

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 as well as occupancy 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
- BACnet MS/TP and N2 communication to BAS network
- Sub network for Capacitive Touch Stations (CTS-DDN)
- Line and low voltage compartment separation
- Upgradable controller 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, NEMA 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).

Controller Specifications

Power In: 24VAC +/-10%, 30VA, 50-60 Hz
 Auxiliary Out: 24VAC Full Wave Rectified
 Digital Input: 24 two-wire inputs
 Software Configuration: Maintained, state change, momentary on/off, momentary on, or momentary off
 Jumper Configuration: 8 input segments, dry contact (N) or 24VDC externally powered (R)
 Wire Requirement / Maximum Length: 18AWG (Solid or Stranded) / Dry Contact 500'(152m) or externally powered 1,000'(304m)
 Analog Input: 6 three-wire 0-5VDC inputs
 Wire Requirement / Maximum Length: 18AWG (Solid or Stranded) / 250'(76m)

BAS Network Specifications

BACnet MS/TP
 Baud Rate: DIP switch selectable 9.6K, 19.2K, 38.4K, or 76.8K
 Device Profile: BACnet Advance Application Controller (AAC)
 Address Range: 1 – 99 selectable with rotary dials
 Unit Load: Full unit load, 32 devices per MS/TP segment
 N2
 Baud Rate: DIP switch selectable 9.6K
 Address Range: 1 – 255 selectable with rotary dials and DIP switch
 BACnet MS/TP and N2
 Topology: RS-485, 3 conductor (+, -, and shield), daisy chain wiring (no stars or t-taps)
 Wire Requirement / Maximum Length: Belden 8760 / 4000'(1216m)
 Points: See RP Application Guide and PIC Statement

DDN Network Specifications

Compatible with CTS-DDN and DDN 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
 Ratings: Tungsten 20A @ 120VAC / Ballast 20A @ 277VAC / Ballast 20A @ 347VAC / Resistive 20A @ 277VAC / Resistive 20A @ 347VAC
 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

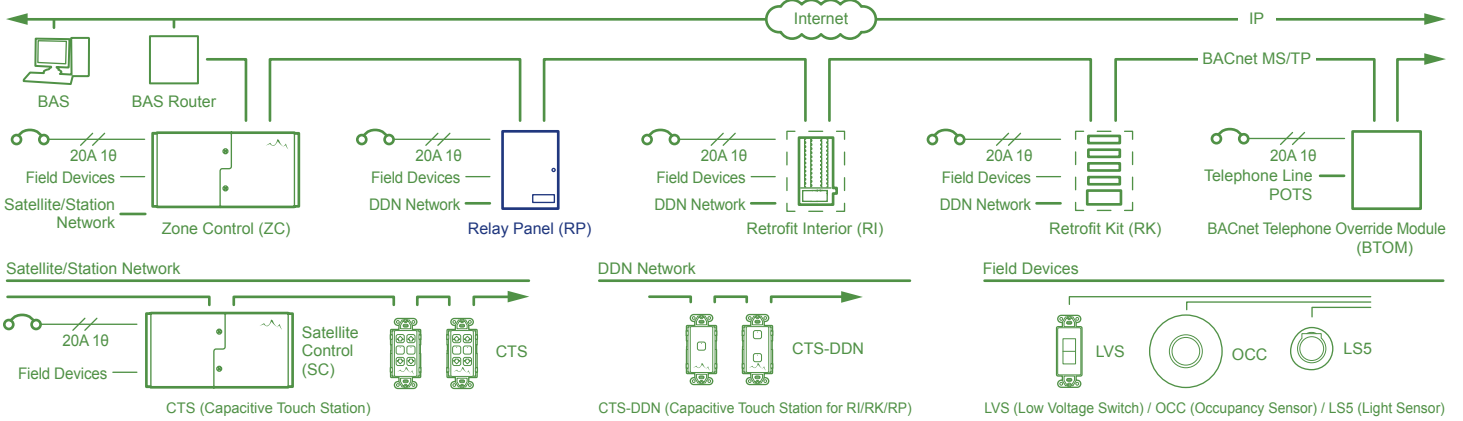
347 Transformer Specifications
 Type: 50VA Inherently Limited UL Listed
 Primary: Single Tap 347VAC, 50VA, 60 Hz
 Secondary: 24VAC +/-10% Inherently Limited
 Wire Requirement: 18AWG Minimum (Solid or Stranded)

Relay Panel 08

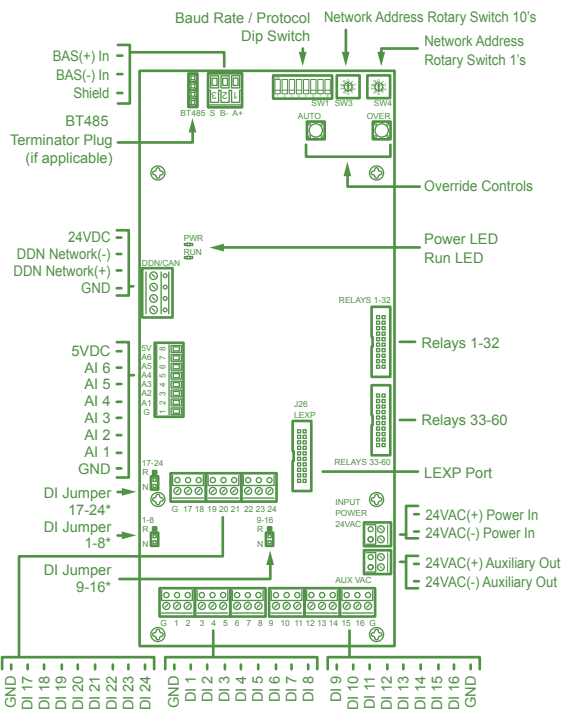
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Data Sheet : Catalog Page 5

General Architecture



Controller Terminations



AI (Analog Input) / DI (Digital Input) / GND (Ground)
 *DI Jumper Position N (Dry Contact) / R (Externally Powered)

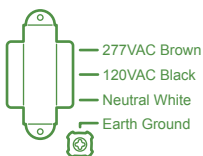
Ordering Information

BR08P - XX - XX

Actual Quantity of Relays Installed
 XX = 01 thru 08 Up to 8 Relays Installed

Special Options
 XX = 00 None
 XX = 0C 347VAC Transformer

Transformer Terminations



LTR Terminations

