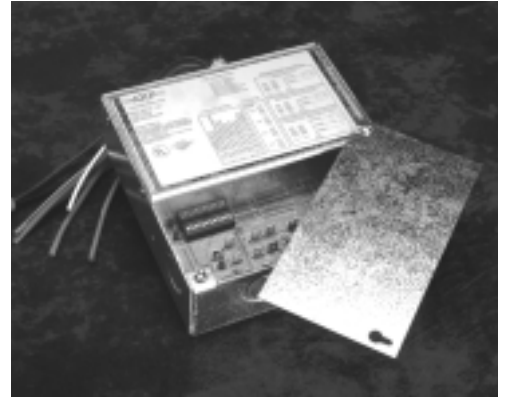




ARP-Net Automatic Relay Pack

- ◆ Distributed intelligent control
- ◆ Two relay outputs rated 20A
- ◆ Low voltage switch input wiring
- ◆ Automatic shut off blink warning
- ◆ Intelligent power pack for occupancy sensors
- ◆ Communicates with other panels and devices
- ◆ Free topology network wiring
- ◆ LonWorks® based communication
- ◆ UL and CUL listed; Three year warranty



System Information

The ARP-Net automatic relay pack is a modular device that provides distributed intelligent control of lighting and electrical loads. Since the ARP is installed right where control is needed, it reduces the costs and complexity of design and installation. Through network communication wiring, the ARP shares information with other ARPs and other networked devices to create a seamless lighting control solution.

Operation

The ARP contains two relay outputs rated for 20 Amps at 120 or 277 VAC. Through low voltage wiring, each relay output can be independently controlled by any type of switch, contact closure or DC voltage. This allows the ARP to connect to occupancy sensors, time switches, manual switches, or almost any other signal used to control lighting, HVAC, or electrical loads. The ARP's feature switch inputs can be used for added control such as master switching, daylighting and step sequence operation. Switches from any ARP or other networked devices can be linked to control a relay or group of relays anywhere in the entire lighting control system.

Features

The ARP is packed with innovative features that provide maximum flexibility. In addition to the two standard switch inputs and three feature switch inputs, the ARP has an automatic shut off input. A time clock closure on this input notifies occupants of an impending shut off by blinking the lights five minutes prior to shut off. A simple switch toggle will cancel the shut off and re-initialize the override time period. Unlike systems which sweep lighting off based on a predetermined schedule, the ARP gives a true override time period from the time a switch is toggled. Providing 200 mA of 24 VDC, the ARP can serve as an intelligent power pack for powering devices such as occupancy sensors, pilot lights, photocells, etc.. Each 20 Amp relay output also has an isolated relay and pilot light output that follows the relay output's on/off state.

Networking

The ARP uses LonWorks® networking protocol to reliably share information with other ARPs and ACP-Net control panels over a twisted pair of wires. This enables you to use the SP-1 system programmer or a PC with The Watt Stopper's LCS software for local or remote dial-in control. Networking uses free topology wiring, giving ARP-Nets and ACP-Nets the benefit of connecting at any point in the system. This adds flexibility to the lighting control system during installation and avoids the need to carefully daisy chain wiring between devices.

Applications

The ARP distributes intelligent control by connecting to a junction box close to the electrical load it controls. This reduces the cost of branch circuit wiring and low voltage switch wiring required when a centralized lighting control panel is used for controlling smaller spaces. Another ARP advantage is the exceptional flexibility for expansion in the future. For instance, when a building's floorplan changes, additional control can easily be added by simply installing another ARP at the point of control without running new wiring all the way back to a central location.

ARP-Net Technical Information

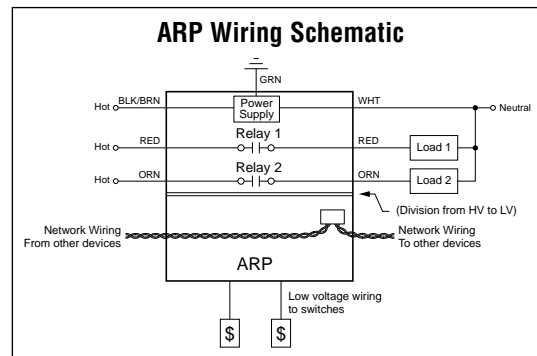
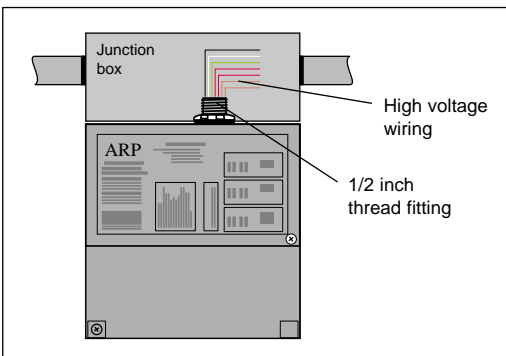
Specifications

- ◆ Accepts any type of switch contact closure input (momentary on/off, maintained or push button) and accepts 3 - 24 VDC voltage input signals
- ◆ Switch wiring distances up to 5000 feet with #18 or 20 gauge wire
- ◆ Network wiring distances up to 1500 feet for free topology, 8000 feet for linear topology
- ◆ Network wiring is non-polarity sensitive to reduce wiring mistakes
- ◆ Communication is peer-to-peer between ARP-Nets and other networked devices
- ◆ Pilot light voltage output at 24 VDC for each relay
- ◆ On/off status light for each relay
- ◆ Two power relay outputs rated 20 Amp tungsten and ballast, 1 hp for motor loads
- ◆ Two isolated relays with N/O and N/C outputs: rated 1 Amp at 24 VDC
- ◆ Auxiliary power: 200 mA at 24 VDC
- ◆ After-hour control with blink warning prior to shut off
- ◆ Selectable, true override time period: 30 min., 1 hr., 2 hr., 4 hr.
- ◆ Allows different switch input personality types (daylighting, after-hour, lock-on, lock-off, etc.)
- ◆ Fail-safe power-up feature restores ARP to previous on/off state
- ◆ NEMA type 1 enclosure, surface mount
- ◆ Size: 6.63”h x 6.13”w x 2.13”d (168.4mm x 155.7mm x 54.1mm)
- ◆ Dual voltage input power of 120 or 277 VAC, 60 Hz
- ◆ FCC Compliant Part 15, sub-part J for commercial and residential
- ◆ UL and CUL listed; 3 year warranty

Ordering Information

Catalog No.	Input Power	Ballast (A)	Incan (A)	Motor (hp)	Output
ARP-Net-120/277	120 VAC; 60 Hz or	20	20	1	24 VDC; 200 mA
	277 VAC; 60 Hz	20	-	1	24 VDC; 200 mA

Installation & Wiring



Application Layout

