

Overview

Retrofit Kit (RK) replaces existing relay panel electronics. RK installation retains the original relays, line voltage wire, conduit, and enclosure reducing labor as well as material cost. Retrofit Kit 1 (RK1) is a direct replacement for LMB controllers in relay panels which utilize LTR style relays. The kit includes a Controller, two 16-20pin ribbon cables, and 6 threaded standoffs.

Features

Compatible with :

- Lumisys L3500 Panels (LTR)
- Triatek LP3500 Panels (LTR)

Retains relays, line voltage wire, conduit, and enclosure
Control up to 60 relays
BACnet MS/TP and N2 communication to BAS network
Sub network for Capacitive Touch Stations (CTS-DDN)
Install in less than 4 hours

General Specifications

Dimensions:

Controller: 9.70"(246mm)H x 4.25"(108mm)W x 1.375"(35mm)D
Threaded Stand-offs: 5/16"(8mm) to provide clearance for Controller
16-20pin Ribbon Cable: 12"(304mm)L

Weight: 10oz(283g)

Mounting: Mounts in position of original LMB controller
Operating Environment: 32-125°F (0-50°C), 20-95%RH, non-condensing

Certifications

Electronics meet or exceed IEC Level 3
Maintains UL Listing on TRIATEK LP3500 and Lumisys L3500

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 RK Application Guide and PIC Statement

DDN Network Specifications

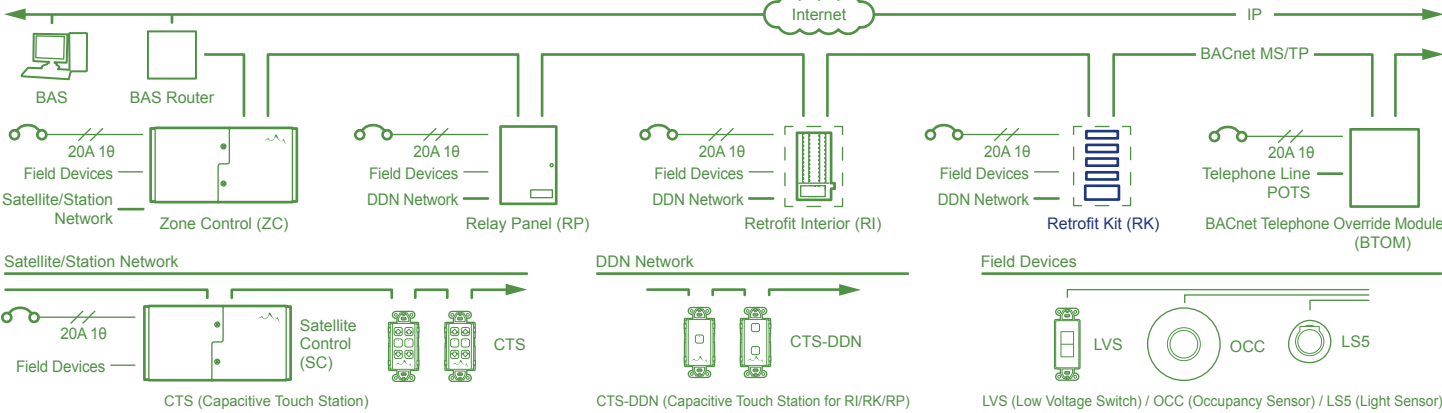
Compatible with CTS-DDN and DDN devices. See data sheet for details.

Retrofit Kit 1

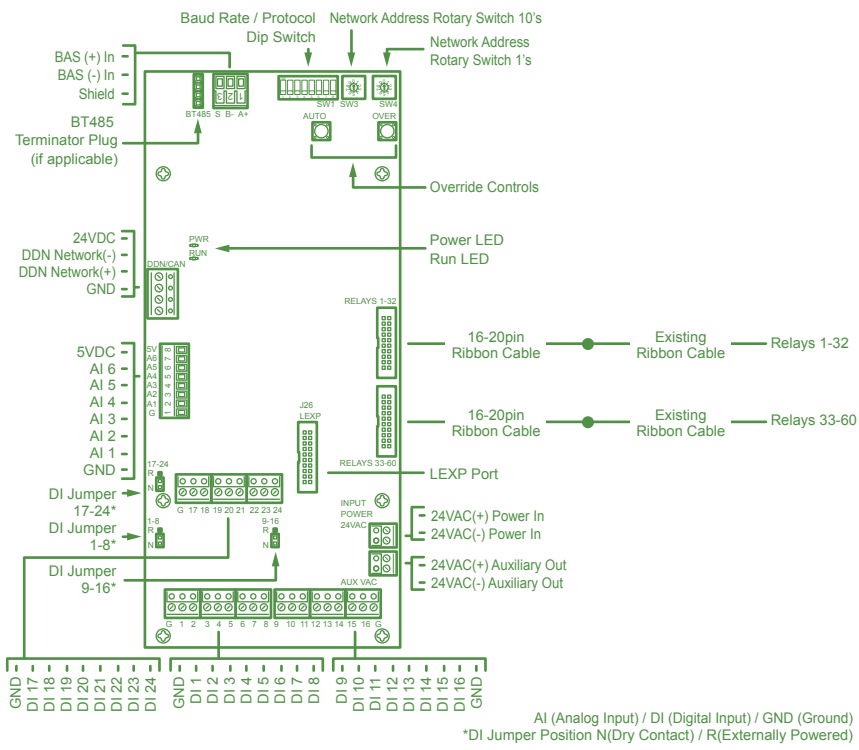
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Data Sheet : Catalog Page 25

General Architecture



Controller Terminations



Ordering Information

Part Number	Description
BRRK1	BACnet Upgrade Controller, LMB Based Products Only, Includes Controller, two 16 to 20 pin ribbon cables, and (6) standoffs.