

LEVITON

Applications Cookbook

GreenMAX® Relay Control System

Version 1.0

FOR REFERENCE ONLY

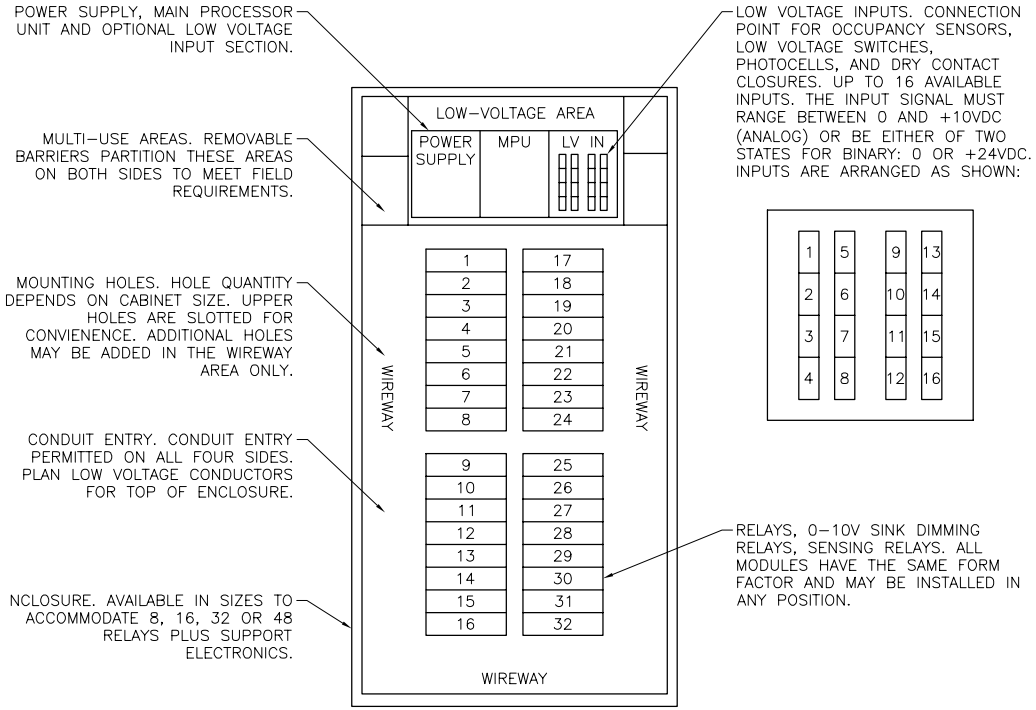
GREENMAX® COOKBOOK NOTES

GREENMAX TYPICAL CONNECTION SCENARIOS

This applications cookbook is a quick way to find GreenMAX relay panel layout and system design details. It includes the most frequently needed connection details for GreenMAX panels, relays, and control stations. There are also details that include connection of GreenMAX to single occupancy sensors, multiple occupancy sensors with power packs, photocells, and other devices. It is not an all-inclusive manual and does not present all features and limitations of the GreenMAX family of devices and equipment. Consult product literature for more information.

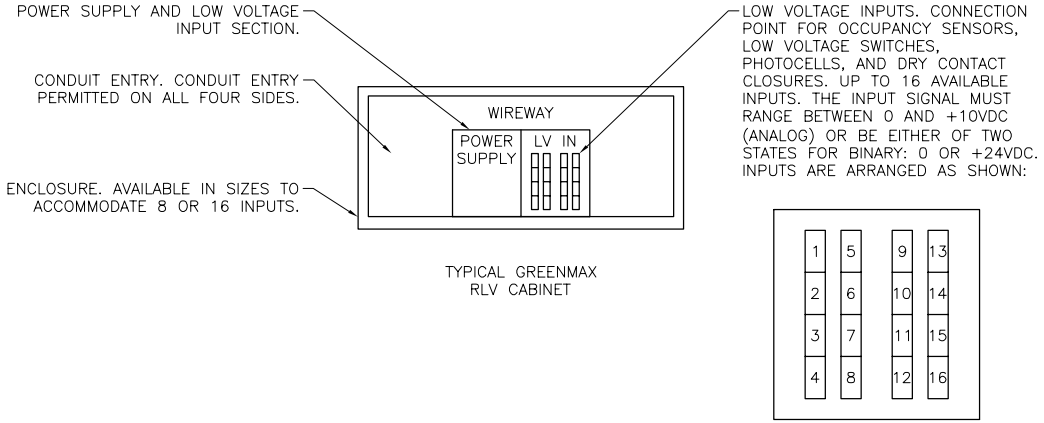
GreenMAX offers many options that can be configured to meet any facility's infrastructure needs. Contact Leviton to discuss creating an ideal system.

GREENMAX PANEL INSTALLATION OVERVIEW



TYPICAL GREENMAX
RELAY CABINET

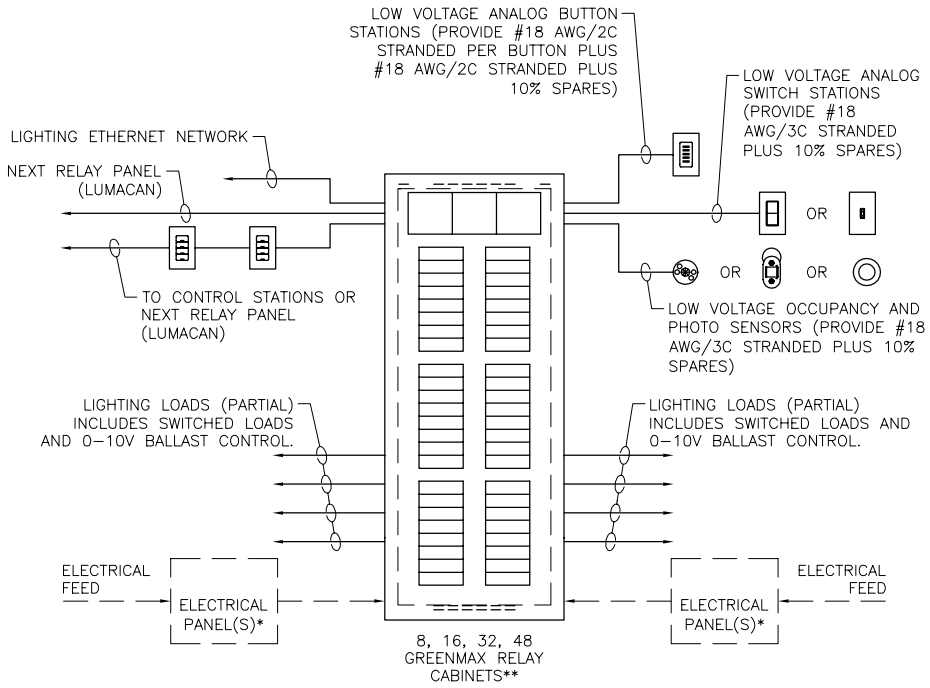
GREENMAX
RLV PANEL INSTALLATION OVERVIEW



TYPICAL GREENMAX
RLV CABINET

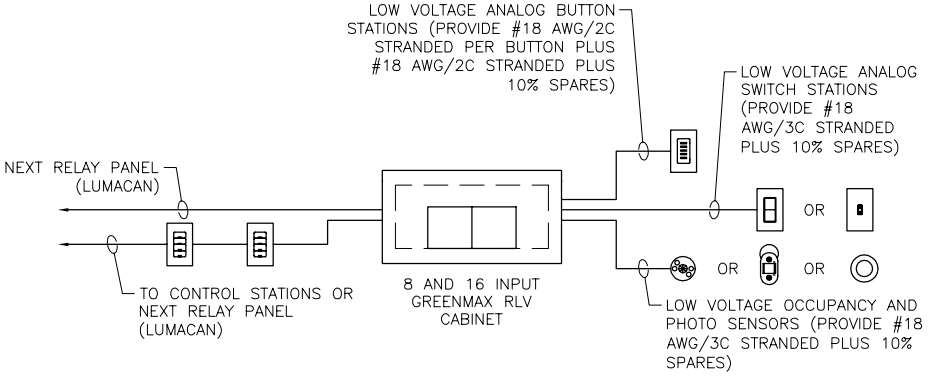
GREENMAX PANEL SYSTEM INTERCONNECTIONS ONE-LINE

GREENMAX
RELAY PANEL SYSTEM
INTERCONNECTIONS ONE–LINE



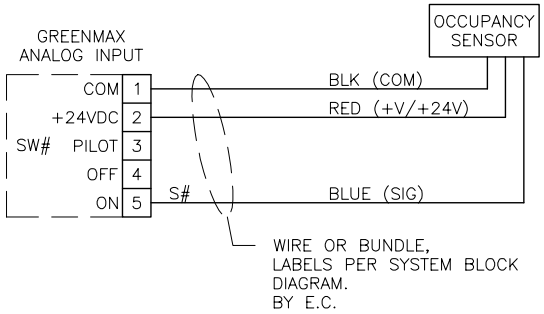
* BEST PRACTICES TO FEED SAME SIDE AS LOAD RELAY(S). CABINET HAS BOTTOM WIREWAY CONNECTING SIDE WIREWAYS.
** CONSULT FACTORY DOCUMENTS FOR LOADING WITH EMERGENCY AND NORMAL CIRCUITS.

GREENMAX
RLV PANEL SYSTEM
INTERCONNECTIONS ONE–LINE



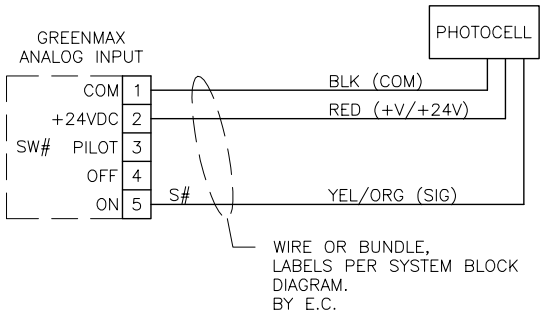
GREENMAX ANALOG INPUT TERMINATIONS

OCCUPANCY SENSOR* TERMINATED TO GREENMAX INPUT



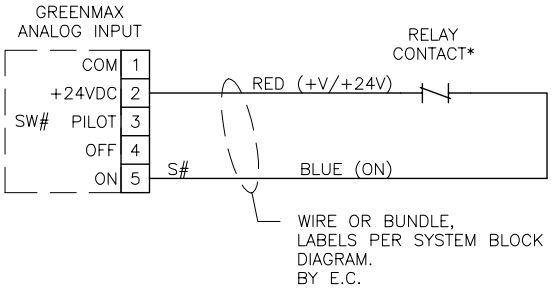
* MORE THAN ONE SENSOR TO A SINGLE INPUT AND HIGHBAY SENSORS REQUIRE EXTERNAL POWER.

PHOTOCELL SENSOR* TERMINATED TO GREENMAX INPUT



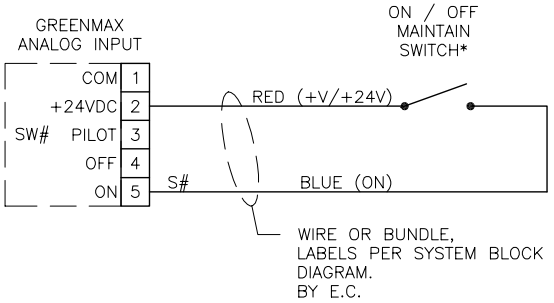
* LIMIT ONE PHOTOCELL SENSOR PER INPUT.

DRY CONTACT CLOSURE* TERMINATED TO GREENMAX INPUT



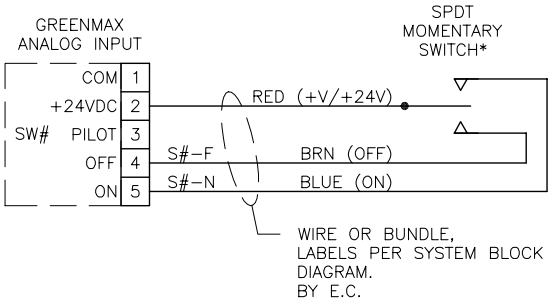
* CLOSURE MAY BE NORMALLY–OPEN OR NORMALLY CLOSED AND TERMINATED TO "ON" OR "OFF". CABINET PROGRAMMING REQUIRED.

MAINTAIN SWITCH TERMINATED TO GREENMAX INPUT



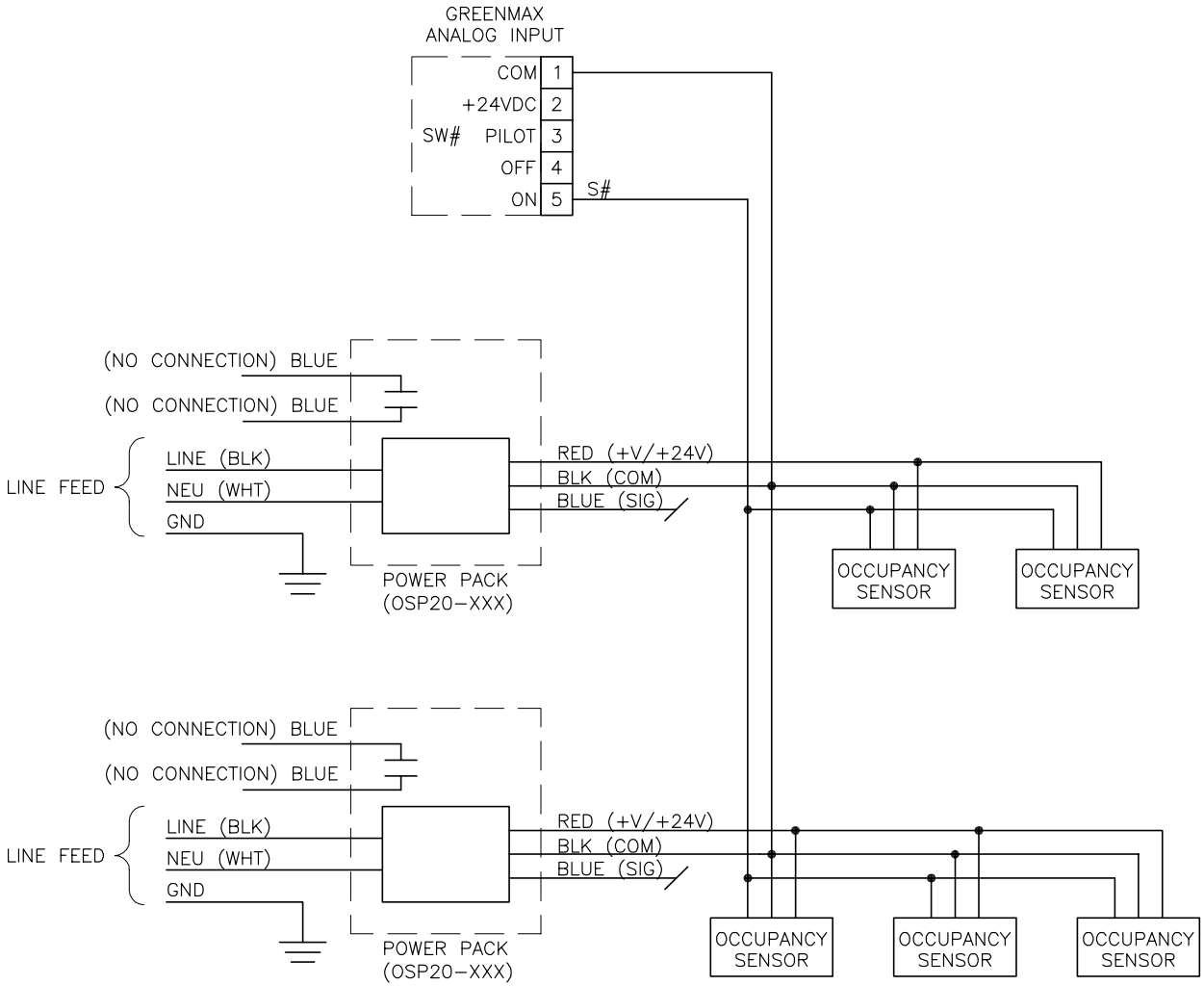
* 3– AND 4–WAY SWITCH OPERATION REQUIRES SWITCH POLE AND LOW VOLTAGE CONDUCTOR CONFIGURATION SIMILAR TO STANDARD LINE VOLTAGE 3– AND 4–WAY SWITCHES.

MOMENTARY SWITCH(ES) TERMINATED TO GREENMAX INPUT

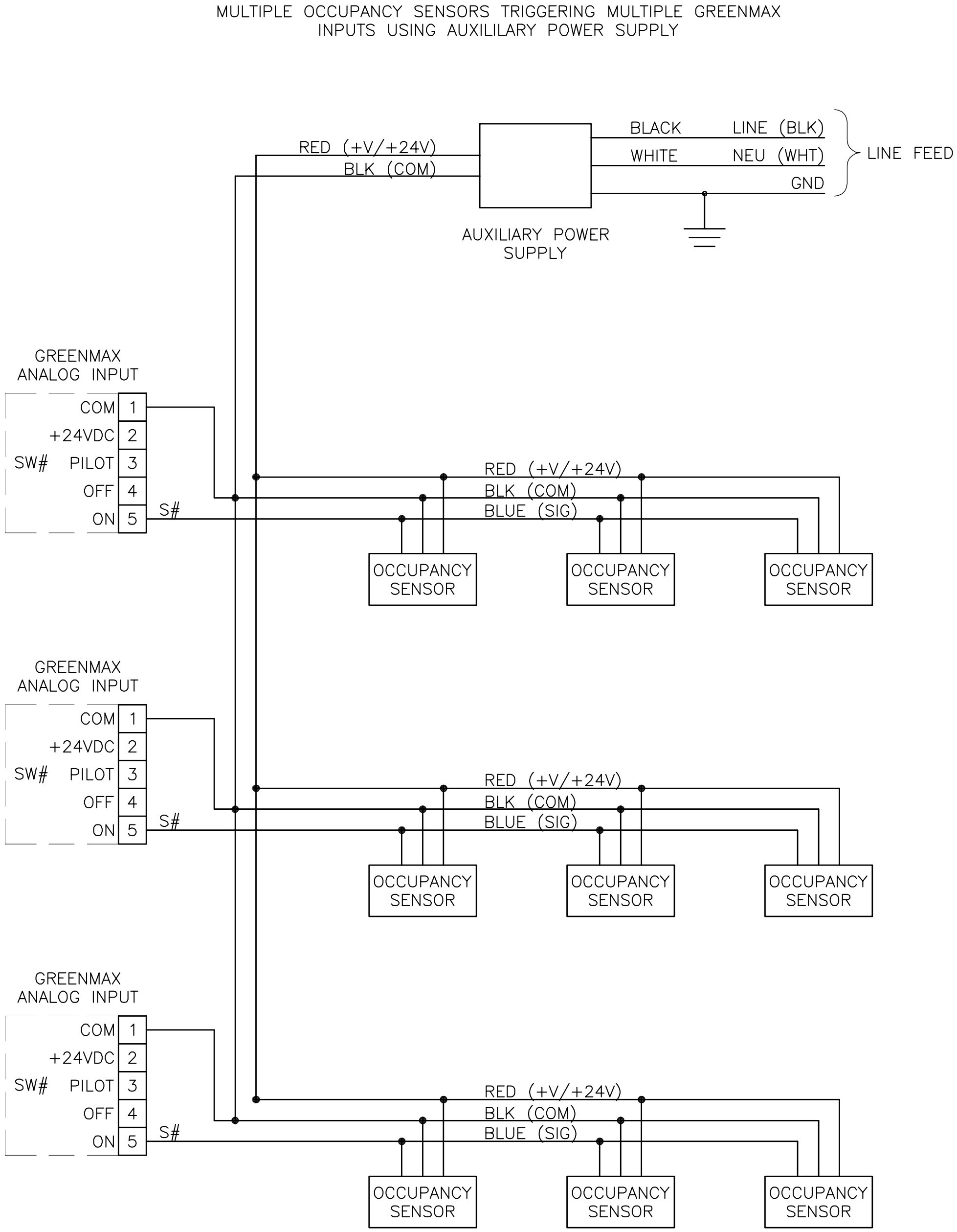


* WIRE ADDITIONAL SWITCHES IN PARALLEL FOR 3– AND 4–WAY OPERATION

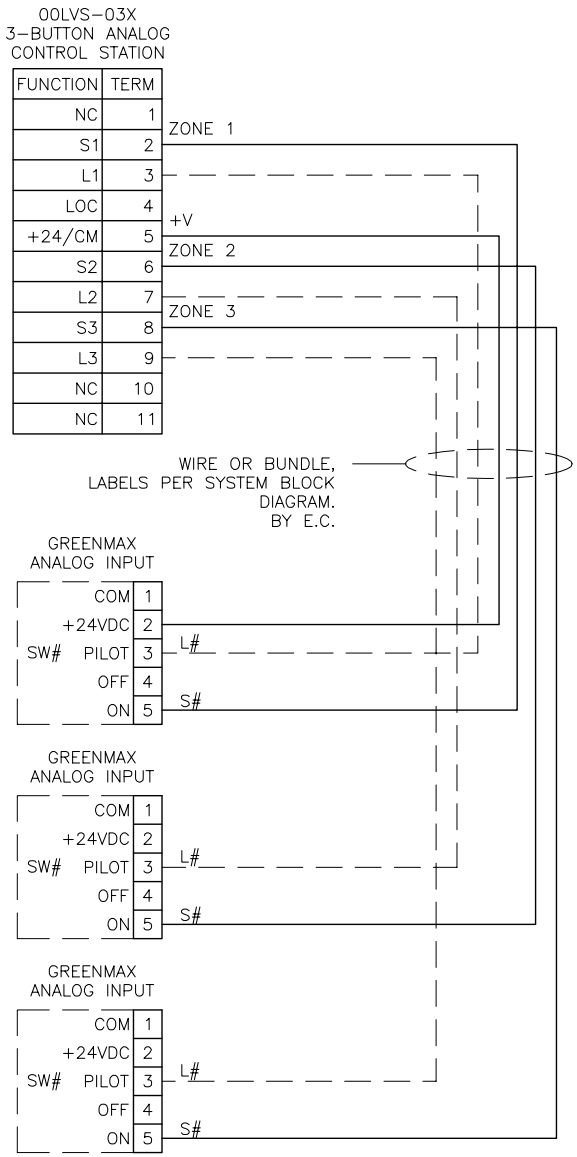
GREENMAX OCCUPANCY SENSOR TERMINATION - WITH POWER PACKS



GREENMAX OCCUPANCY SENSOR TERMINATION - WITH POWER SUPPLY

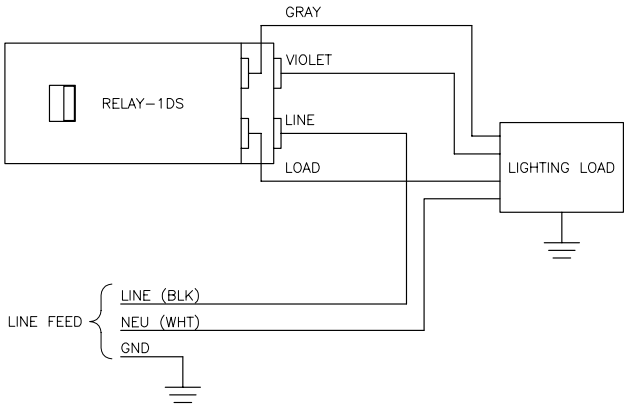


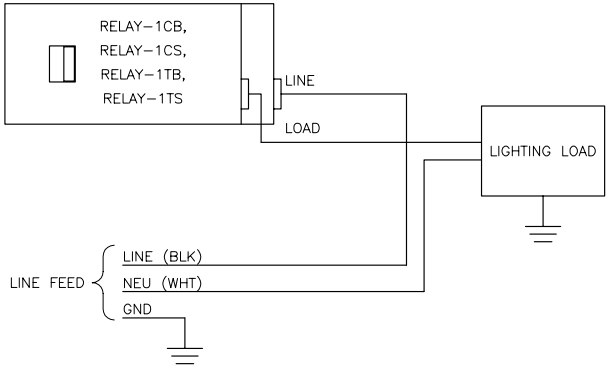
GREENMAX ANALOG CONTROL STATION TERMINATION

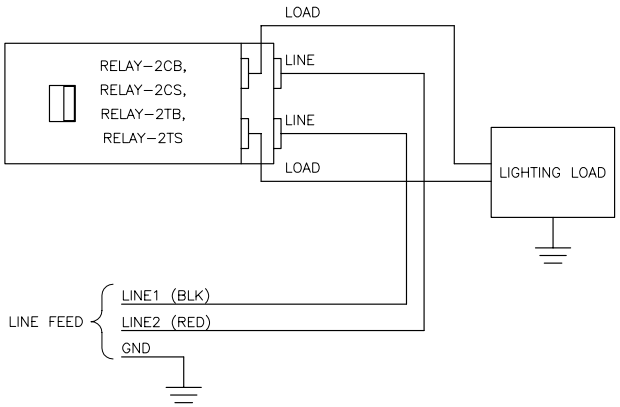


*TERMINATIONS ARE SIMILAR FOR OTHER LOW VOLTAGE ANALOG CONTROL STATIONS.

GREENMAX RELAY TERMINATIONS







CONSOLIDATED GREENMAX RELAY RATINGS BY MODEL:

SINGLE POLE RELAYS

Relay — 1CB, — 1CS, — 1TB, — 1TS
24-277VAC, 20A Tungsten halogen incandescent; 24-277VAC, 30A ballast, 347VAC, 20A ballast, 120VAC 1/2 HP motor; 277VAC 1 HP motor; 240VAC 1 HP motor

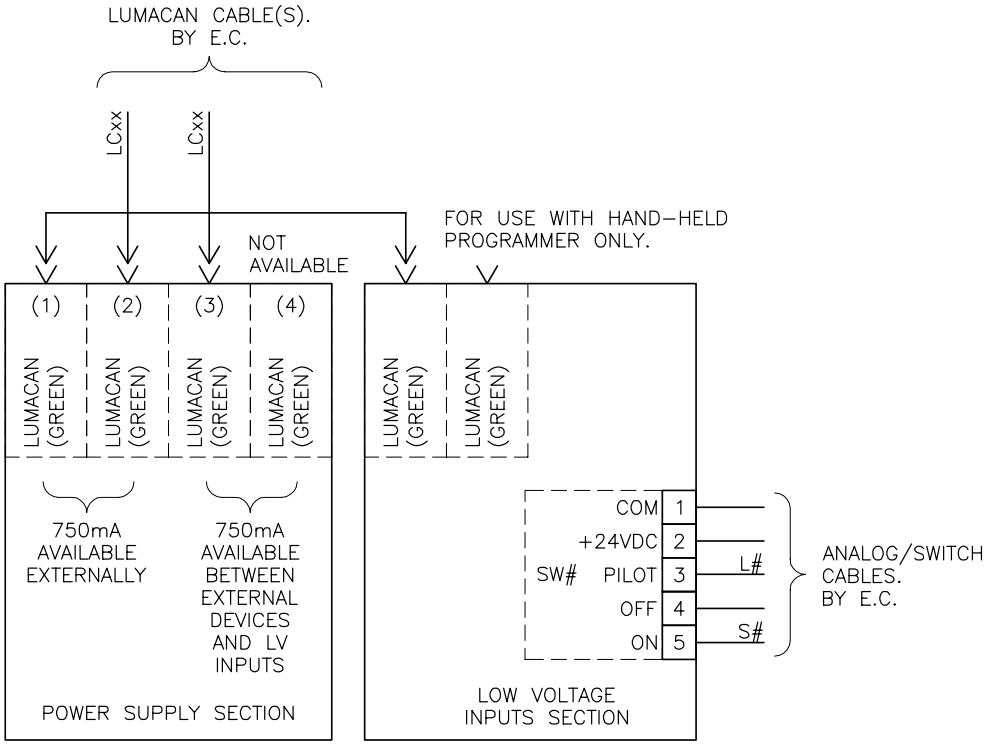
Relay — 1DS
24-277VAC, 30A 0-10V dimming fluorescent

DOUBLE POLE RELAYS

Relay — 2CB, — 2CS, — 2TB, — 2TS
208/240VAC, 20A tungsten halogen incandescent; 208/240/480VAC, 30A ballast, 600VAC, 20A ballast, 208/240VAC, 1HP motor

For complete details, refer to product data sheet.

GREENMAX RLV COMMON INTERNAL CONNECTIONS



NOTES:

1. Inputs available in each cabinet
2. Input types:
    - 2.1 Occupancy Sensors
    - 2.2 Photocells
    - 2.3 Dry contact closures
    - 2.4 Low voltage switches
3. Do not connect +V to any other source
4. Terminate analog inputs per input connection table or schedule
5. This model is available with 8 or 16 analog inputs
6. Refer to installation guide for additional details

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