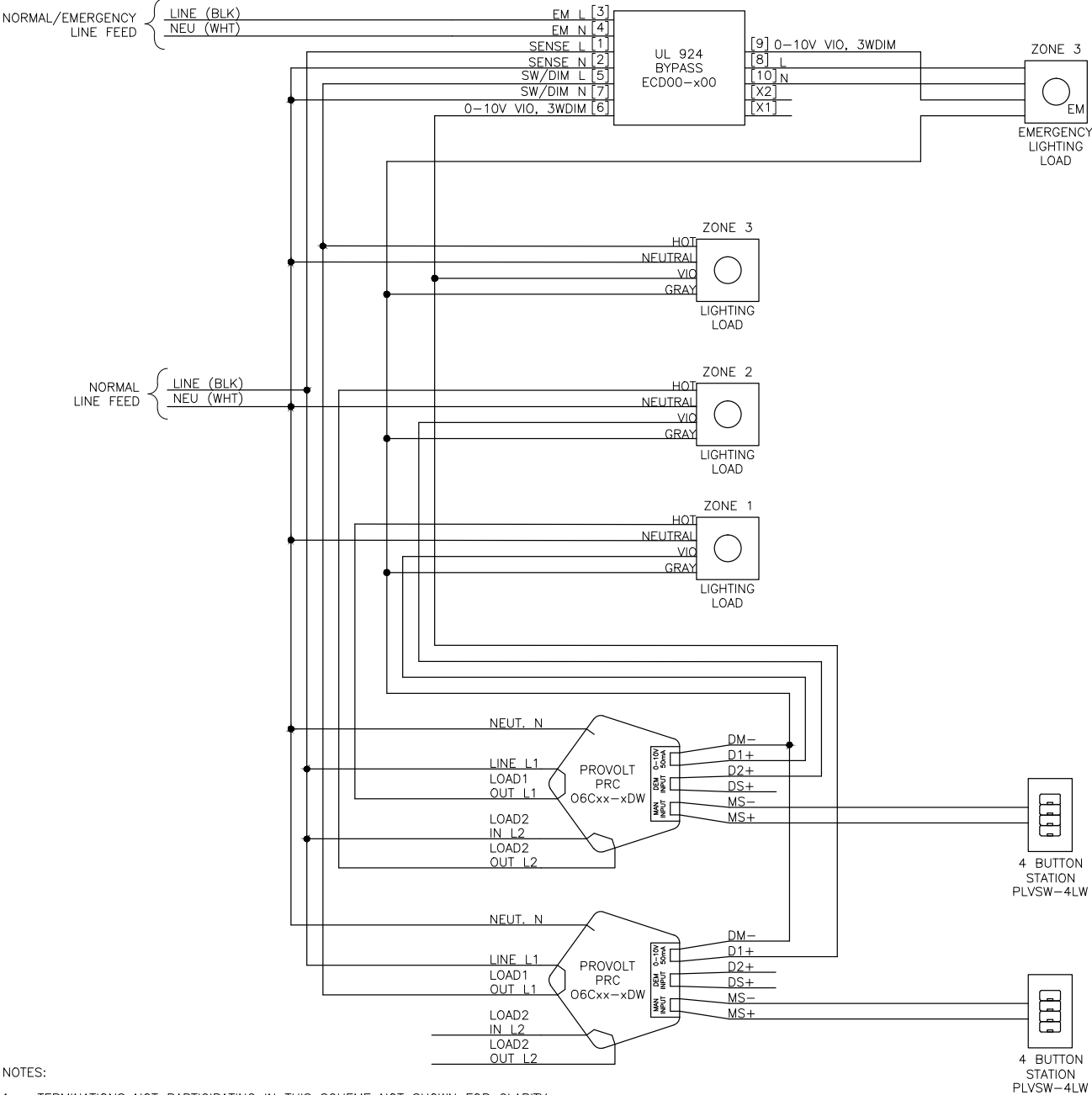


NOTES:

- 1. TERMINATIONS NOT PARTICIPATING IN THIS SCHEME NOT SHOWN FOR CLARITY.

UL924 BYPASS, DAYLIGHT HARVESTING, PROVOLT DIMMING, 3 ZONES

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**Leviton Manufacturing Co., Inc. Global Headquarters**

201 North Service Road, Melville, NY 11747-3138 **tel** 800-323-8920 **fax** 800-832-9538 **tech line** (8:30AM-7:00PM ET Mon-Fri) 800-824-3005

**Leviton Manufacturing Co., Inc. Energy Management, Controls and Automation**

20497 SW Teton Avenue, Tualatin, OR 97062 **tel** 800-736-6682 **fax** 503-404-5594 **tech line** (6:00AM-4:00PM PT Mon-Fri) 800-959-6004

**Visit our Website at: [www.leviton.com/provolt](http://www.leviton.com/provolt)**

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