

PHOTO DIODE SENSOR

- LOCATION/MOUNTING**
A PHOTO DIODE SENSOR SHALL BE MOUNTED IN A WATER-TIGHT ENCLOSURE ON THE NORTHERN MOST SIDE OF THE BUILDING. THE PHOTO DIODE MUST BE MOUNTED IN THE PROPER ORIENTATION. THE WATER-TIGHT ENCLOSURE SHALL BE MOUNTED USING THE APPROPRIATE WALL ANCHORS. ANY EXTERIOR WALL PENETRATION SHALL BE SEALED PROPERLY WITH WEATHER-TIGHT CAULK/SILICON.
- CONNECTIONS**
THE PHOTO DIODE LEADS MUST BE EXTENDED USING 18-24 AWG SHIELDED TWISTED PAIR CABLE, AND ROUTED BACK TO THE LCP-2 TERMINALS. TERMINALS ARE POLARITY SENSITIVE.

LCP-2 (LOAD CONTROL PANEL) - NOT APPLICABLE FOR SITES CONTAINING EXISTING SMART LIGHTING CONTROLS

- LOCATION/MOUNTING**
(1) LCP-2 SHALL BE MOUNTED WITHIN THE ELECTRICAL ROOM.
THE LCP-2 SHALL BE MOUNTED USING THE APPROPRIATE WALL ANCHORS.
- POWER REQUIREMENTS**
THE 120 VAC POWER SOURCE FOR THE LCP-2 MUST BE OBTAINED FROM A DEDICATED 15-20 AMP SINGLE POLE BREAKER.
HIGH VOLTAGE KNOCKOUTS FOR THE LCP-2 ARE LOCATED ON THE SIDE/BOTTOM OF THE CABINET ENCLOSURE. WHEN USING SIDE KNOCKOUTS THE INSTALLER SHALL ONLY UTILIZE KNOCKOUTS BELOW THE GROUNDING BAR WITHIN THE LCP-2 CABINET.
LOW VOLTAGE KNOCKOUTS FOR THE LCP-2 ARE LOCATED ON THE TOP OF THE CABINET ENCLOSURE.
- CONNECTIONS**
THE LCP-2 SHALL CONTROL THE FOLLOWING:
 - EXTERIOR SIGNS AND BUILDING LIGHTING
 - EXTERIOR PARKING LOT LIGHTS
 - INTERIOR LIGHTING
 THE LIGHTING ZONES SHALL BE SEPARATED PER THE SCW. LINE AND LOAD WIRING SHALL BE ROUTED FROM THE ELECTRICAL PANEL CONTAINING THE CIRCUITS TO BE CONTROLLED BACK TO THE LCP-2. SINCE THE LCP-2 DOES NOT REQUIRE NEUTRAL WIRES, LINE AND LOAD WIRING MUST ENTER AND EXIT THE LCP-2 THROUGH THE SAME CONDUIT. LINE SIDE WIRING IS ON THE LEFT SIDE OF THE CONTACTORS AND LOAD SIDE WIRING IS ON THE RIGHT SIDE OF THE CONTACTORS.
DO NOT BREACH CONDUIT WIRING CAPACITY, AND INSTALL ADDITIONAL CONDUIT IF NEEDED TO CONTAIN LINE AND LOAD PAIRS.
- COMMUNICATION**
RS-485 CONNECTIONS SHALL BE OBTAINED USING THE A+/B- TERMINALS USING CAT5E CABLE AND WIRED BACK TO AN OPEN CHAIN OF THE MUB.
- LABELING**
THE LCP-2 SHALL BE LABELED PER POWER SOURCE. THE LABEL SHALL BE APPLIED TO THE FRONT CABINET DOOR.

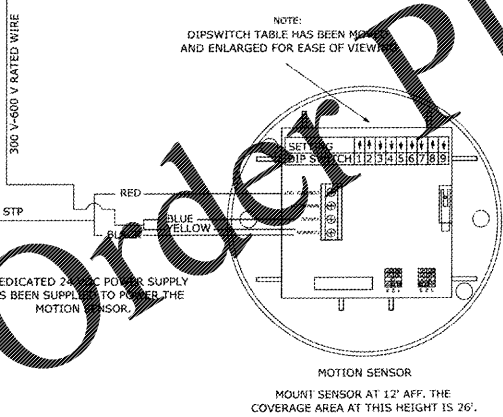
Terminal	Load Description
10	Sign/Building Exterior
11	Exterior Lighting
12	Sign

CONTACTOR SCHEDULE

FOR ANY SITES THAT REQUIRE MORE THAN 6 CONTACTORS A SECOND LCP-2 WILL BE REQUIRED.

NOTE:
IF THE BUILDING IS <= 10K SQFT
INSTALL 2 MOTION SENSORS
IF THE BUILDING IS > 10K SQFT
INSTALL 3 MOTION SENSORS

HOMERUN TO 24VDC POWER SUPPLY



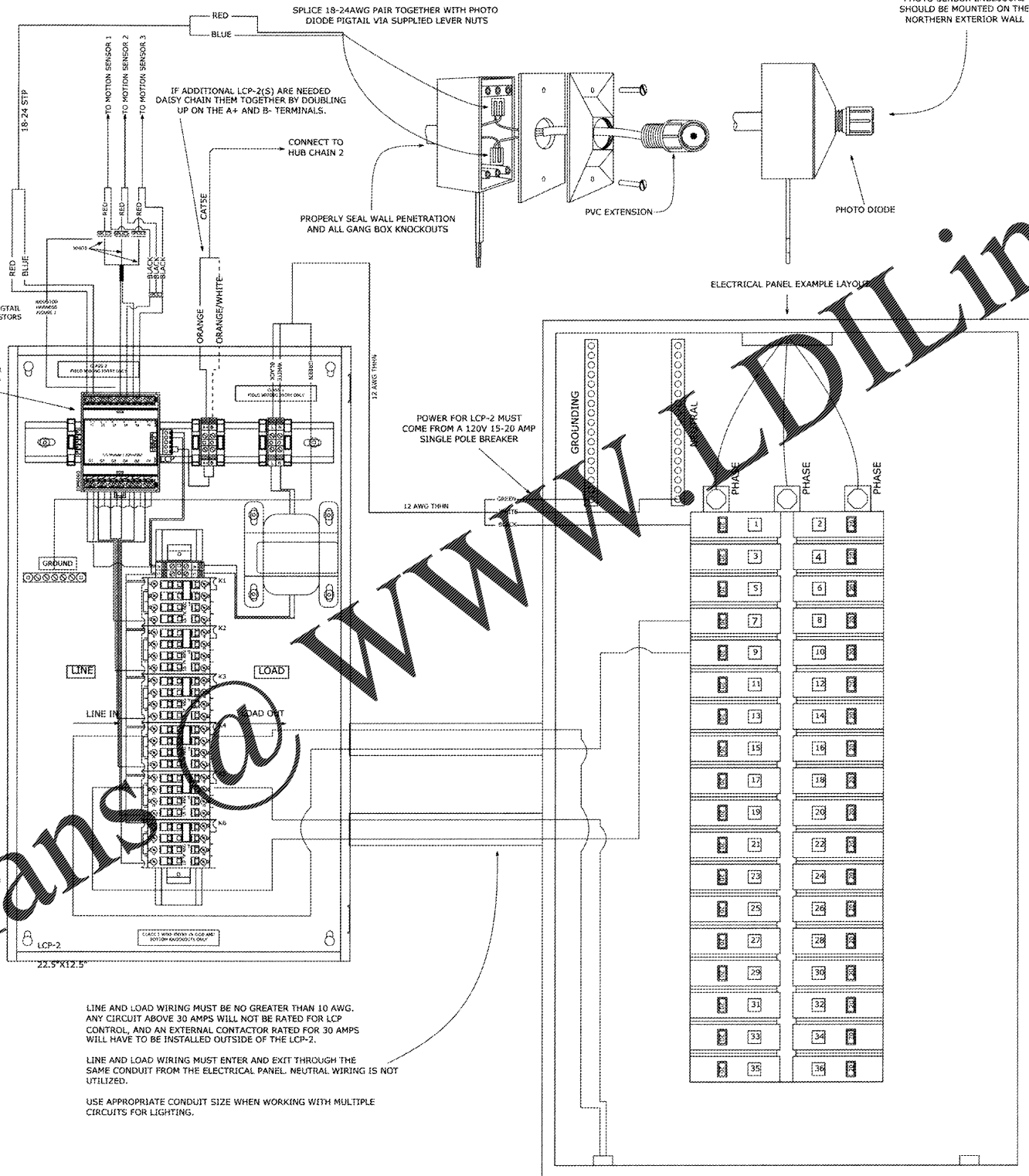
LINE AND LOAD WIRING MUST BE NO GREATER THAN 10 AWG. ANY CIRCUIT ABOVE 30 AMPS WILL NOT BE RATED FOR LCP CONTROL, AND AN EXTERNAL CONTACTOR RATED FOR 30 AMPS WILL HAVE TO BE INSTALLED OUTSIDE OF THE LCP-2.

LINE AND LOAD WIRING MUST ENTER AND EXIT THROUGH THE SAME CONDUIT FROM THE ELECTRICAL PANEL. NEUTRAL WIRING IS NOT UTILIZED.

USE APPROPRIATE CONDUIT SIZE WHEN WORKING WITH MULTIPLE CIRCUITS FOR LIGHTING.

NOTE: HARNESS IS A PRE-MADE PIGTAIL AND INCLUDES 2 1/2 W OHM RESISTORS

SET DIPSWITCHES FOR 14 AND 15 TO 4-20mA



O'REILLY PREFERRED ONE LINE DIAGRAM

5305 VALLEY PARK DRIVE SUITE # 2 - ROANOKE, VA 24019

GRIDPOINT CONTACT

PLEASE CONTACT GRIDPOINT INSTALLATION MANAGEMENT @ 866-800-8908 FOR INSTALLATION CONTACT BASED ON THE STORE LOCATION. EMAIL: SUPPORT@GRIDPOINT.COM

PRINTS ARE FOR:

DESIGN REVIEW PERMIT BIDDING CONSTRUCTION

BY: DC

DATE: 05/23/2019

REVISIONS:
DESCRIPTION: Rev 4 - Motion Sensor 24VDC

SHEET TITLE: LIGHTING CONTROL AND MOTION SENSOR

FILE NAME: O'REILLY PREFERRED ONE LINE DIAGRAM

DATE: 4/24/2019 DRAWN BY: DAVID COLWELL

SHEET NO:

EM 1.1

05-30-19
SHEET CHANGED IN ITS ENTIRETY.

DESIGN BY OTHERS FOR REFERENCE ONLY

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PROJECT:
NEW O'REILLY AUTO PARTS STORE
290 DEACON ROAD
FREDERICKSBURG, VA #4

GRIDPOINT EMS

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COMM # 4251
DATE: 11-02-18
REVISION DATE: 05-25-19, 05-30-19

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