AL1002ULADAJ
NAC Power Extenders

Rev. AL1002U

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 06/19/17

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Overview

The AL1002ULADAJ are extremely cost effective voltage regulated remote NAC Power Extenders. They may be connected to any 24 volt Fire Alarm Control Panel (FACP). Primary applications include Notification Appliance Circuit (NAC) expansion (supports ADA requirements) and will provide auxiliary power to support system accessories.

Specifications

Input:
- Power input 120VAC 60 Hz, 5 amp.
- Two (2) Class A, Style Z or two (2) Class B, Style W, Y FACP inputs.
- Two (2) NC dry contact trigger inputs.

Output:
- Class 2 Rated power-limited outputs.
- 24VDC @10 amp max total alarm current.
- 2.5 amp max current per output.
- Separate 1.0 amp auxiliary output.
- Programmable supervised indicating circuit outputs: Four (4) Class B, Style W, Y or Two (2) Class A, Style Z or One (1) Class A, Style Z and Two (2) Class B, Style W, Y.
- Thermal and short circuit protection with auto reset.

Battery Backup:
- Built-in charger for sealed lead acid or gel type batteries.
- Automatic switchover to stand-by battery when AC Fails.
- Zero voltage drop when switching over to battery backup.

Supervision:
- AC fail supervision (form "C" contact, 1 amp / 28VDC). Factory set for 30 seconds with optional 2.5 to 3 hour delay setting (field selectable).
- Instant local AC trouble reporting relay (form "C" contact, 1 amp / 28VDC).
- Battery presence and low battery supervision (form "C" contact, 1 amp / 28VDC).

Visual Indicators:
- Input and output status LED indicators.

Special Features:
- 2-wire horn/strobe Sync mode allows audible notification appliances (horns) to be silenced while visual notification appliances (strobes) continue to operate.
- Sync protocols include Potter/Amseco, Faraday, Gentex®, System Sensor®, and CooperWheelock®.
- Temporal Code 3, Steady Mode, Input to Output Follower Mode (maintains synchronization of notification appliances circuit).
- Compatible with 12VDC or 24VDC fire panels.
- Output loop supervision steered to input 1 or input 2.
- Signal circuit trouble memory (helps identify intermittent loop problems).
- Common trouble input and output.
- Ground fault detection.
- Unit includes power supply, red enclosure, cam lock, and battery leads.

Mechanical:
- Enclosure Dimensions (H x W x D approx.): 18" x 14.5" x 4.625" (457.2mm x 368.3mm x 117.48mm)
- Product weight (approx.): 16.65 lbs. (7.55 kg).
- Shipping weight (approx.): 18.9 lbs. (8.57 kg).

Agency Approvals

UL Listed Control Units and Accessories for Fire Alarm Systems (UL 864) Ninth Edition

California State Fire Marshal Approved.

MEA Approved — NYC Department of Buildings Approved.

FM APPROVED — Factory Mutual Approved.

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