

Project

Part Number

Ref.

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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

BTL Listed, UL Listed
Dimming (DLH / Presets)
BACnet MS/TP communication to BAS network
CANbus 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 6.25"(159mm)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

BTL Listed, UL Listed, UL916/UL924 , US/Canada
Seismic Rating 2012 ICC-ES AC156, Importance Factor 1.5

Warranty

Five (5) year limited manufacturer warranty from date of shipment
(extended warranty optional).

Firmware Specifications (Controller Board)

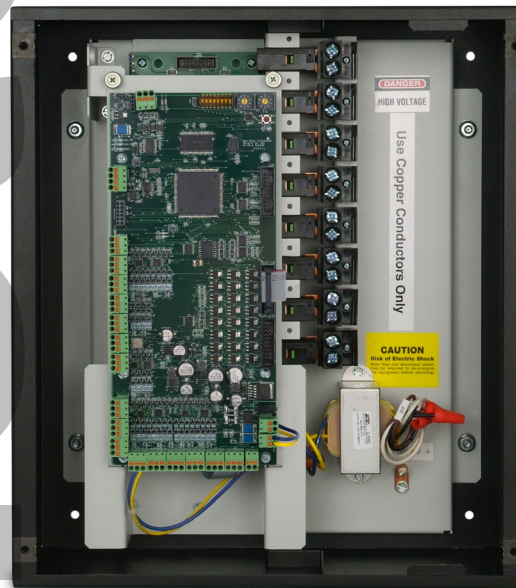
Platform: Aperio Open Control Platform
Time Clock: Real-time clock with BACnet time sync
Schedule: BACnet Schedule, Monday – Sunday, Holidays, and
Exceptions Non-Volatile Memory: 16MB total, 2MB for trend data (15min
trend requires 2K per day)
RAM: 2MB total, data stored in non-volatile memory upon power 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 CANbus 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 Application Specific Controller (B-ASC)
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



CANbus Specifications

Compatible with CTS and Satellite devices. See data sheet for details.

Transformer Specifications

Type: 40VA Inherently Limited UL Listed
Primary: Multi Tap 120, 208, 240, or 277VAC +/-10%, 40VA, 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) 40,000A @ 277 VAC
Maximum Ratings: Tungsten 20A @ 347VAC / Magnetic Ballast 30A @
347VAC / Electronic Ballast 16A @ 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

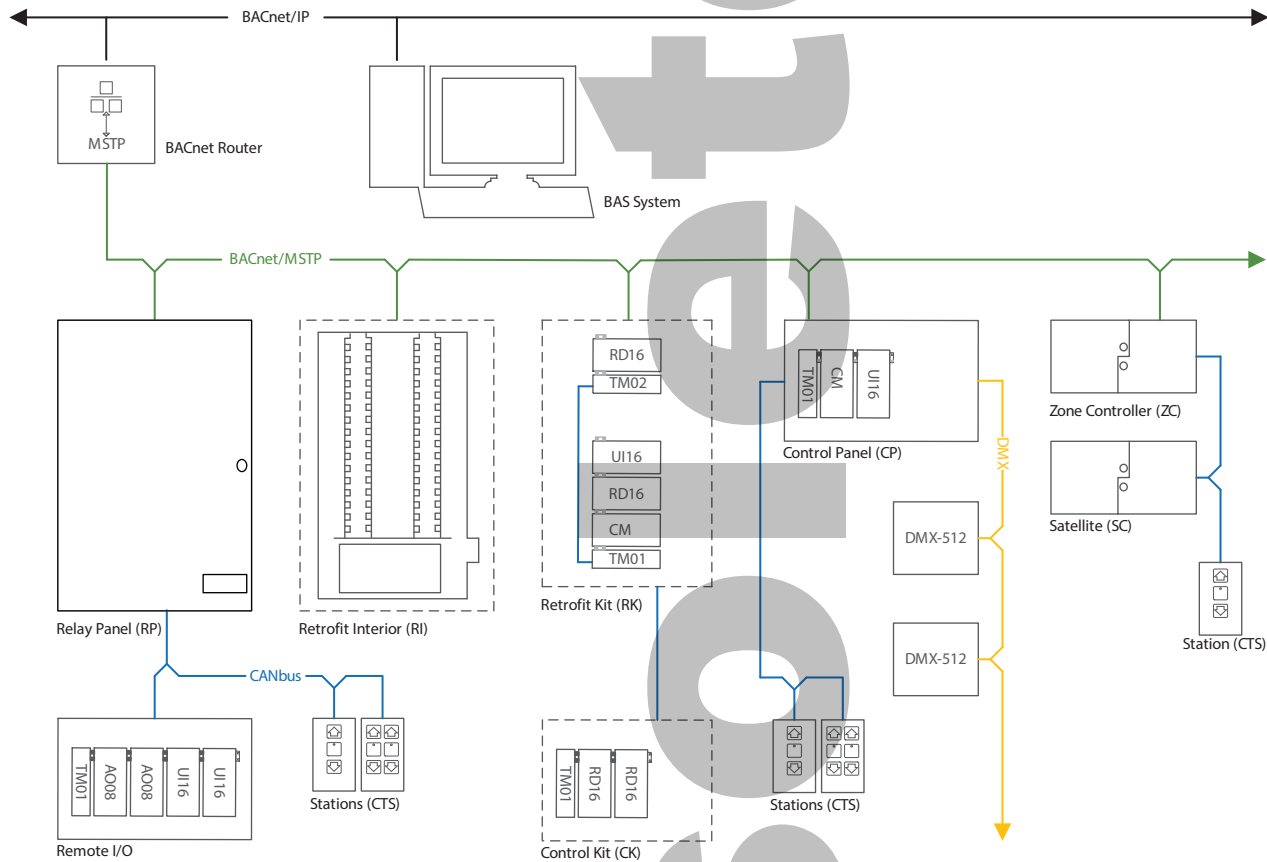
347 Transformer Specifications
Type: 50VA Inherently Limited UL Listed
Primary: Single Tap 347VAC, 50VA, 60 Hz
Secondary: 24VAC +/-10% Inherently Limited
Wire Requirement: 18AWG Minimum (Solid or Stranded)

Relay Panel 08

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System Architecture



Ordering Information

RPDY08 - XX - X - XX

Controller Options

- Y = S Dimming Standard
- Y = L Dimming Standard with Load Status
- Y = X Dimming Standard with Load Status and UL924 on all relays

Quantity of Relays Installed

- XX = 04 4 Relays Installed
- XX = 08 8 Relays Installed

Power Options

- X = 0 120 / 277VAC Transformer
- 1 347VAC Transformer

Special Options

- XX = 00 None
- X0 UL924 Emergency Bypass (Relays 1-8)