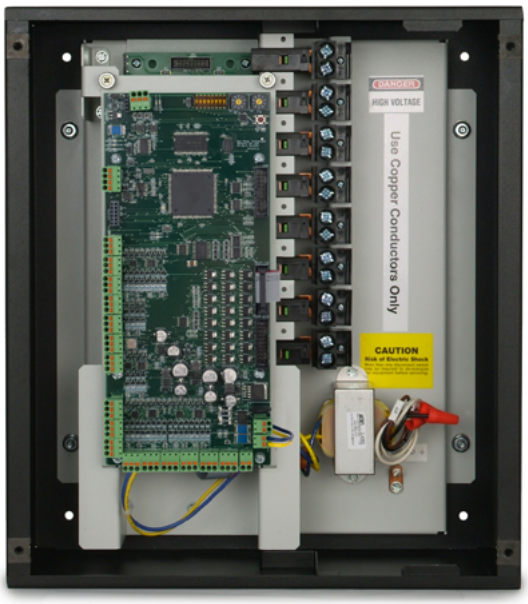
Relay Panel 08

Project | Part Number | Ref.



Overview
Relay Panel (RP) is a UL Listed lighting control panel. RP may be scheduled from any BACnet BAS and is compatible with all low voltage switches, occupancy sensors, and light level sensors. RP mounts near the circuit breaker panel to provide centralized control of branch lighting circuits. Relay Panel 08 (RP08) features up to 8 Lighting Tough Relays (LTR) and a removable door.

Features
UL Listed
Switching and Dimming (DLH / Presets) models available
BACnet MS/TP communication to BAS network
Sub network for Satellite and Capacitive Touch Stations (CTS)
Line and low voltage compartment separation
Upgradable Controller Board firmware
Available 347VAC Transformer

General Specifications
Construction: 16ga steel with black powder coat finish
Dimensions:
- Enclosure: 14.75”(375mm)H x 13.00”(330mm)W x 5.75”(146mm)D
- Door Surface Mount: 14.94”(379mm)H x 13.16”(334mm)W

Weight: 20.5lbs(9.3 kg)
Mounting: Surface mounted
Operating Environment: 32-125°F (0-50°C), 20-95%RH, non-condensing, Type 1 (dry / indoor environment)

Certifications
UL Listed, UL916 Standard for Energy Management Equipment, US/Canada
FCC Part 15
CEC Title 24
Electronics meet or exceed IEC Level 3

Warranty
Two (2) year limited manufacturer warranty from date of shipment (extended warranty optional).

Firmware Specifications (Controller Board)
Platform: Aperio Open Control Platform
Time Clock: Real-time clock with BACnet time sync
Schedule: BACnet Schedule, Monday – Sunday, Holidays, and Exceptions
Non-Volatile Memory: 16MB total, 2MB for trend data (15min trend requires 2K per day)
RAM: 2MB total, data stored in non-volatile memory upon power loss
Configuration: Tech Kit 2.0(see data sheet for details)
Configuration Connection: Micro-B USB or Bluetooth Wireless

Low Voltage Specifications (Controller Board)
Power In: 24VAC +/-10%, 30VA, 50-60 Hz
Auxiliary Out: 24VAC, 800mA (devices with full wave rectified power supply only)
Universal Input (UI) and Satellite / Station Network Power Out: 24VDC, 200mA total
Universal Input: 24 two-wire inputs
Universal Input Software Configuration:
- Digital Input (DI)
- Analog Input (AI): 0-5VDC, 0-10VDC, or 4-20mA

Universal Input Wire Requirement / Maximum Length: 18AWG (Solid or Stranded) / 500’(152m)

BAS Network Specifications
Protocol: BACnet MS/TP
Baud Rate: DIP switch selectable 9.6K, 19.2K, 38.4K, 76.8K, or 115.2K
Device Profile: BACnet Advance Application Controller (AAC)
Address Range: 1 – 99 selectable with rotary dials
Unit Load: 1/8 unit load
Topology: RS-485, half duplex, daisy chain wiring
Wire Requirement / Maximum Length: CL3P, 22AWG, 2 conductor, shielded, low cap / 4000’(1216m)
Points: See *PIC Statement*

Satellite / Station Network Specifications
Compatible with CTS and Satellite devices. See data sheet for details.

Transformer Specifications
Type: 30VA Inherently Limited
Primary: Dual Tap 120 or 277VAC +/-10%, 30VA, 50-60 Hz
Secondary: 24VAC +/-10% Inherently Limited
Wire Requirement: 18AWG Minimum (Solid or Stranded)

LTR Specifications
Type:
- UL Listed
- SPST latching with manual override lever
- Electrically operated mechanically held, pulse driven
- Short Circuit Current Rating (SCCR) 30,000A @ 277 VAC

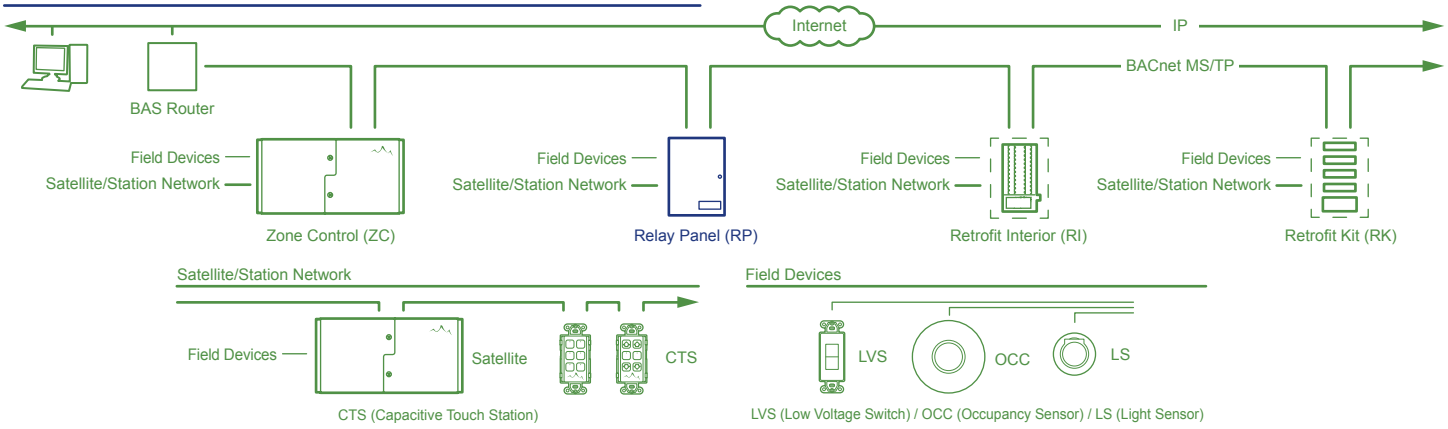
Maximum Ratings: Tungsten 20A @ 347VAC / Ballast 30A @ 347VAC / Resistive 20A @ 347VAC / 1.5HP @ 120VAC
Load Terminal: Universal screw terminal, box type clamp
Terminal Capacity (per side): (2) 14-10AWG or (1) 8AWG (Solid or Stranded copper wire)

Optional Equipment Specifications
347 Transformer Specifications
- Type: 50VA Inherently Limited UL Listed
- Primary: Single Tap 347VAC, 50VA, 60 Hz
- Secondary: 24VAC +/-10% Inherently Limited
- Wire Requirement: 18AWG Minimum (Solid or Stranded)

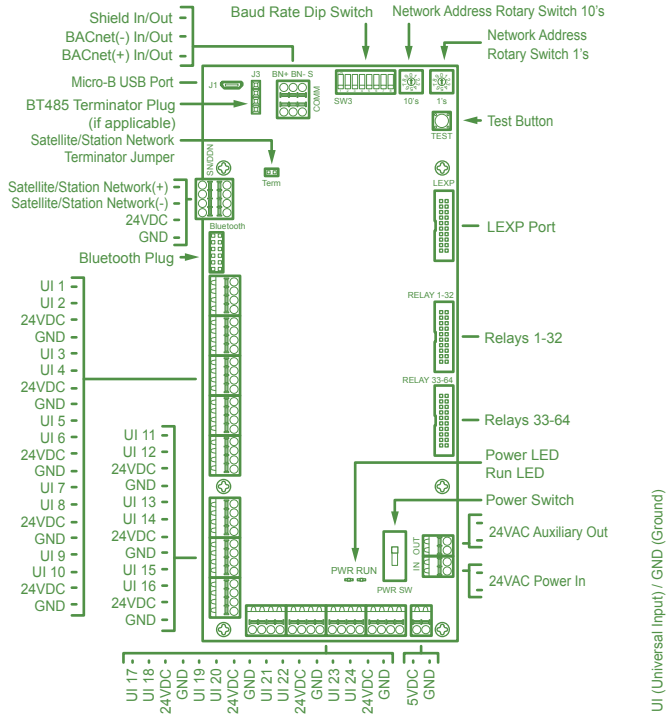
Relay Panel 08

 © 2014 Blue Ridge Technologies International, LLC All Rights Reserved.

General Architecture



Controller Board Terminations



Ordering Information

RP XX 08 - XX - X

Controller Board Options

XX = SS Switching Standard: Supports Satellite / CTS for Switching Applications

DS Dimming Standard: Supports Satellite / CTS for Dimming (DLH) Applications

Quantity of Relays Installed

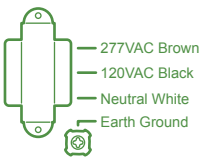
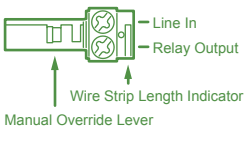
XX = 01 thru 08 Up to 8 Relays Installed

Power Options

X = 0 120 / 277VAC Transformer

1 347VAC Transformer

Transformer Terminations



LTR Terminations