

WAVELINX WIRED WIRING DIAGRAMS

UPDATED: 08/30/2022



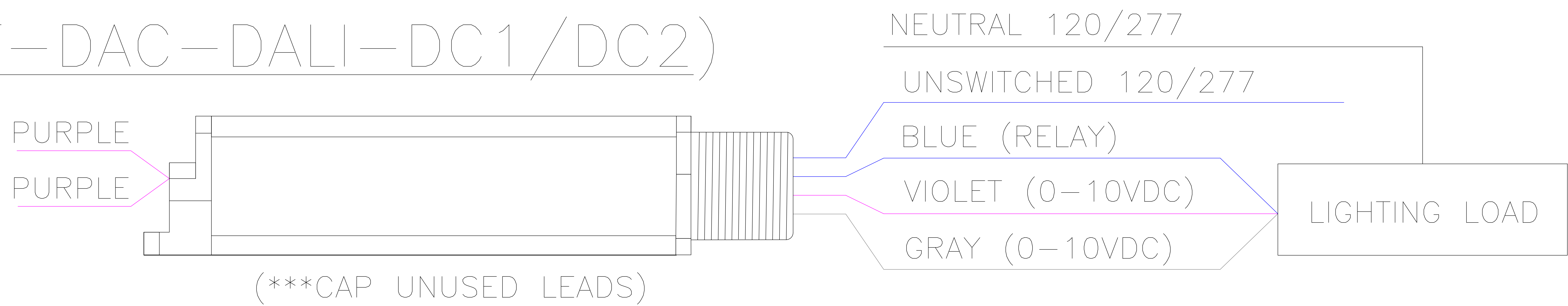
Wiring Diagrams

1. UIM with Third Party Contact Closure
2. UIM with GMTL-N
3. UIM with Third Party Partition Switches
4. DAC – Normal Power
5. DAC – Emergency Power
6. Field Relay Receptacle Control – FLT-HPRS-DALI
7. UIM with Power Packs for GreenGate Sensors – (2) SP20-MV
8. UIM with Pillow Speaker
9. 2-Wire Power Pack with GreenGate Sensors – FLT-SP-MV-DC1/DC2
10. UIM with SP20-RD4 & PPS-5
11. UIM with (2) IRTR & EXPS-15V
12. UIM with (2) IRTR & SP20-RD4
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21. DAC – MLV Dimming (PD216 2-Wire)
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Wiring Diagrams

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- 28. WaveLinx Wired System Typical One-Line
- 29. TSI/TSE Connection

(FLT-DAC-DALI-DC1/DC2)



4 DAC - NORMAL POWER
 (1) FLT-DAC-DALI-DC1/DC2

WaveLinx Wired
 Wiring Diagram

DAC
 Normal Power

PROJECT #:		
REV #: 0	DRAWN BY: BP	DATE: 11/10/2021
SHEET#: 1/1	SHEET SIZE: 8" X 11"	SCALE: NTS



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 Lighting Solutions

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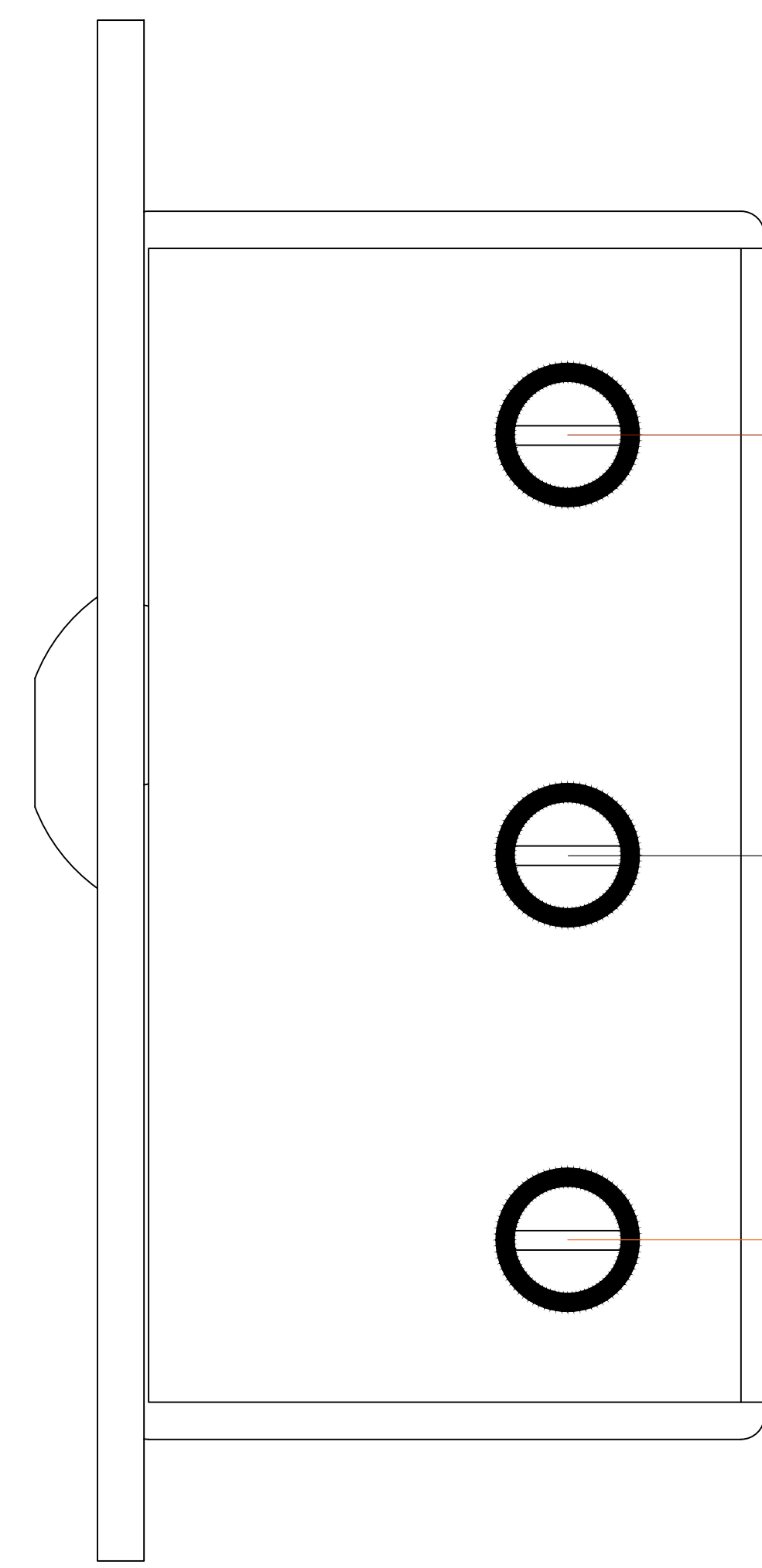
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(GMTL-N)



RED +V

INPUT 1 BROWN

INPUT 2 ORANGE

INPUT 3 YELLOW

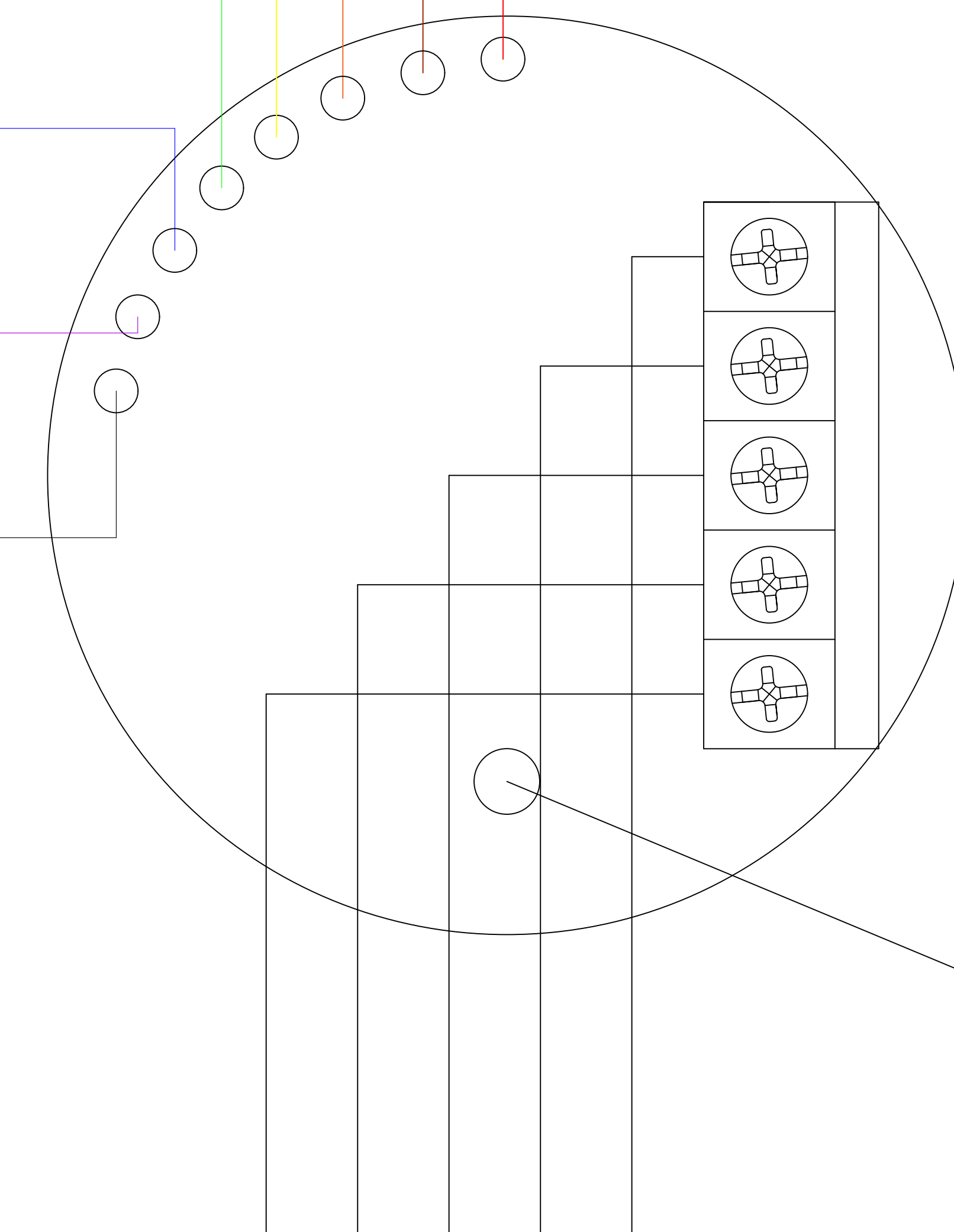
INPUT 4 GREEN

INPUT 5 BLUE

INPUT 6 VIOLET

0V BLACK

(UIM)



+12V
CAN H
CAN L
0V
SH

LED

NETWORK CONNECTION

MUST BE INSTALLED WITHIN 32' OF UIM

2 UIM w/GMTL-N
(1) UIM (1) GMTL-N

WaveLinx Wired
Wiring Diagram

UIM with GMTL-N

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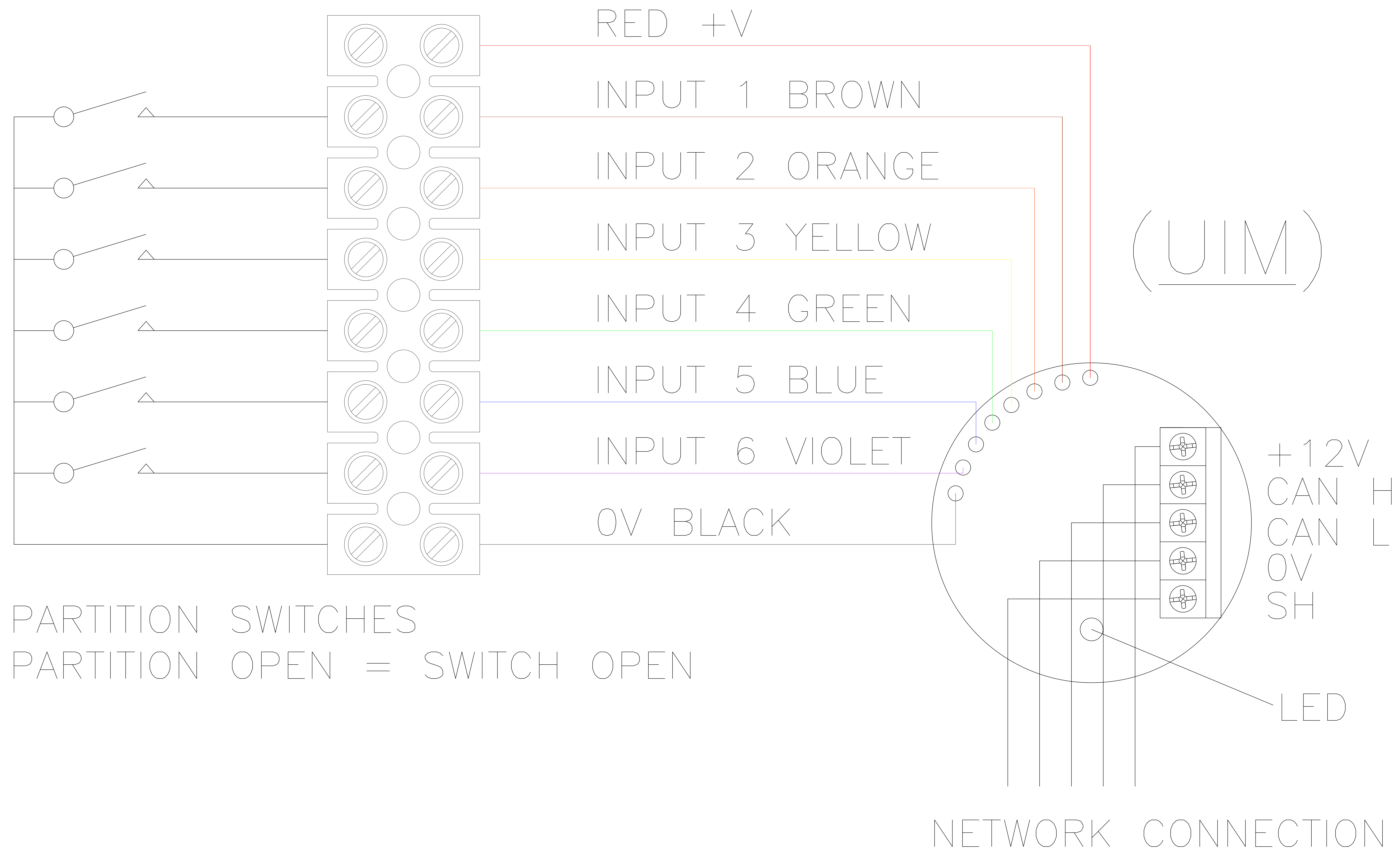
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3 UIM w/3RD PARTY PARTITION SWITCHES
 (1) UIM

WaveLinx Wired
 Wiring Diagram

UIM
 with 3rd Party Partition Switches

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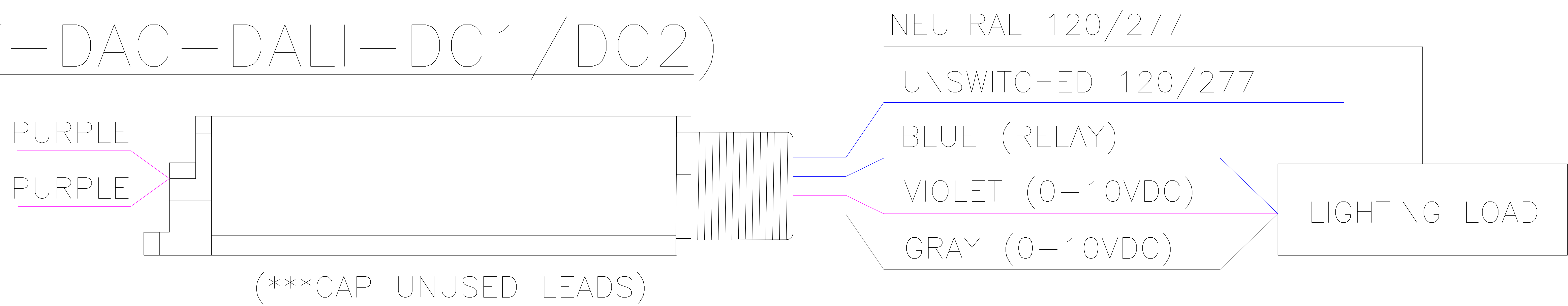
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(FLT-DAC-DALI-DC1/DC2)



4 DAC - NORMAL POWER
 (1) FLT-DAC-DALI-DC1/DC2

WaveLinx Wired
 Wiring Diagram

DAC
 Normal Power

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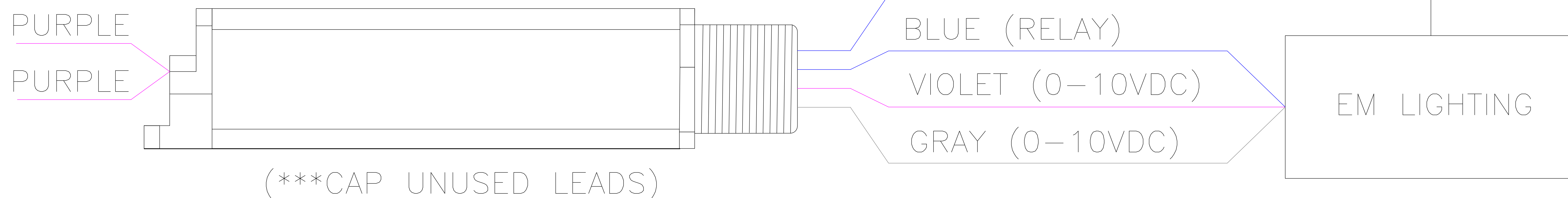
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(FLT-DAC-DALI-DC1/DC2)



5 DAC - EMERGENCY POWER
 (1) FLT-DAC-DALI-DC1/DC2

WaveLinx Wired
 Wiring Diagram

DAC
 Emergency Power

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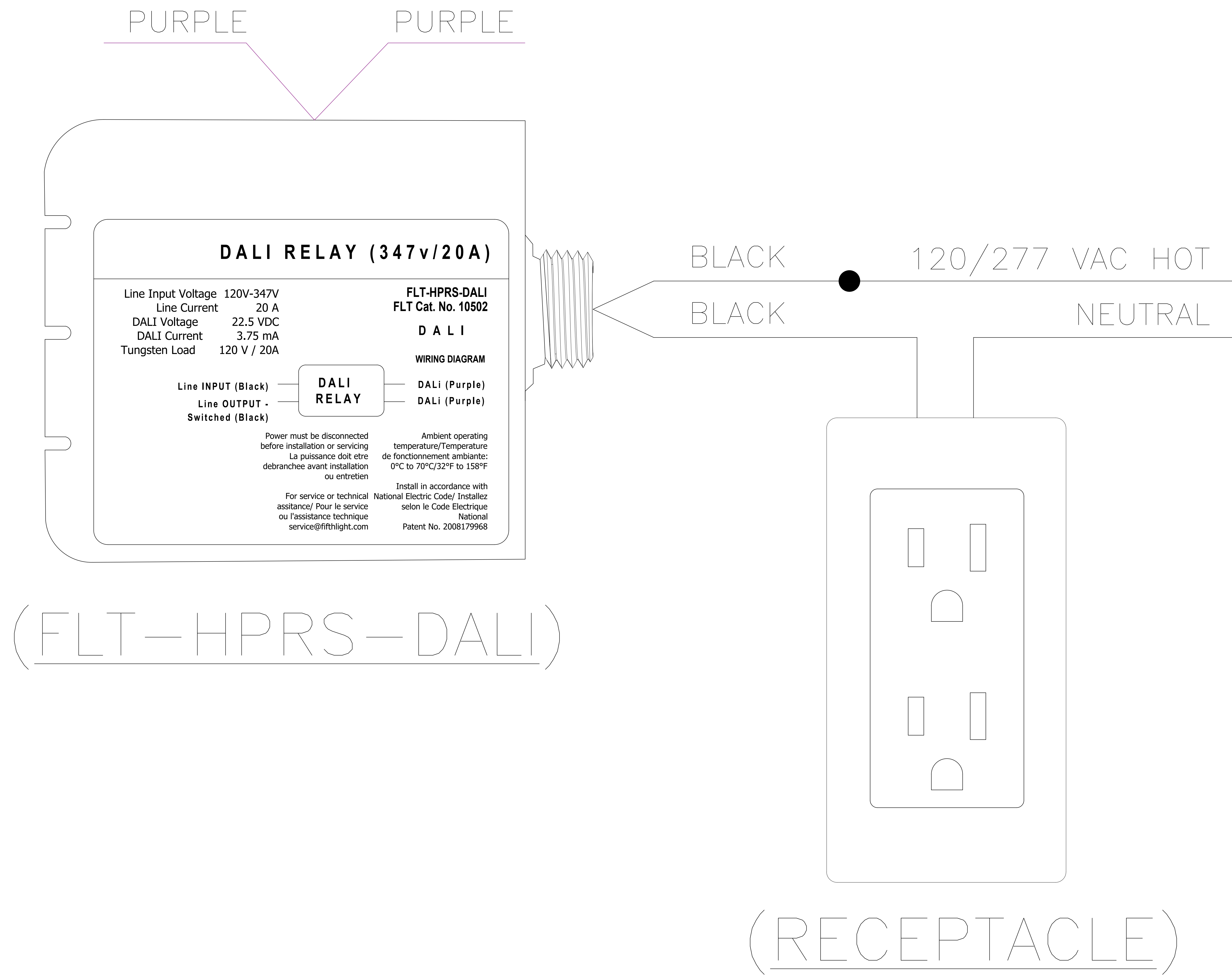
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6 FIELD RELAY — RECEPTACLE CONTROL
 (1) FLT-HPRS-DALI (1) RECEPTACLE

WaveLinx Wired
 Wiring Diagram

Field Relay
 Receptacle Control

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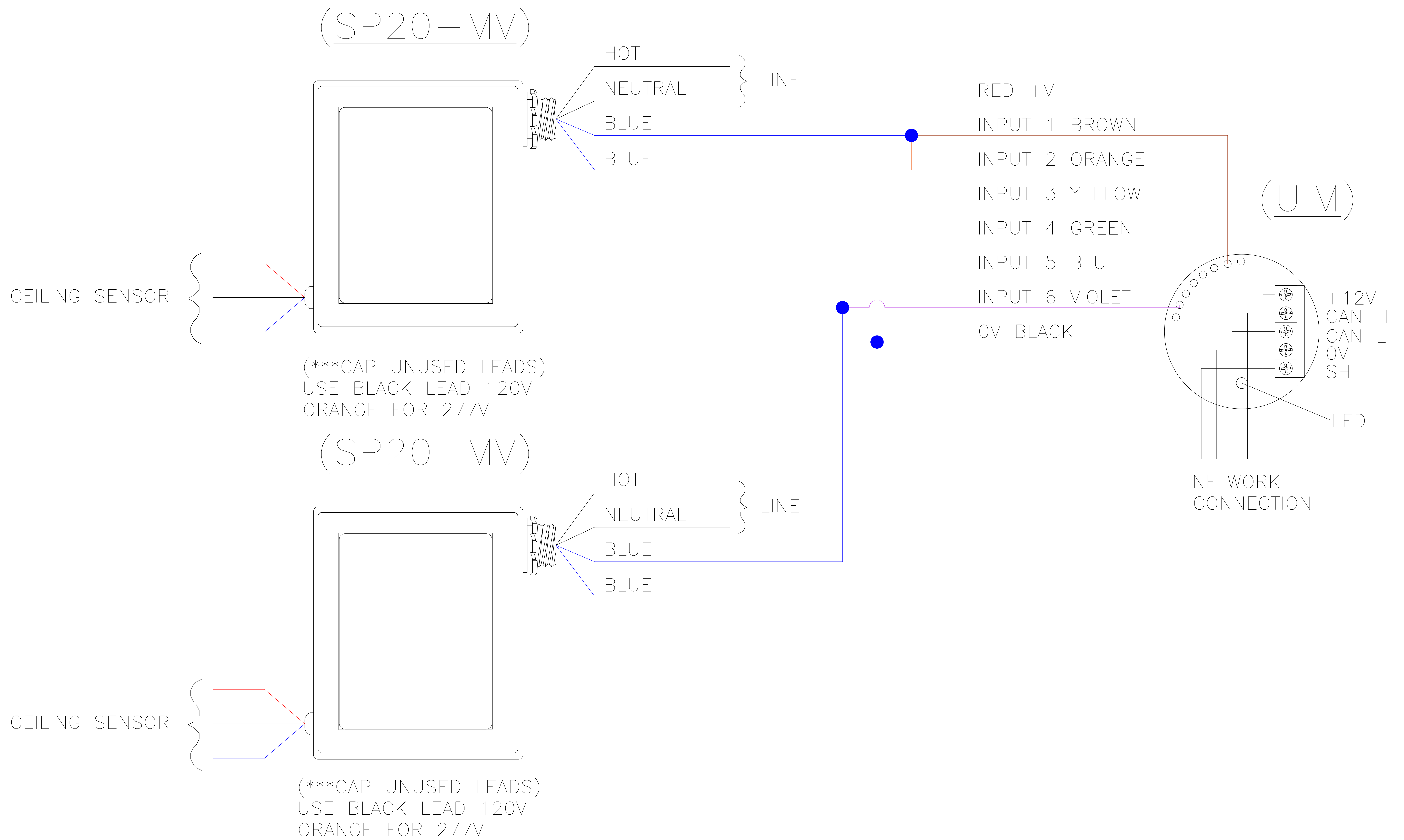
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7 UIM w/POWER PACKS FOR GREENGATE SENSORS
(2) SP20-MV (1) UIM

WaveLinx Wired
Wiring Diagram

UIM with Power Packs
for GreenGate Sensors

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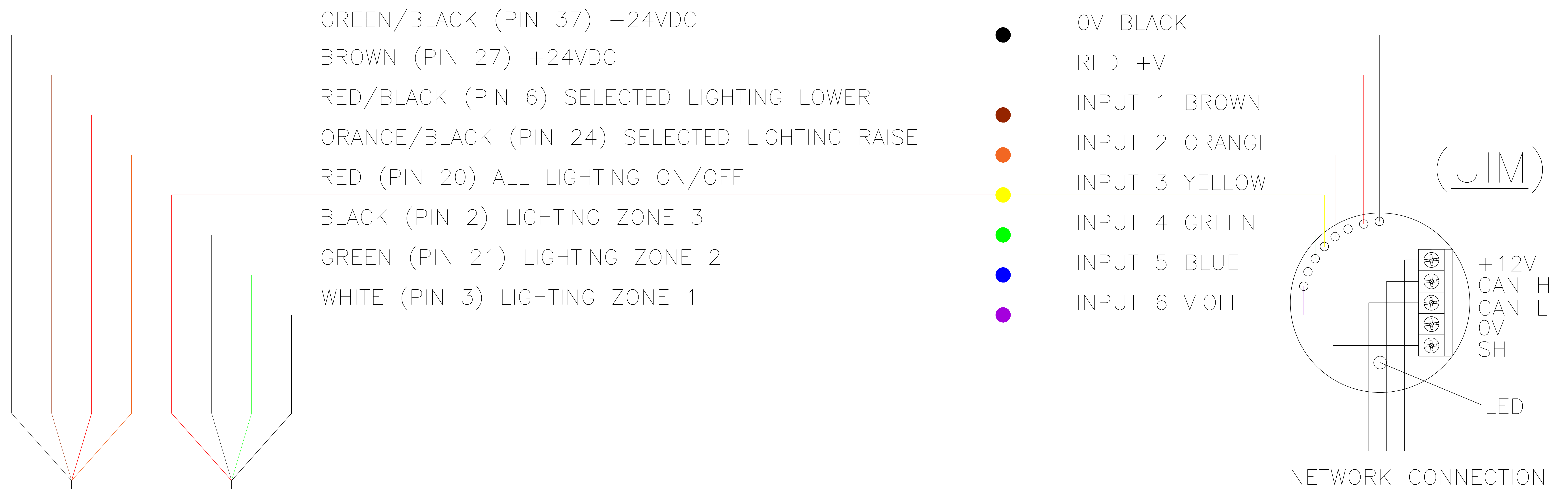
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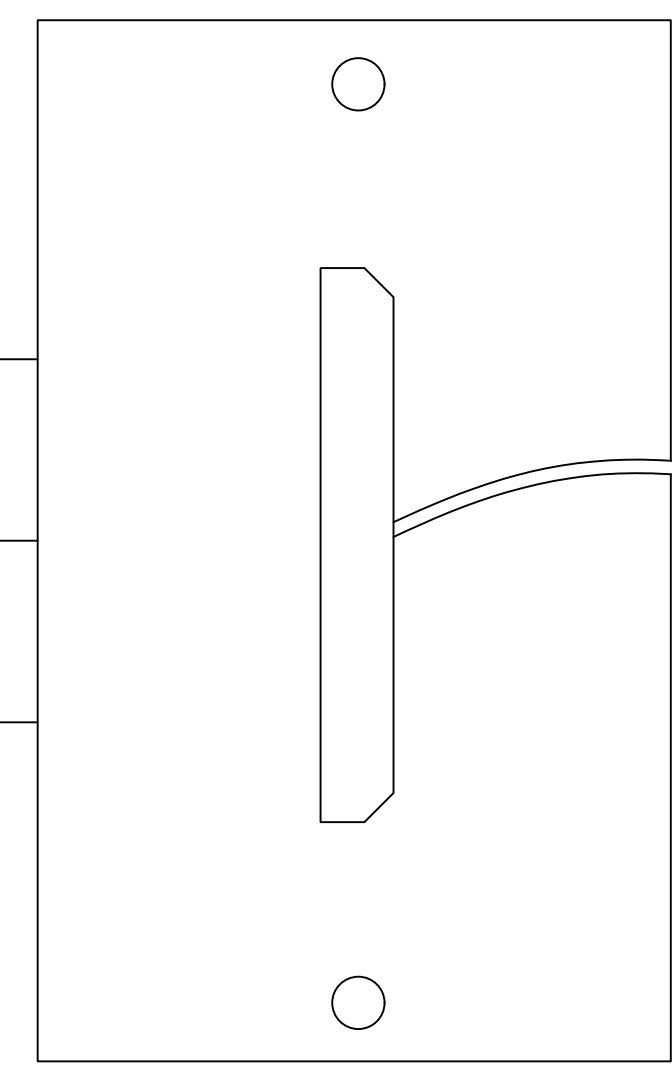
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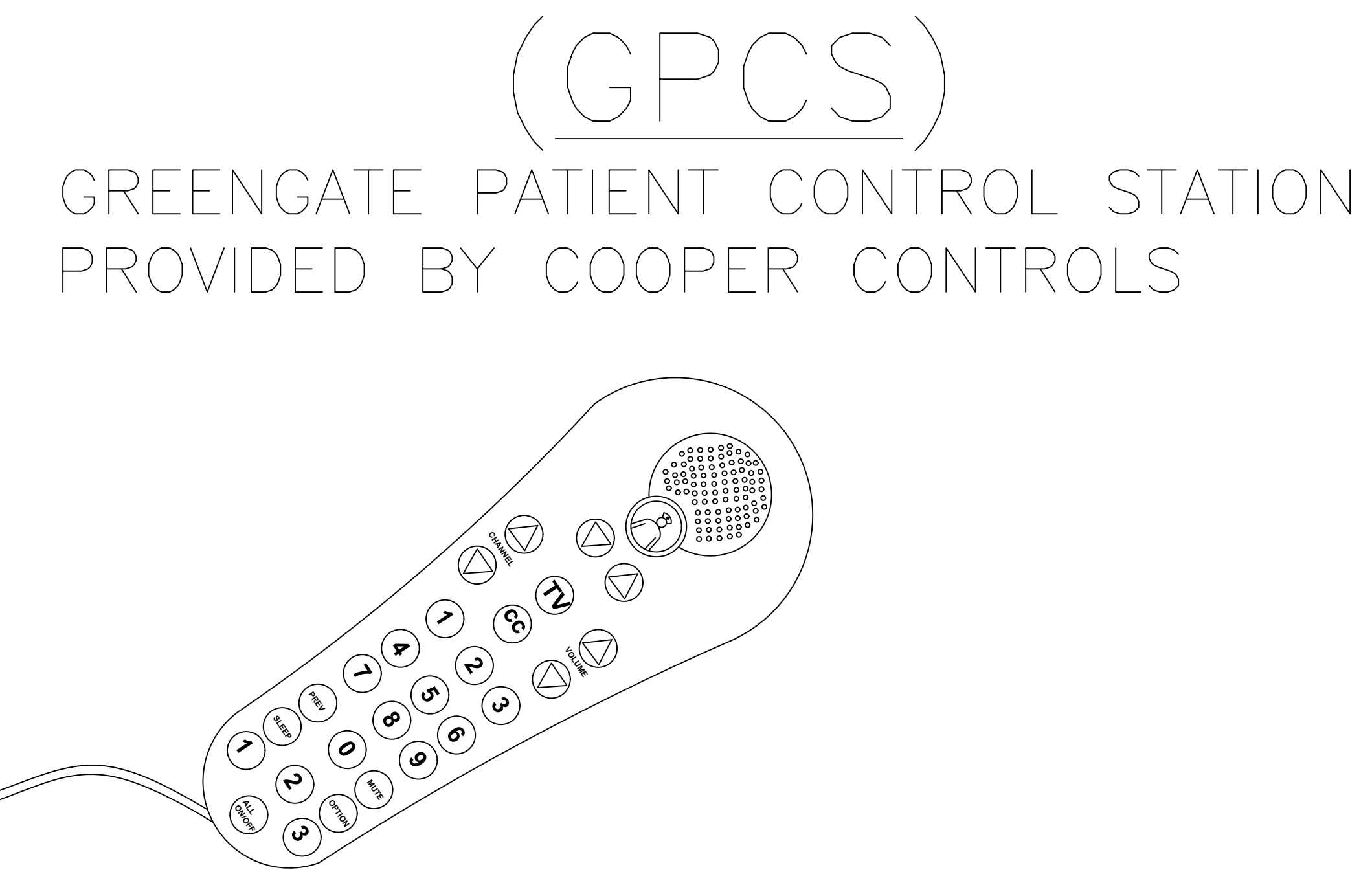
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CABLE C (PINS 5, 24, 27)
 TYPICALLY CONNECTS TO ENTERTAINMENT DEVICES
 CABLE B TYPICALLY CONNECTS TO NURSE CALL STATIONS
 CABLE A (PINS 2, 3, 20, 21, 27)



(GG37P)
 GREENGATE 37 PIN RECEPTACLE
 PROVIDED BY COOPER CONTROLS
 FOR PILLOW SPEAKER CONNECTION



(GPCS)
 GREENGATE PATIENT CONTROL STATION
 PROVIDED BY COOPER CONTROLS

8 UIM w/PILLOW SPEAKER
 (1) UIM (1) GPCS (1) GG37P

WaveLinx Wired
 Wiring Diagram

UIM
 with Pillow Speaker

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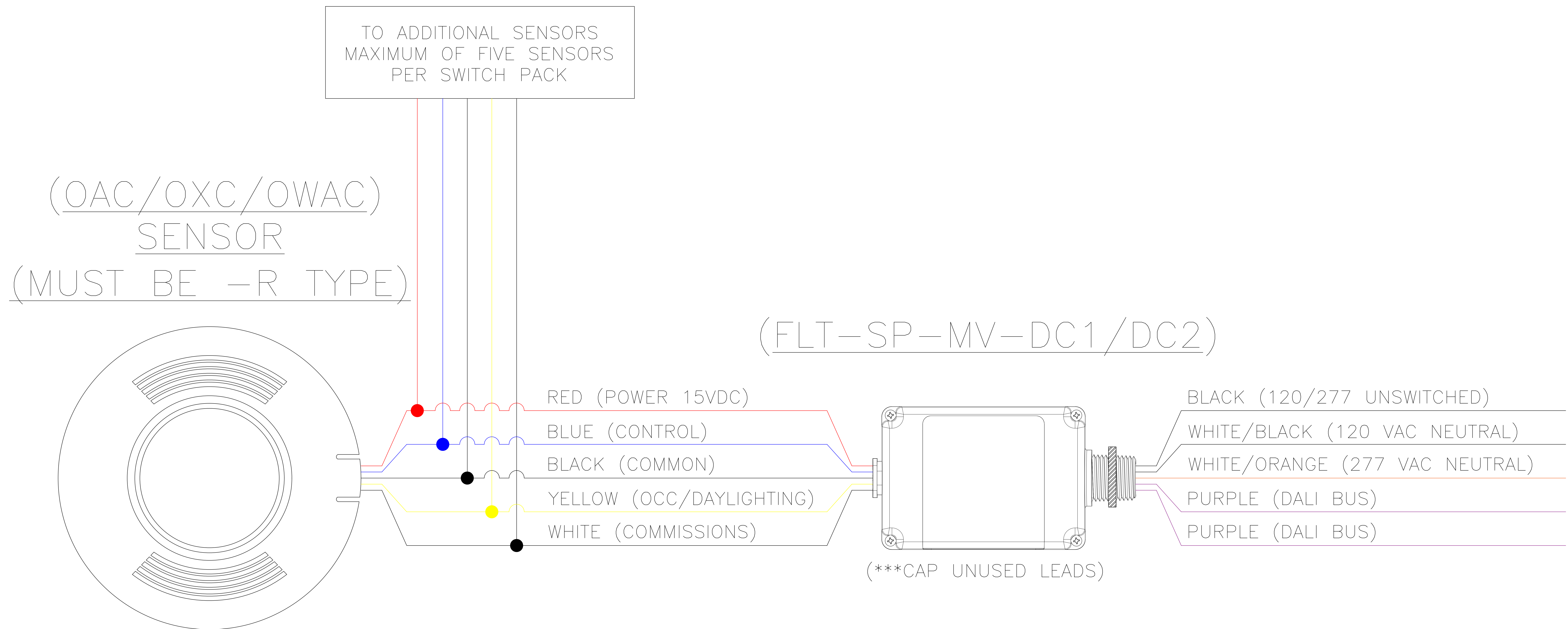
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9 2-WIRE POWER PACK W/ GREENGATE SENSOR(S)
(1) FLT-SP-MV-DC1/DC2 (1) OAC/OXC/OWAC SENSOR

WaveLinx Wired
Wiring Diagram

2-WIRE POWER PACK
with GreenGate Sensors

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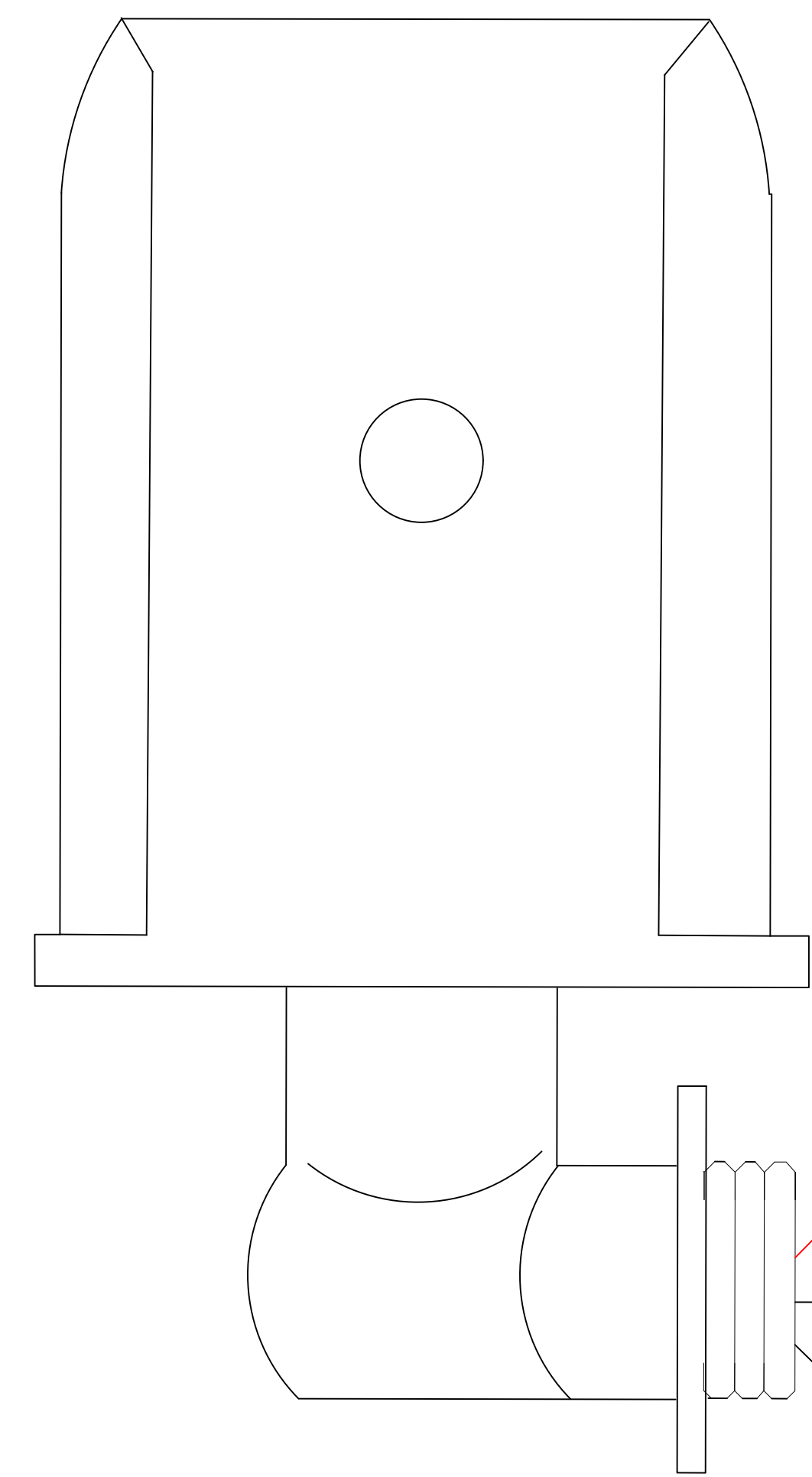
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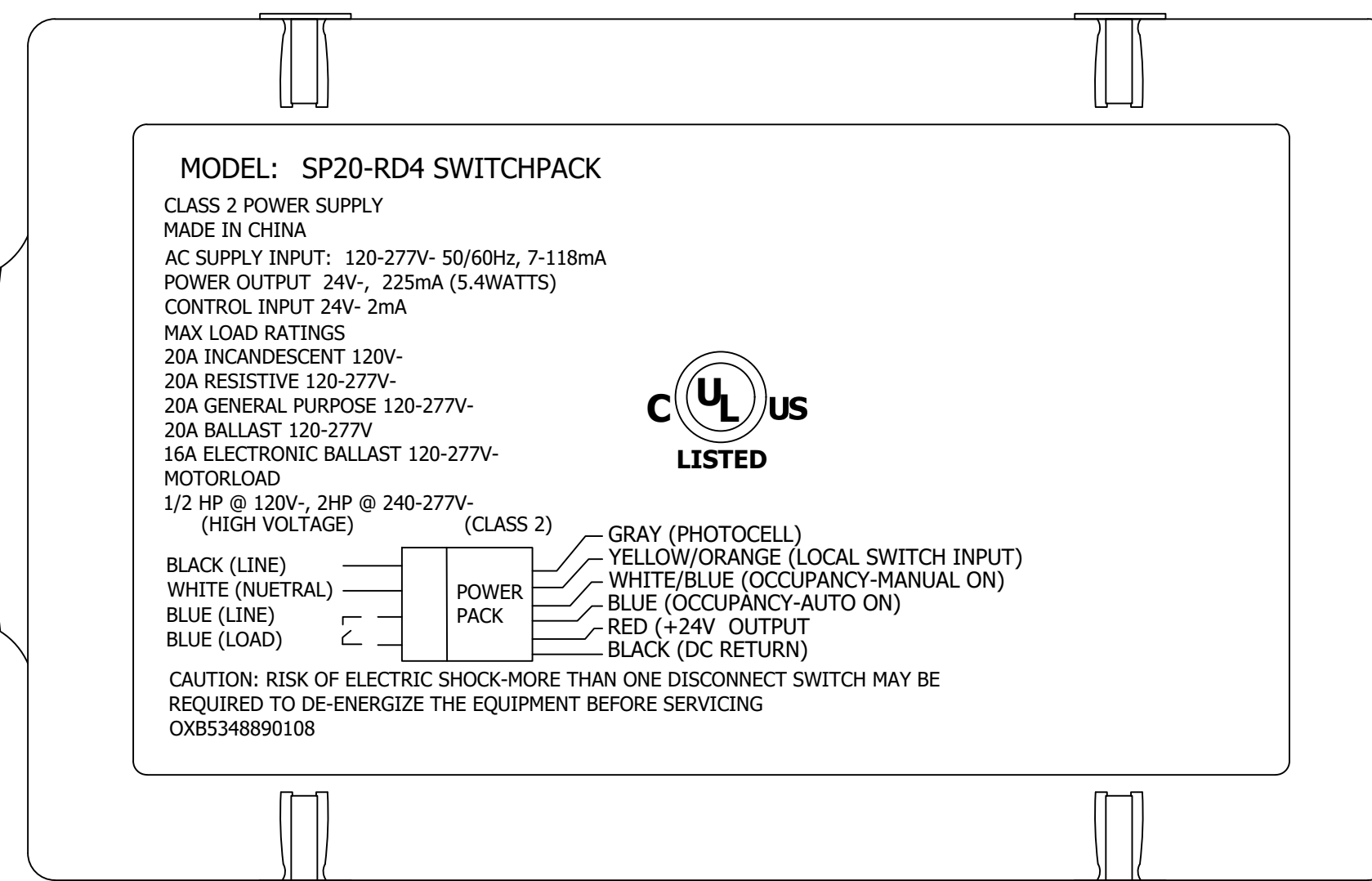
(PPS-5)



RED
WHITE
BLACK

RED
BLUE
BLACK

(SP20-RD4)

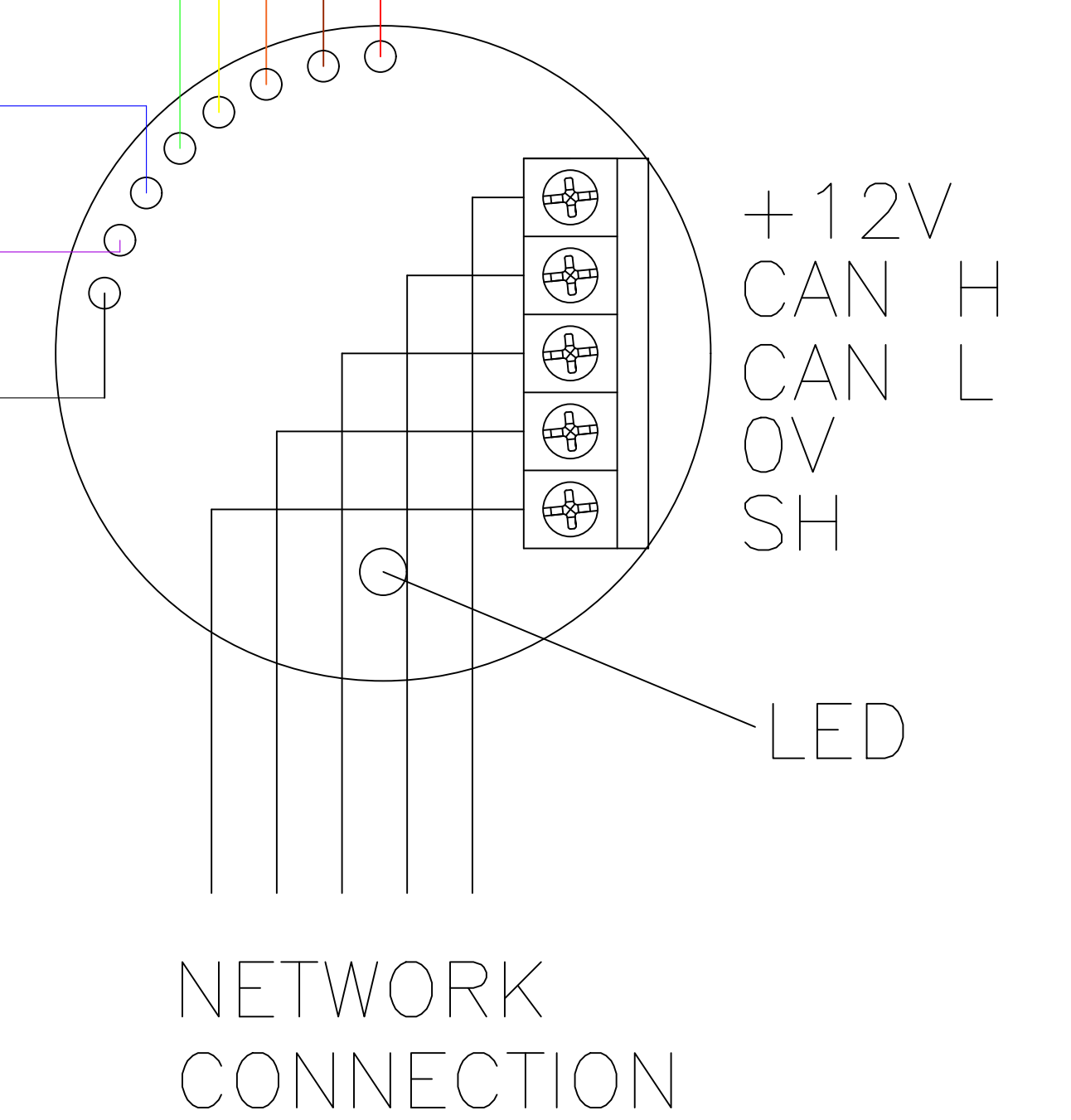


(**CAP UNUSED LEADS)
USE BLACK LEAD 120V
ORANGE FOR 277V*

HOT
NEUTRAL
BLUE
BLUE

RED +V
INPUT 1 BROWN
INPUT 2 ORANGE
INPUT 3 YELLOW
INPUT 4 GREEN
INPUT 5 BLUE
INPUT 6 VIOLET
0V BLACK

(UIM)



10 UIM W/ SP20-RD4 & PPS-5
(1) UIM (1) SP20-RD4 (1) PPS-5

WaveLinx Wired
Wiring Diagram

UIM
with SP20-RD4 & PPS-5

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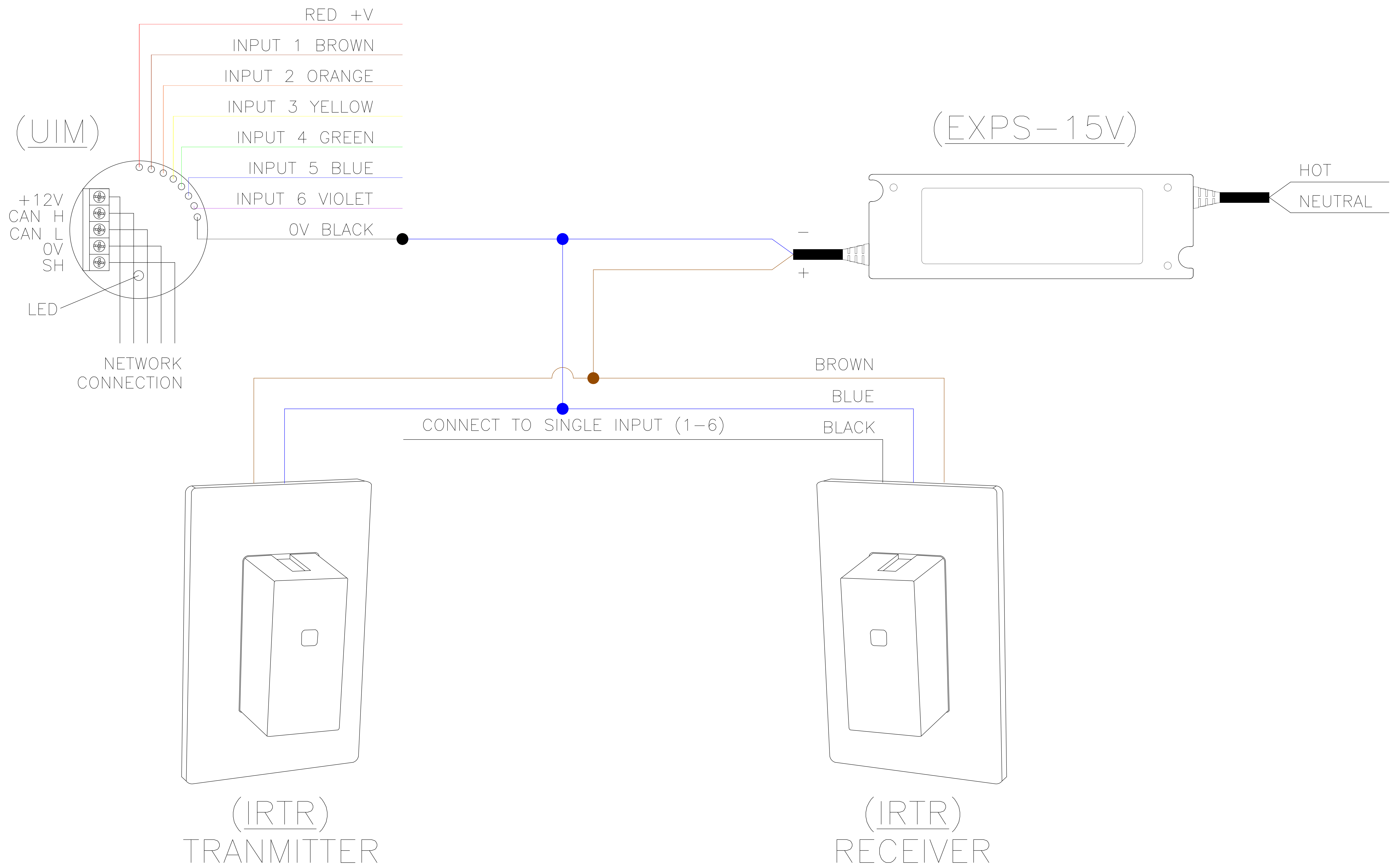
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11 UIM - IRTR & EXPS-15V
 (1) UIM (1) EXPS-15V (2) IRTR

WaveLinx Wired
 Wiring Diagram

UIM
 with IRTR & EXPS-15V

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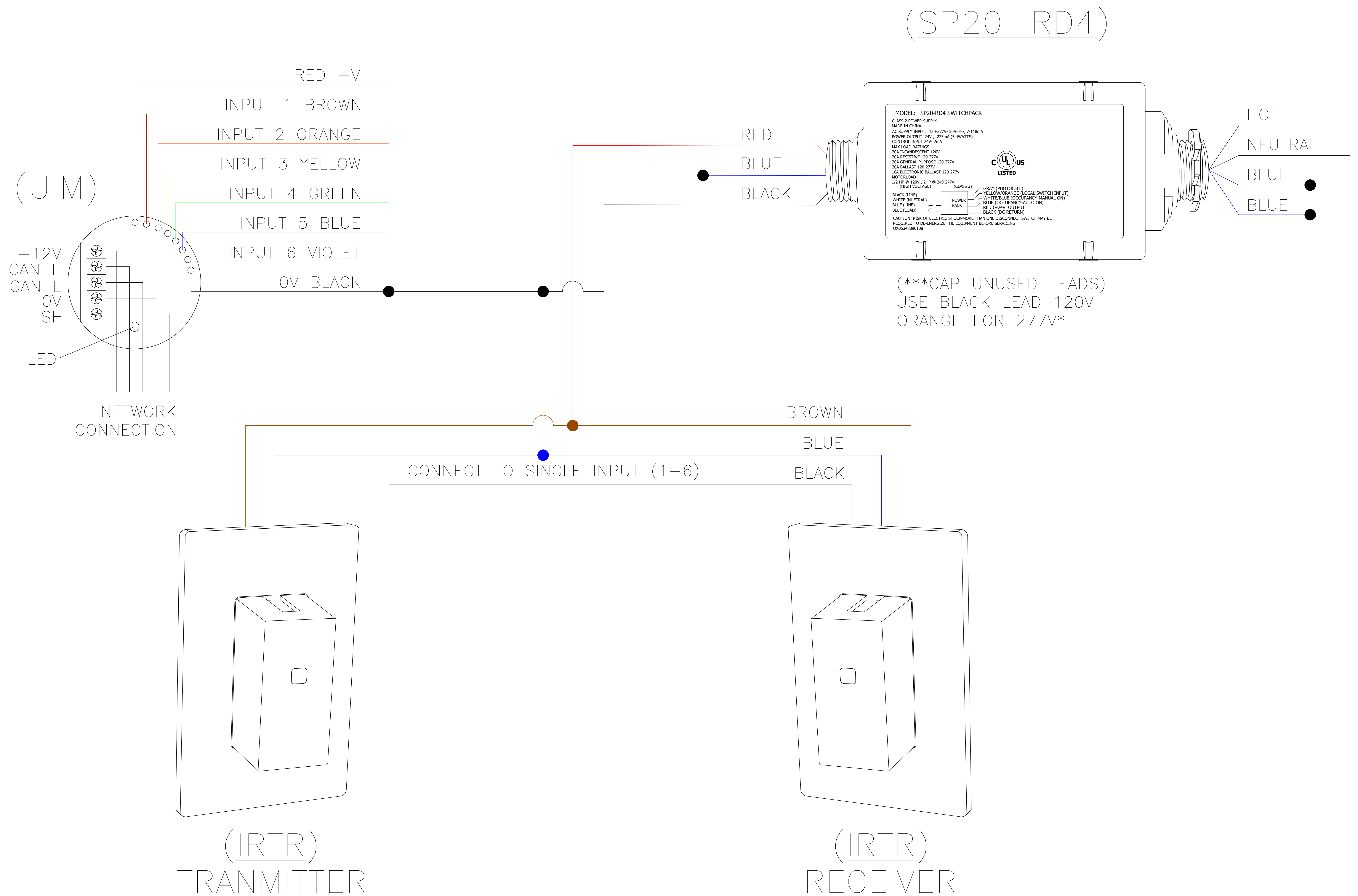
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12

UIM – IRTR & SP20-RD4
 (1) UIM (1) SP20-RD4 (2) IRTR

WaveLinx Wired
 Wiring Diagram

UIM
 with IRTR & SP20-RD4

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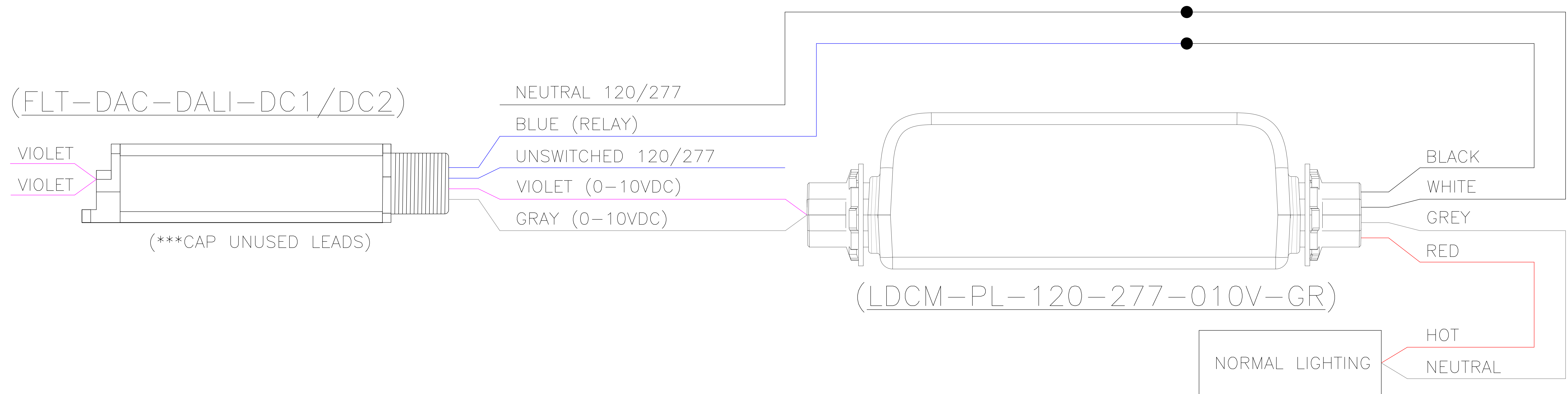
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13 DAC w/LDCM for ELV DIMMING
 (1) FLT-DAC-DALI-DC1/DC2 (1) LDCM-PL-120-277-010V-GR

WaveLinx Wired
Wiring Diagram

DAC
with LDCM for ELV Dimming

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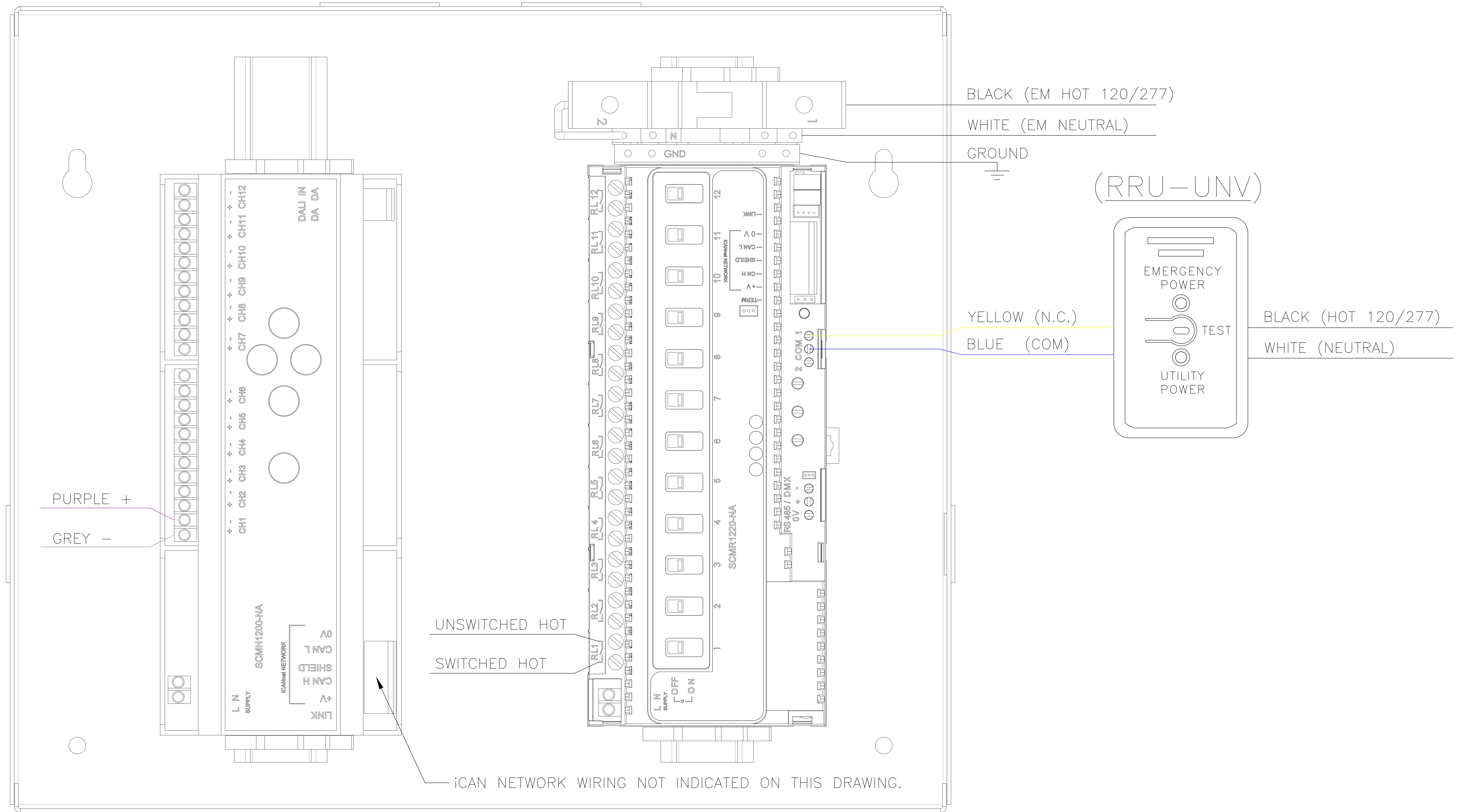
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(ILS-1100)
 (12) RELAYS (12) 0-10V DIM ZONES



14 RRU - PANEL OVERRIDE (Single Phase Monitoring)
 (1) IL* PANEL (1) RRU-UNV

WaveLinx Wired
 Wiring Diagram

RRU PANEL OVERRIDE
 Single Phase Monitoring

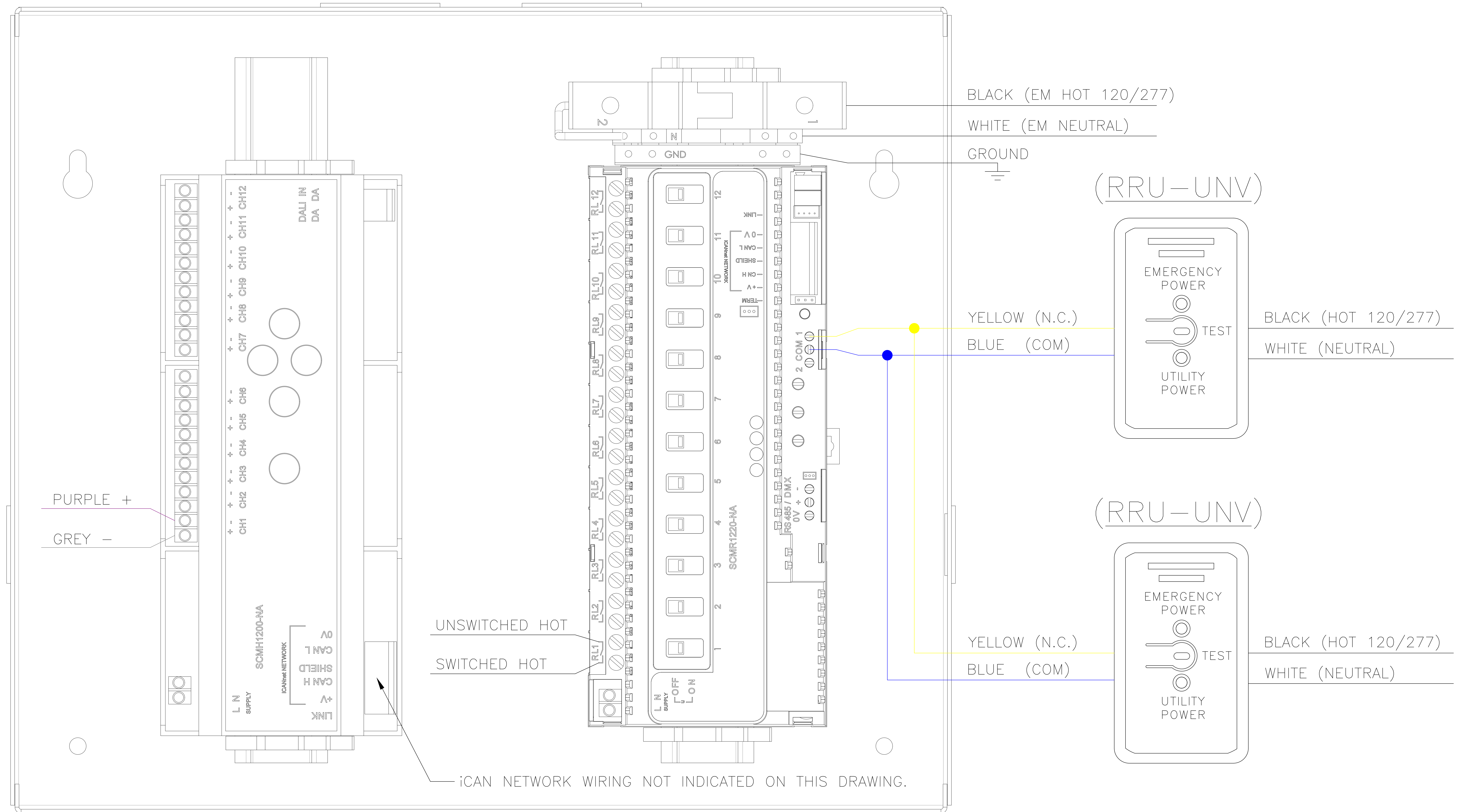
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(ILS-1100)
 (12) RELAYS (12) 0-10V DIM ZONES



15 RRU - PANEL OVERRIDE (Two Phase Monitoring)
 (1) IL* PANEL (2) RRU-UNV

WaveLinx Wired
 Wiring Diagram

RRU PANEL OVERRIDE
 Two Phase Monitoring

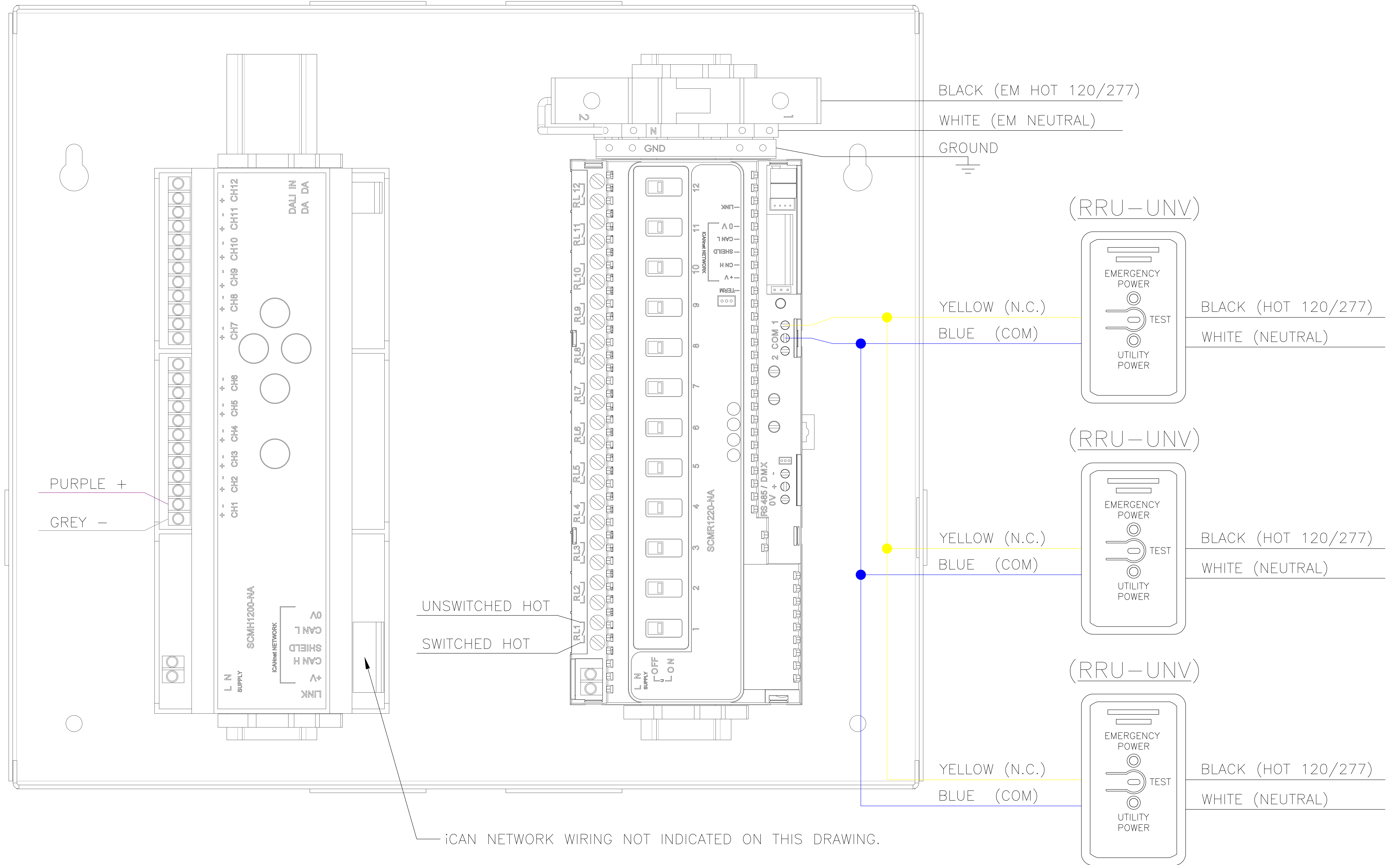
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(ILS-1100)
 (12) RELAYS (12) 0-10V DIM ZONES



16 RRU - PANEL OVERRIDE (Three Phase Monitoring)
 (1) IL* PANEL (3) RRU-UNV

WaveLinx Wired
 Wiring Diagram

RRU PANEL OVERRIDE
 Three Phase Monitoring

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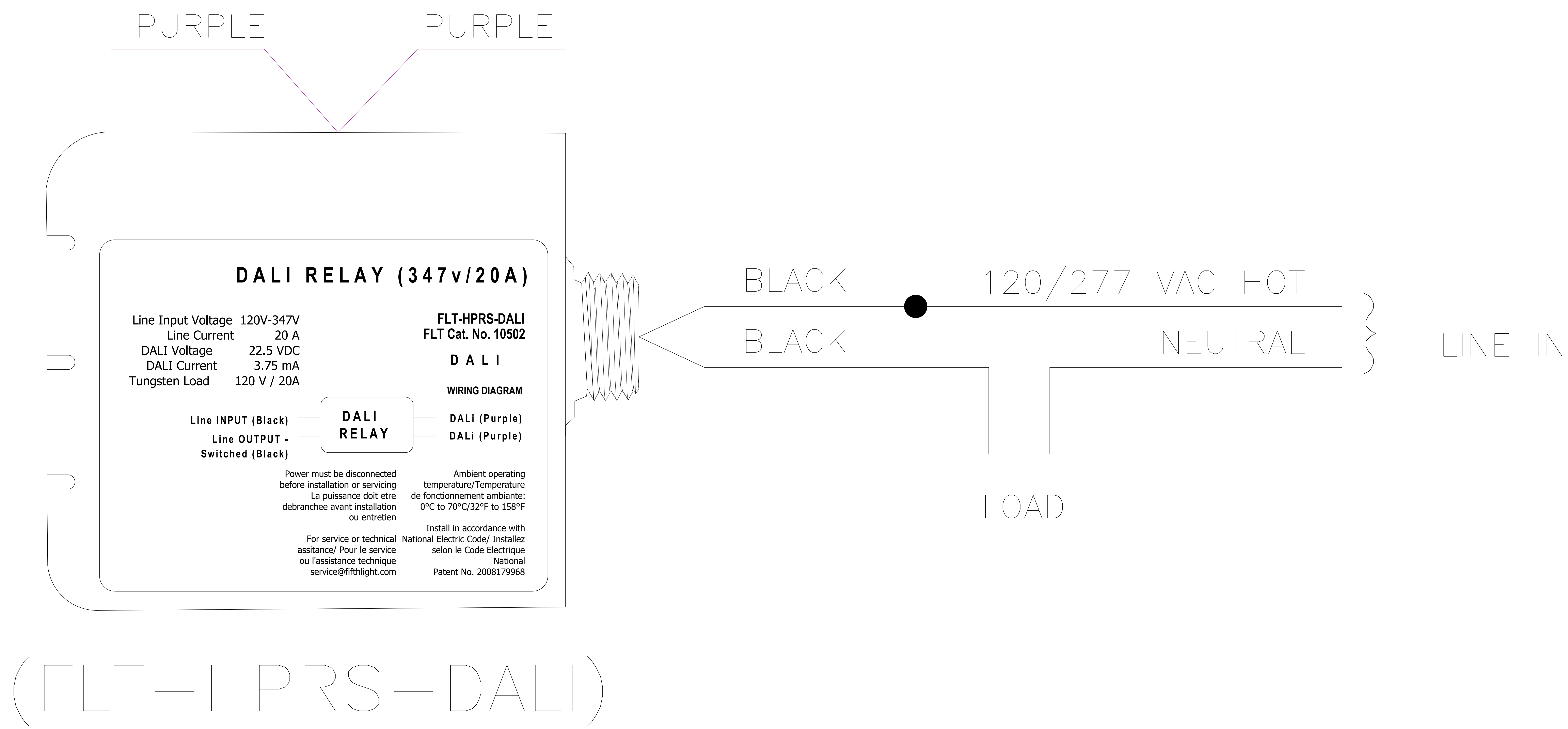
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17 FIELD RELAY – NORMAL LIGHTING
(1) FLT-HPRS-DALI

WaveLinx Wired
Wiring Diagram

FIELD RELAY
Normal Lighting

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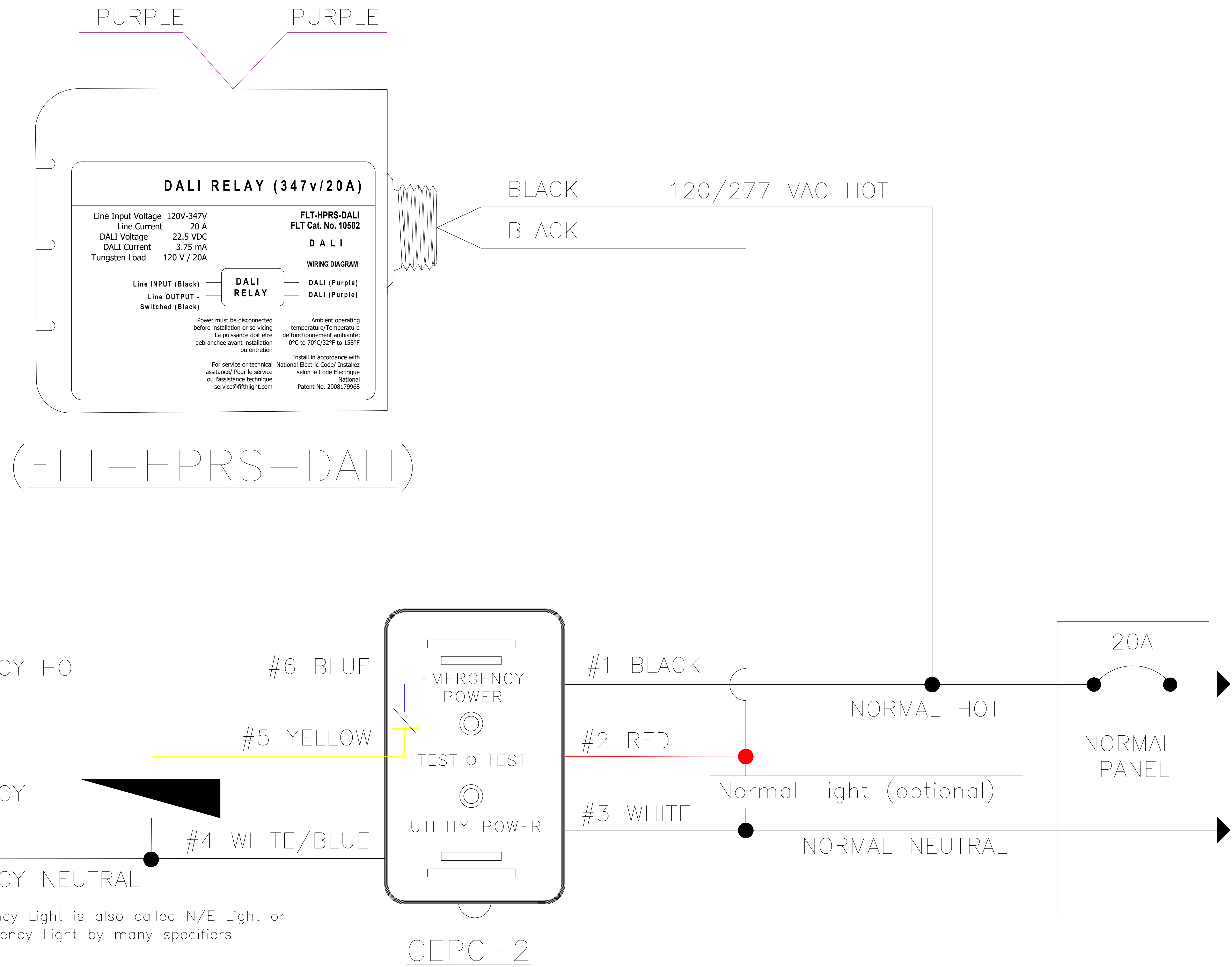
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18 FIELD RELAY – NORMAL/EMERGENCY LIGHTING
 (1) FLT-HPRS-DALI (1) CEPC-2

WaveLinx Wired
 Wiring Diagram

FIELD RELAY
 Normal/Emergency Lighting

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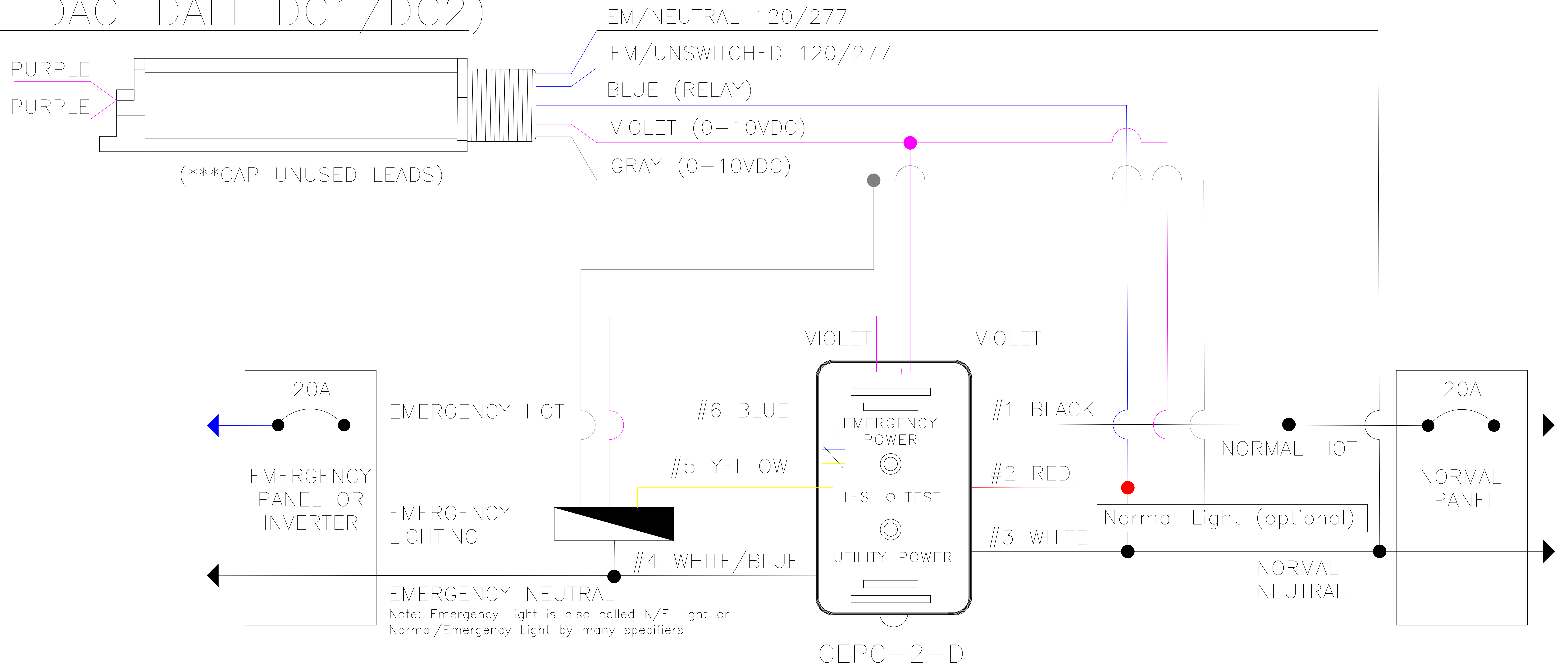
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(FLT-DAC-DALI-DC1/DC2)



19 DAC - EMERGENCY TRANSFER
 (1) FLT-DAC-DALI-DC1/DC2 (1) CEPC-2-D

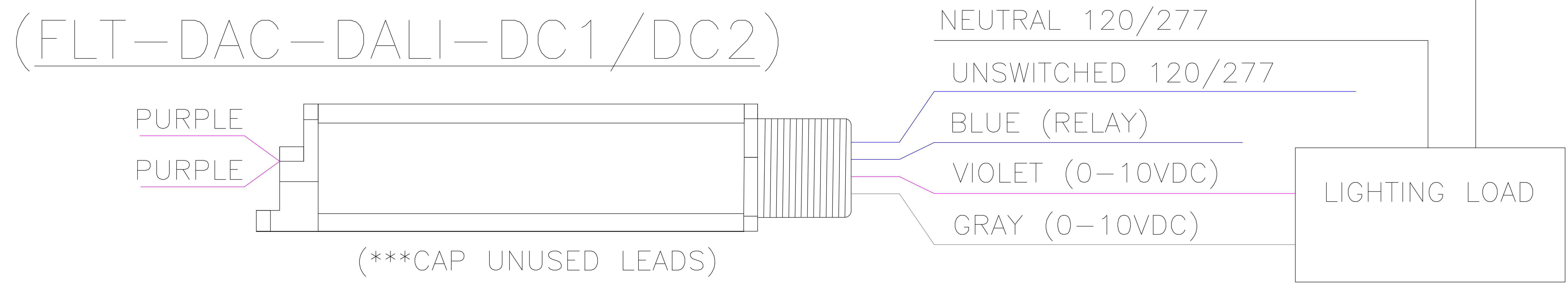
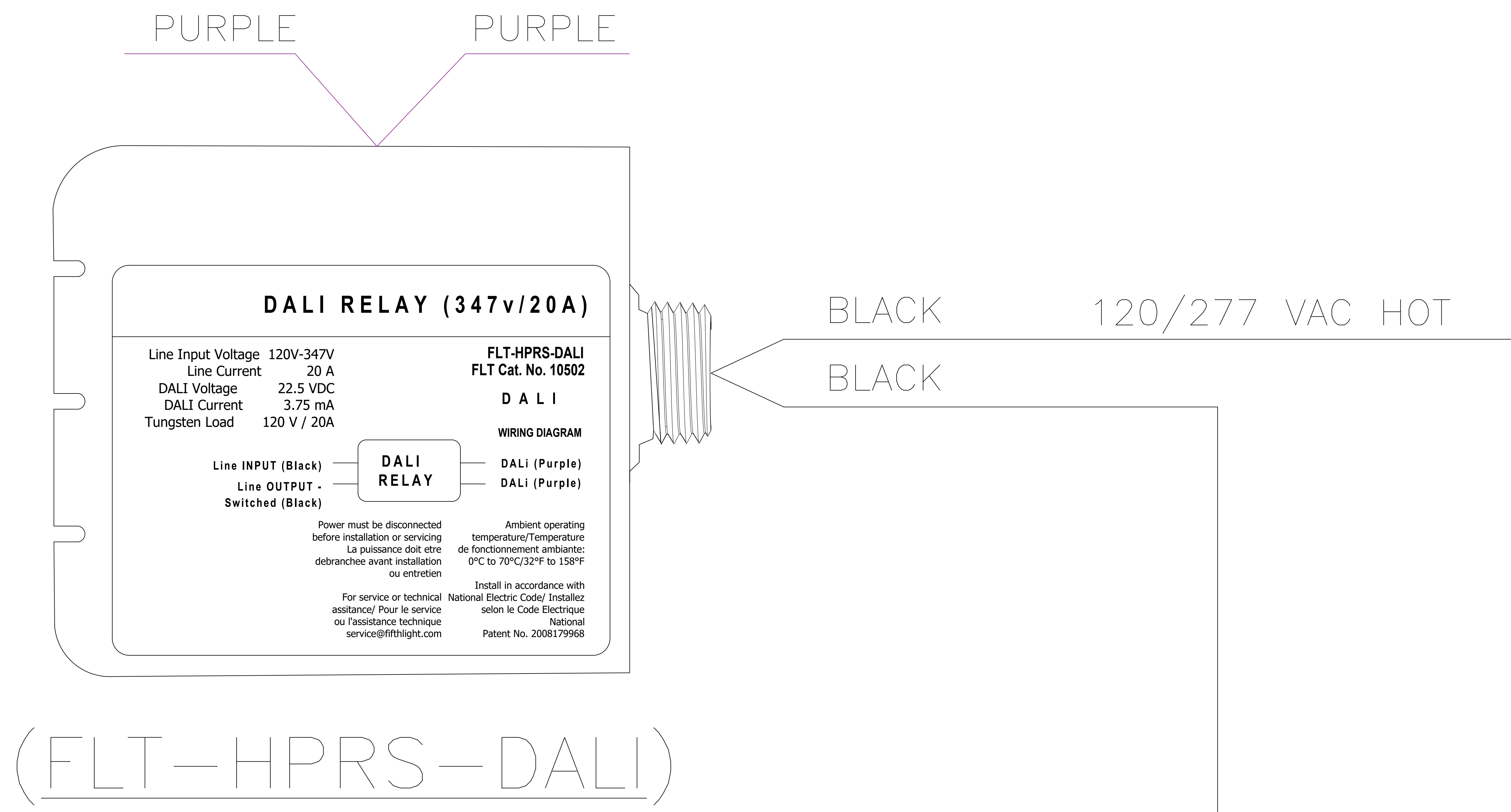
WaveLinx Wired Wiring Diagram
DAC Emergency Transfer

PROJECT #:		
REV #: 0	DRAWN BY: BP	DATE: 11/10/2021
SHEET#: 1/1	SHEET SIZE: 8" X 11"	SCALE: NTS

COOPER
Lighting Solutions
1121 HIGHWAY 74 SOUTH, PEACHTREE CITY, GA, 30269 TEL:770-486-4800

GENERAL NOTES
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20 DAC/FIELD RELAY – NORMAL LIGHTING
 (1) FLT-DAC-DALI-DC1/DC2 (1) FLT-HPRS-DALI

WaveLinx Wired
 Wiring Diagram

DAC/FIELD RELAY
 Normal Lighting

PROJECT #:		
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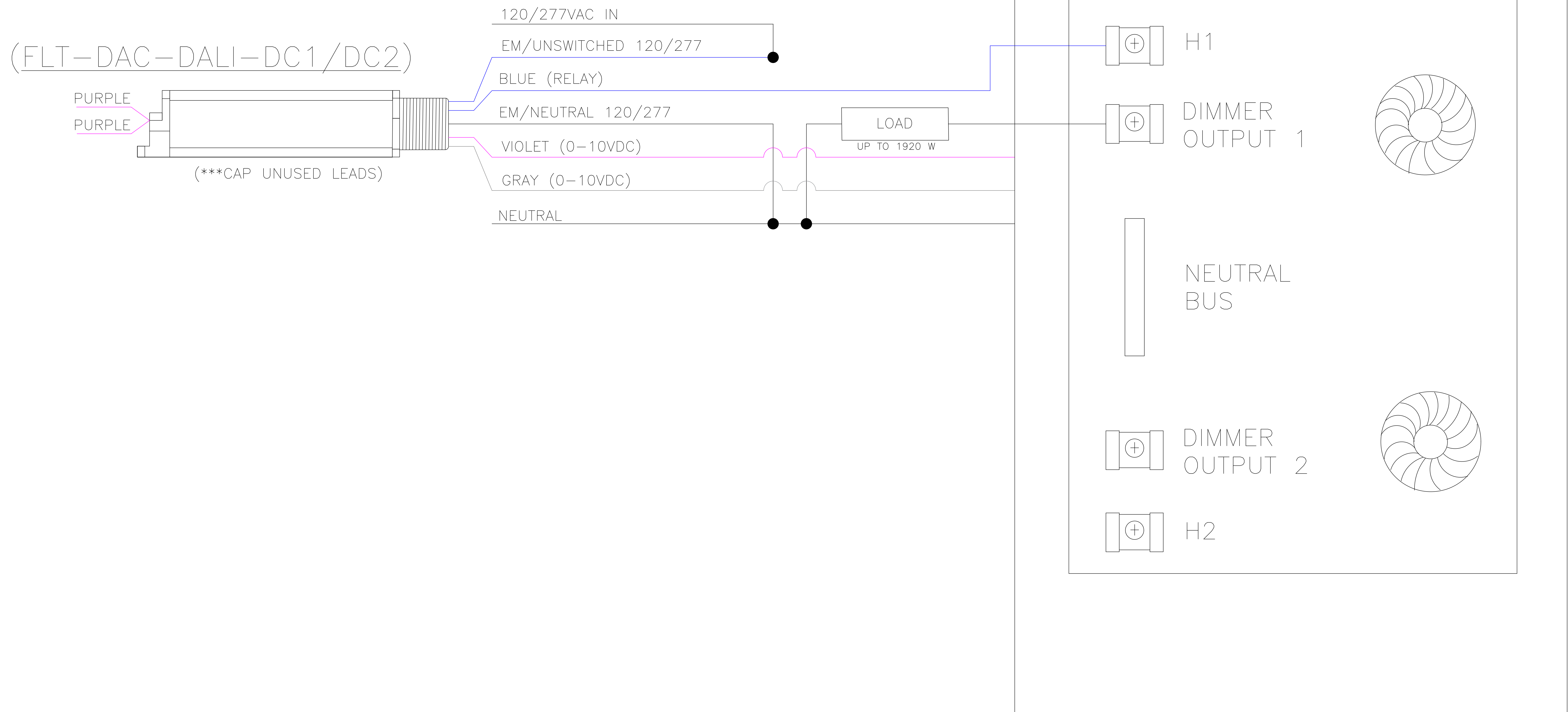
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PD216-AN10-120
 PD216-AN10-277
 2 CIRCUIT 20A POWER DIMMER



21 DAC - MLV DIMMING
 (1) FLT-DAC-DALI-DC1/DC2 (1) PD216 (2-WIRE)

WaveLinx Wired
 Wiring Diagram

DAC/PD216
 MLV 2-WIRE DIMMING

PROJECT #:		
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SHEET#: 1/1	SHEET SIZE: 8" X 11"	SCALE: NTS



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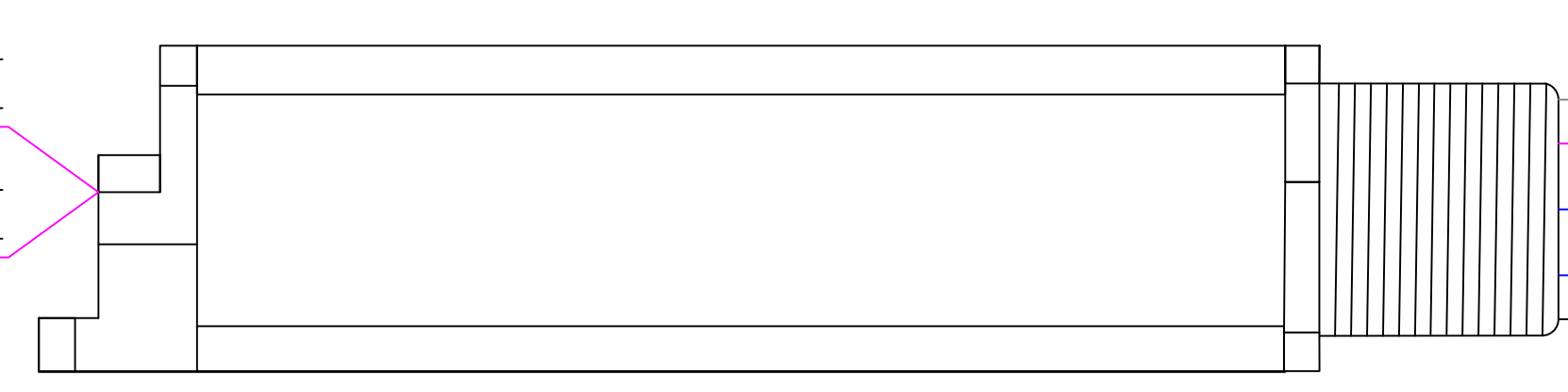
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(PD216-AN10-3W-120)
 (PD216-AN10-3W-277)
 2 CIRCUIT 20A
 3 WIRE POWER DIMMER

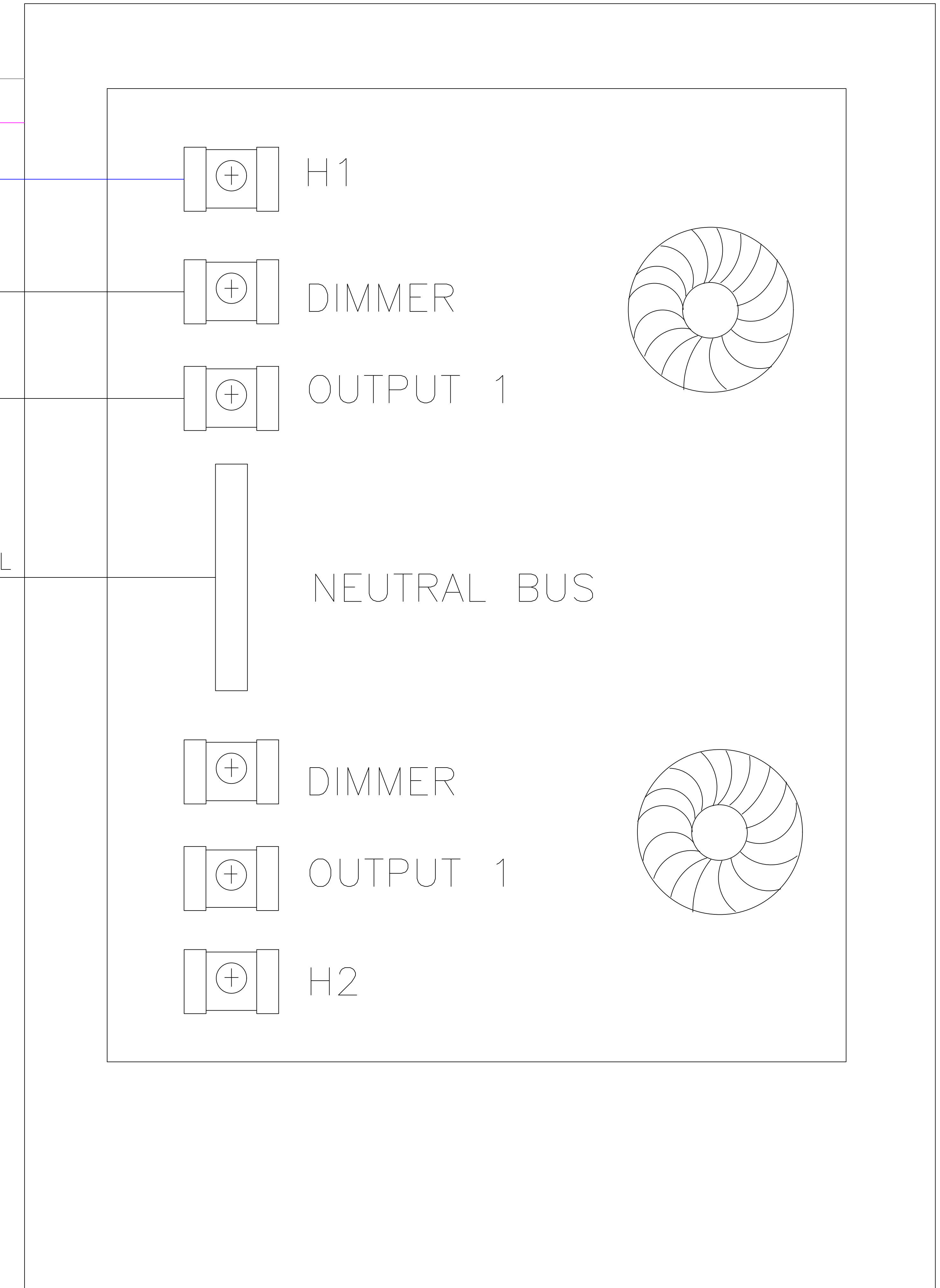
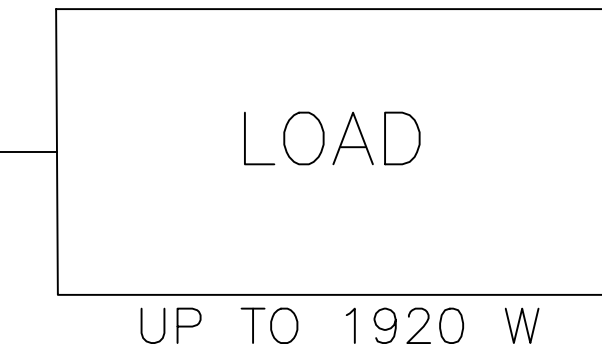
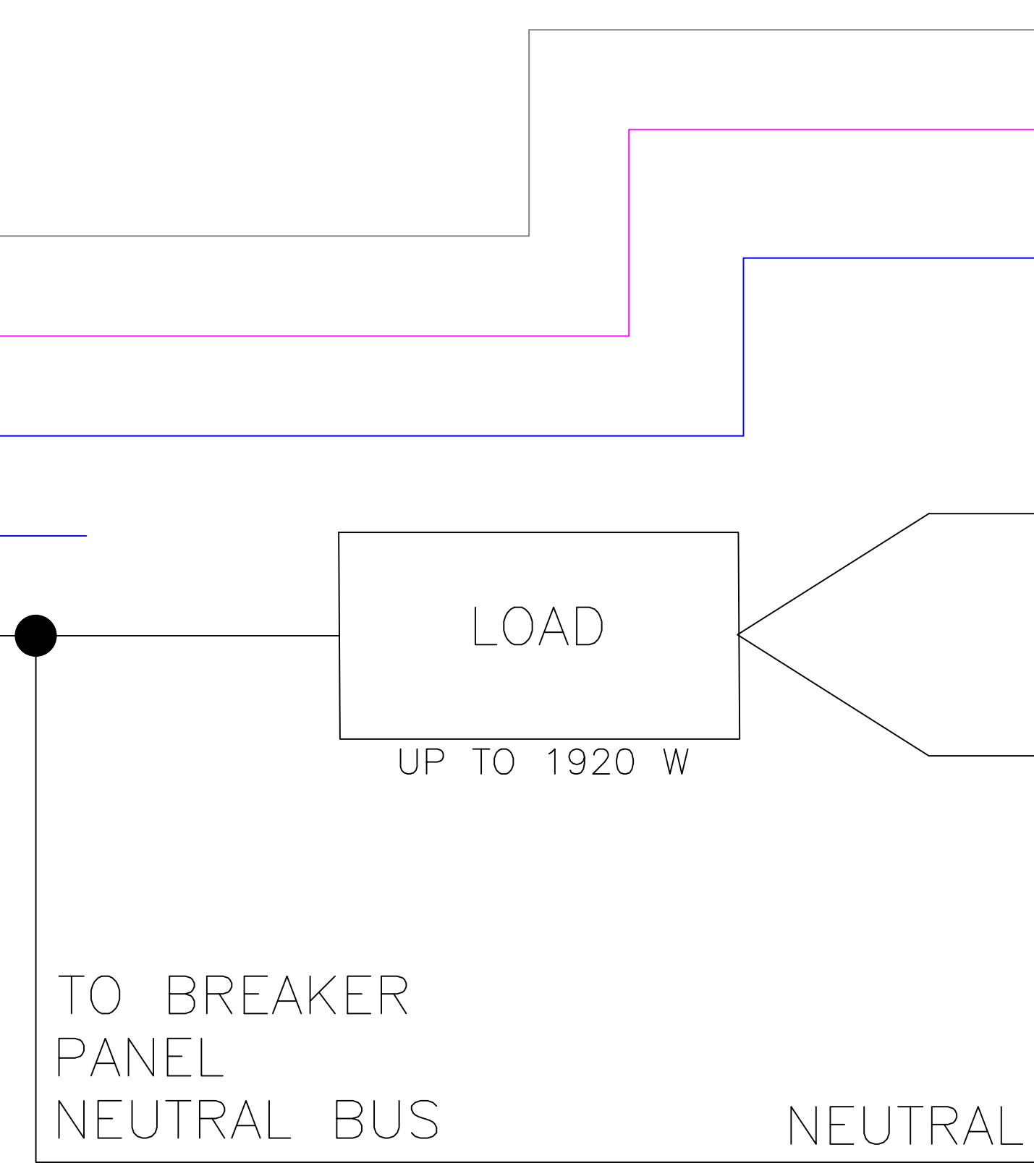
(FLT-DAC-DALI-DC1/DC2)

PURPLE
 PURPLE



(**CAP UNUSED LEADS)

GRAY (0-10VDC)
 VIOLET (0-10VDC)
 BLUE (RELAY)
 EM/UNSWITCHED 120/277
 EM/NEUTRAL 120/277



22 DAC - MLV DIMMING
 (1) FLT-DAC-DALI-DC1/DC2 (1) PD216 (3-WIRE)

WaveLinx Wired
 Wiring Diagram

DAC/PD216
 MLV 3-WIRE DIMMING

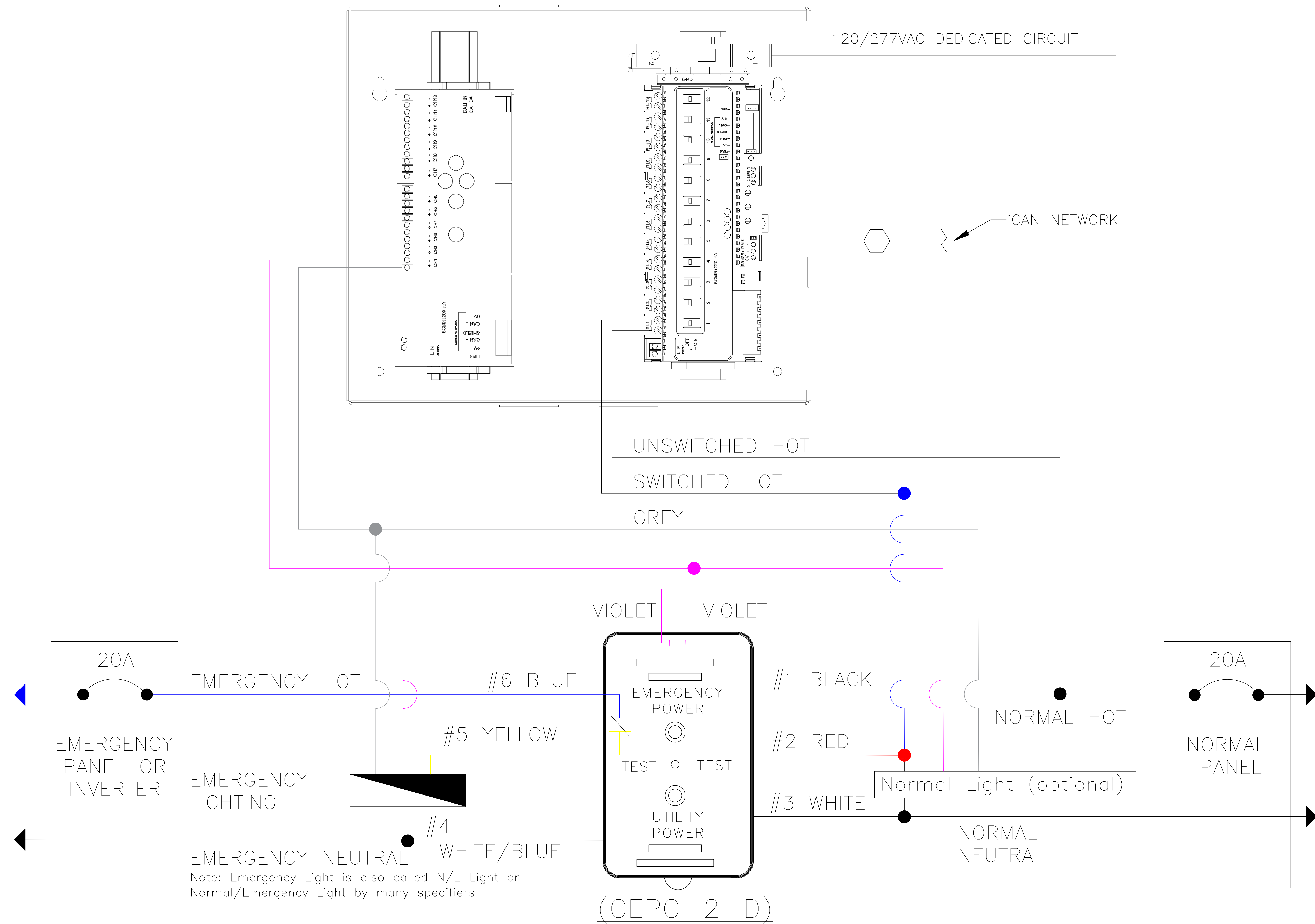
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REV #: 0	DRAWN BY: BP	DATE: 11/10/2021
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(ILS-1100)
 (12) RELAYS (12) 0-10V DIM ZONES



23 PANEL WITH EMERGENCY DIMMING
 (1) IL* PANEL (1) CEPC-2-D

WaveLinx Wired
 Wiring Diagram

PANEL W/ CEPC-2-D
 Emergency Dimming

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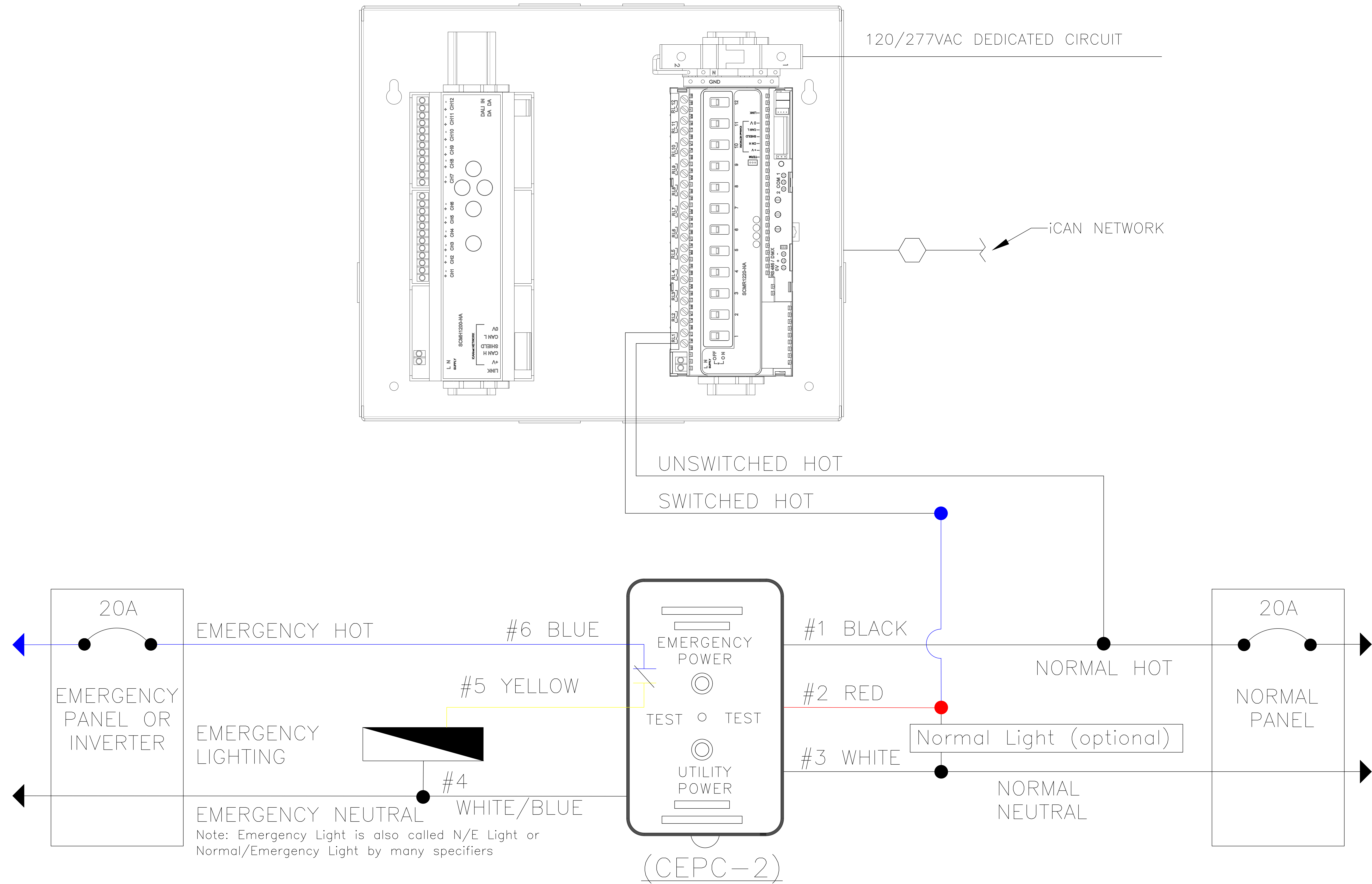
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(ILS-1100)
 (12) RELAYS (12) 0-10V DIM ZONES



24 PANEL WITH EMERGENCY
 (1) IL* PANEL (1) CEPC-2

WaveLinx Wired
 Wiring Diagram

PANEL W/ CEPC-2
 EMERGENCY CONTROL

PROJECT #:		
REV #: 0	DRAWN BY: BP	DATE: 11/10/2021
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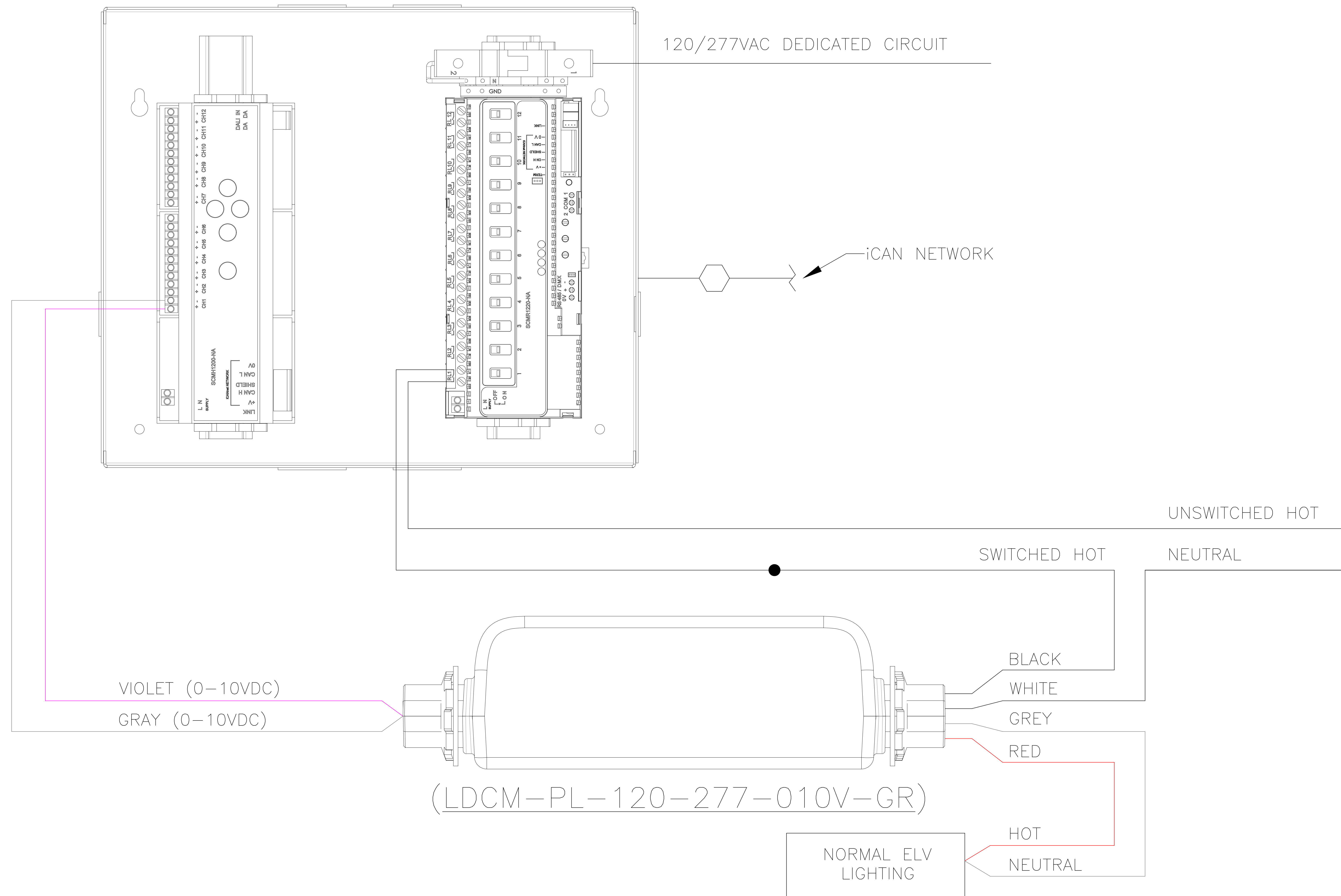
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(ILS-1100)
 (12) RELAYS (12) 0-10V DIM ZONES



25 PANEL WITH LDCM FOR ELV DIMMING
 (1) IL* PANEL (1) LDCM-PL-120-277-010V-GR

WaveLinx Wired
 Wiring Diagram

PANEL W/ LDCM
 ELV DIMMING

PROJECT #:		
REV #: 0	DRAWN BY: BP	DATE: 11/10/2021
SHEET#: 1/1	SHEET SIZE: 8" X 11"	SCALE: NTS



COOPER
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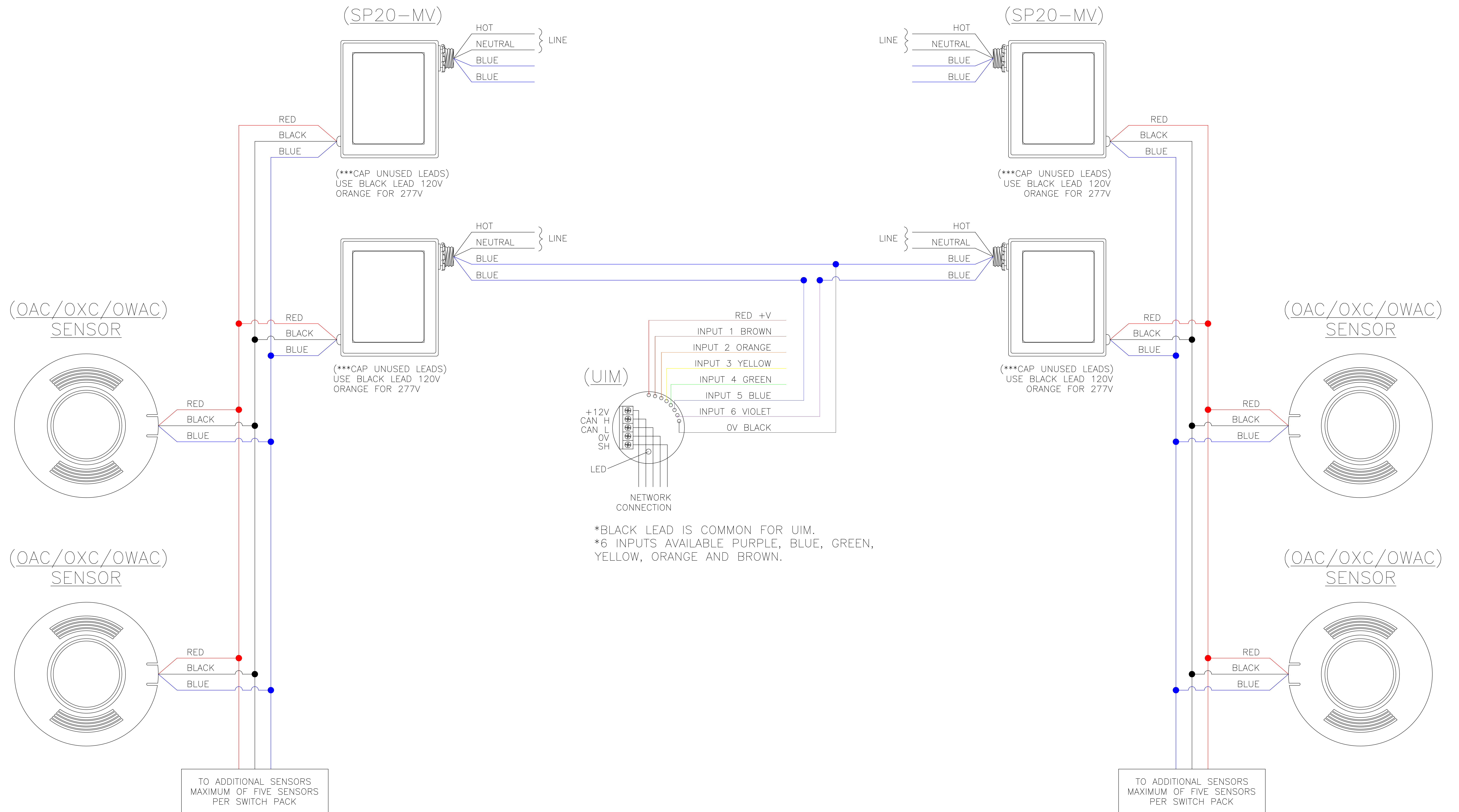
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26 UIM WITH MULTIPLE SP20-MV AND GREENGATE SENSORS
(1) UIM (14) OAC/OXC/OWAC SENSOR (4) SP20-MV

WaveLinx Wired
Wiring Diagram

UIM with Multiple
SP20-MV & GreenGate Sensors

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GENERAL NOTES

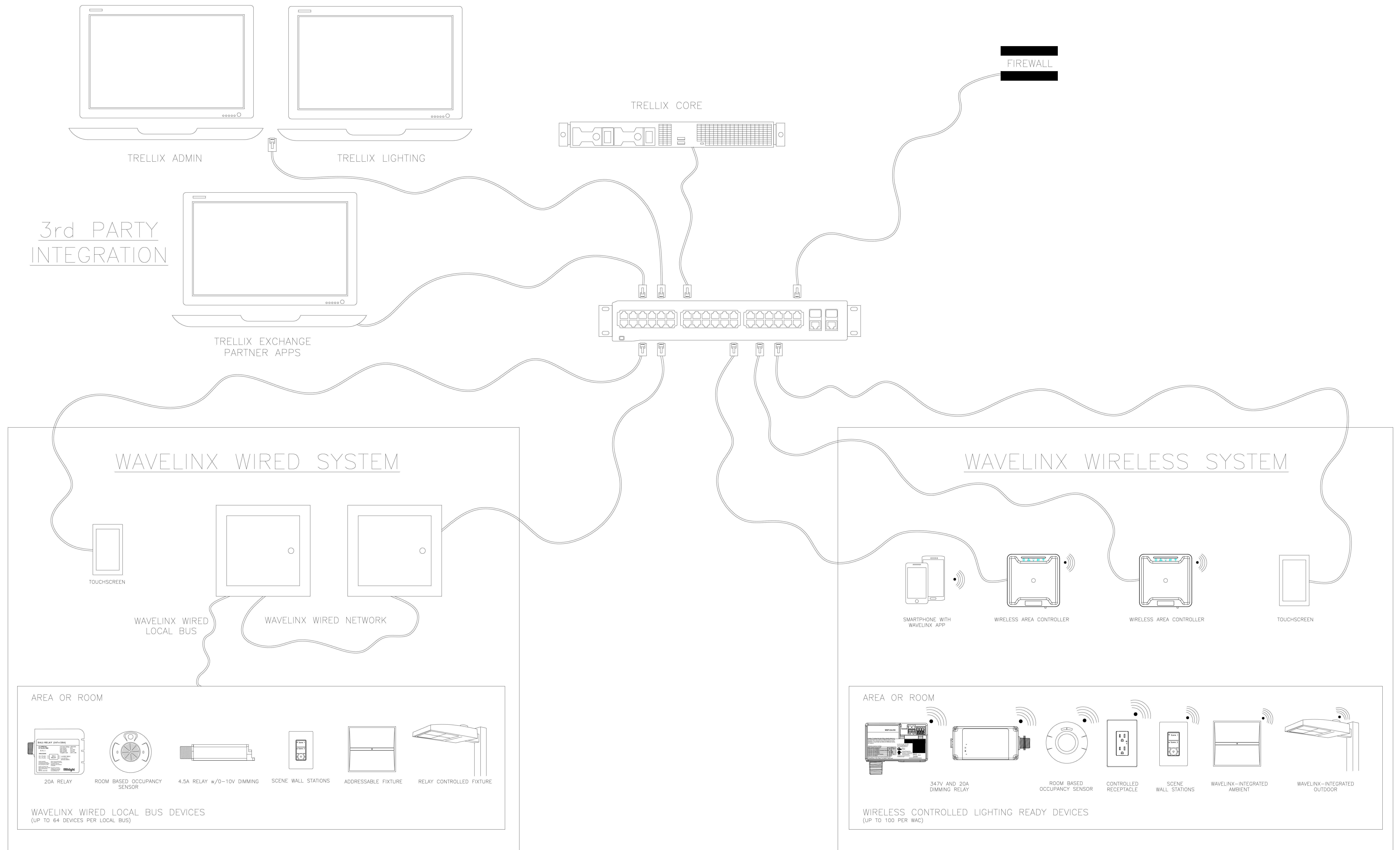
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SMART LIGHTING APPS

*** THIS DRAWING IS FOR CONCEPT ONLY. IT DOES NOT SHOW ALL PARTS AND PIECES NEEDED FOR A FULLY OPERATING SYSTEM.



WAVELINX WIRED & WIRELESS SYSTEM OVERVIEW

WaveLinx Wired
Wiring Diagram

PROJECT #:		
REV #: 0	DRAWN BY: BP	DATE: 11/10/2021
SHEET#: 1/1	SHEET SIZE: 8" X 11"	SCALE: NTS



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GENERAL NOTES

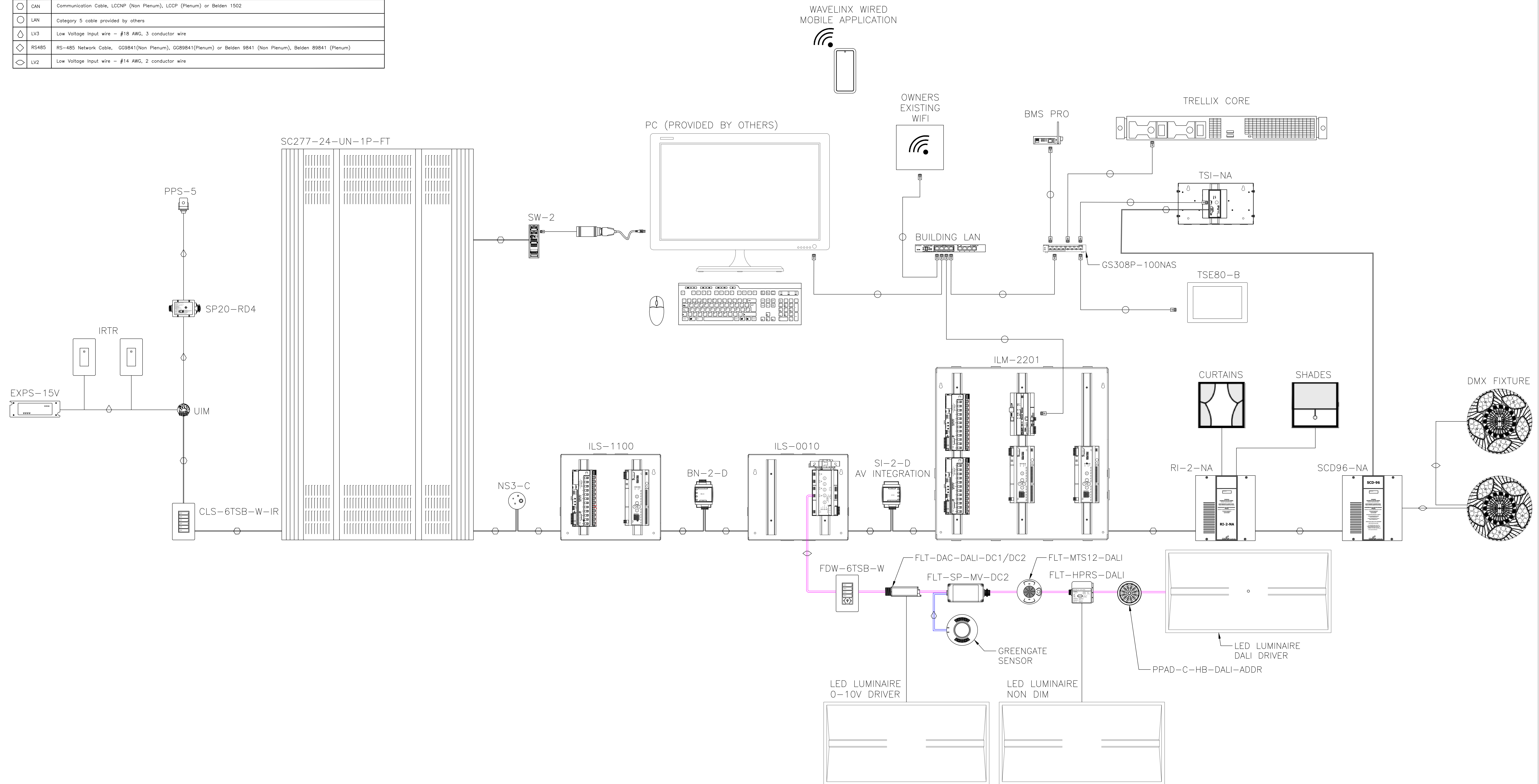
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CABLES

□	RS232	RS-232 Cable (6 feet), provided with product
○	CAN	Communication Cable, LCCNP (Non Plenum), LCCP (Plenum) or Belden 1502
○	LAN	Category 5 cable provided by others
◇	LV3	Low Voltage Input wire - #18 AWG, 3 conductor wire
◇	RS485	RS-485 Network Cable, GG8841(Non Plenum), GG89841(Plenum) or Belden 9841 (Non Plenum), Belden 89841 (Plenum)
◇	LV2	Low Voltage Input wire - #14 AWG, 2 conductor wire



28

WAVELINX WIRED SYSTEM TYPICAL ONE-LINE

WaveLinx Wired
Wiring Diagram

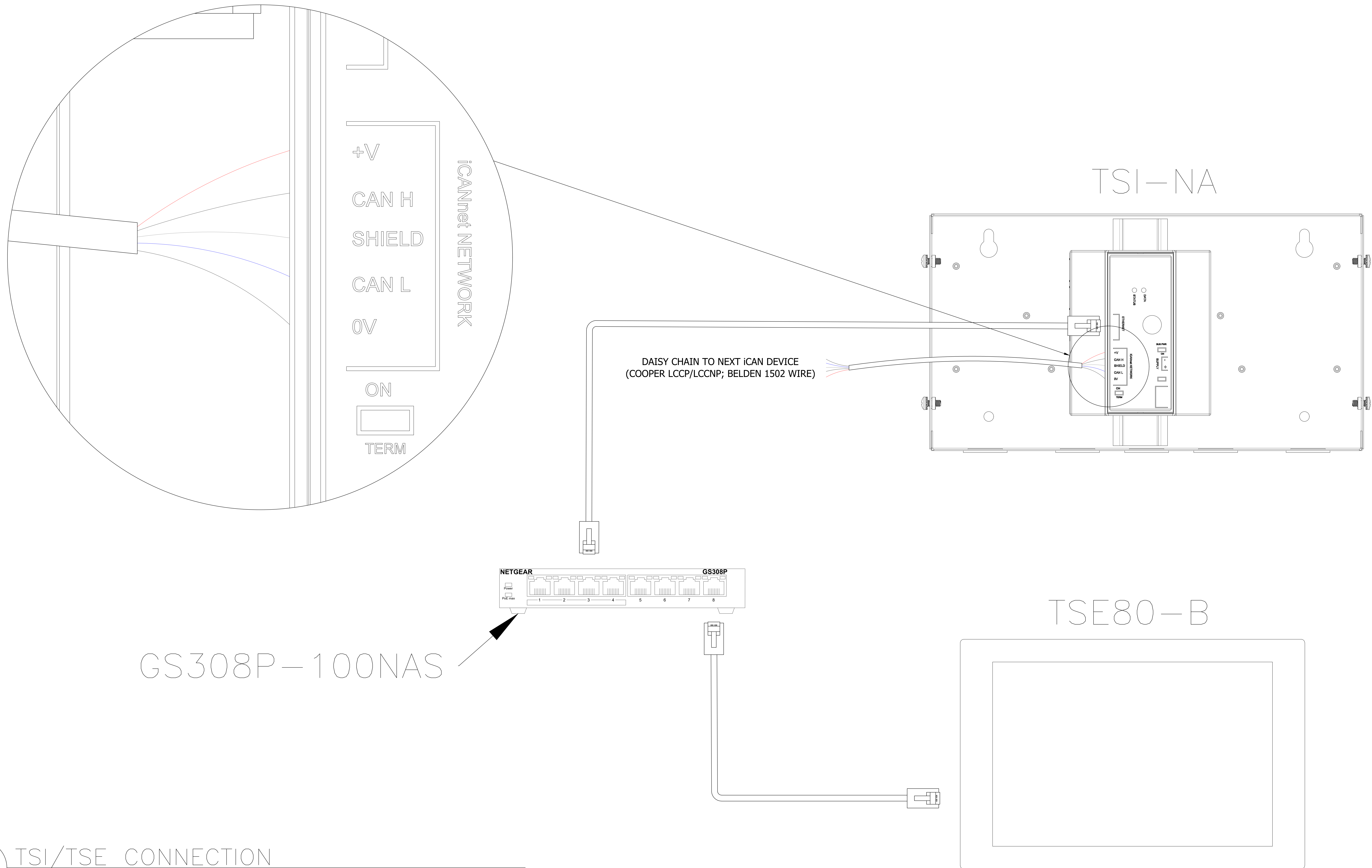
WAVELINX WIRED
Typical One-Line

PROJECT #:		
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GS308P-100NAS

29 TSI/TSE CONNECTION
 (1) TSI (1) TSE-* (1) GS308P-100NAS

WaveLinx Wired
 Wiring Diagram

TSI & TSE
 Connection Detail

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