

www.ilc-usa.com 952.829.1900

Apprentice3

Programmable Lighting Control

Overview

The Apprentice3 programmable lighting control panel is an energy saving lighting controller. You can network up to 48 control points and 64 LightSync™ devices per network and connect via easy to use RJ-45 ports. Connect and program panels using a USB port on a laptop and our free Apprentice3 software. Add-on cards are easy to install and and add the following capabilities: BACnet, N2, MODBUS, TCP/IP, or DMX control. Also optional remote mount 0-10V isolated dimming control modules for standard daylight harvesting operations.

Features

- Made in the USA
- Digital CAT-5 Ready
- Programming Options are done with an Integrated keypad with 4-line LCD display or using Apprentice3 Pro software via • Switching Inputs accepts virtually any type of switch input, USB or TCP/IP.
- LightSync Data Line Device Ready utilizing RJ45 connectors and standard CAT-5 cabling for data line.
- Network capability allows you to connect panels for up to 48 outputs and 64 LightSync devices per network.
- Internet Capability to program, monitor, and control panels across the network or internet with the addition of a TCP/IP module.
- Plug-load compatible 16 Amp lighting relay.
- Relay Groups consist of any relay on the network and can be assigned to any of the 48 available groups — controlled by any timer, switch, or other external commands.
- Relay Presets can be programmed from any relay ON/OFF patterns and be assigned to any of the 48 available presets controlled by any timer, switch, or other external commands.
- Timer Scheduling for 48 available timers that can turn relays ON or OFF for Time-of-Day, Astronomical times, and Open/Close.

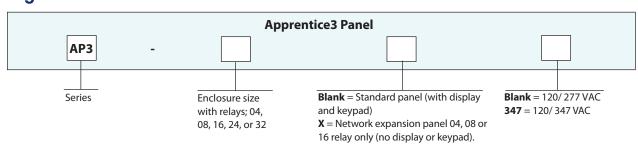


- Clock Functions include Automatic Astronomical calculation of Sunrise and Sunset and Adjustable Daylight Saving Time and Enable/Disable.
- momentary or maintained, 2- or 3-wire switch and directly powers data line switches and devices.
- 1 AP3IM 4-input module provided with each AP3 panel, additional AP3IM modules ordered separately and field installed.
- Add-On Modules can be added to each controller, including BACnet IP, BACnet MSTP, Modbus RTU, Modbus ASCII, N2, DMX512, and TCP/IP.
- AP3DM -P or -R modules for 0-10V dimming for up to 28 channels (best performance) or 48 total.
- Expansion panels with 4 to 16 relays are available to expand the number of relay outputs on a standard panel.
- LSG3 MZD and non-dim switch stations sported with power for 10 CAT-5 LS devices before a PSR is required.

Warranty

Five-year limited warranty

Ordering



Ordering Notes: - All AP3 panels shipped fully populated with AP3R-1 relays - Expansion panels can only have 4, 8, or 16 relays per X panel. -Maximum of 4 (AP3R-2) 2-pole relay per panel, ordered separately and field installed.

Note: 1 AP3IM module included, additional AP3IM or AP3DM-P can be ordered separately, 4 size will accept only 1, 8 will accept 2 total, AP3-xx 16 will accept 4, 24 will accept 6, and 32 will accept 8 total. 3-1-2024 Rev.G



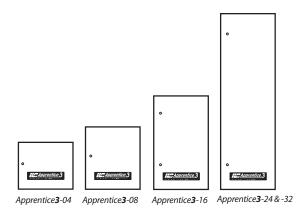


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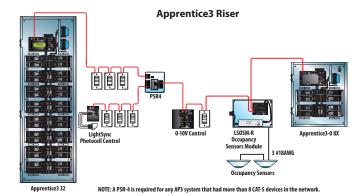
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Physical



Enclosure Size Options (NEMA Type 1 w/cover)				
Enclosure Type	Relays	Width	Height	Depth
Apprentice 3 -04	4	14 in.	12 in.	4 in.
Apprentice 3 -08	8	14 in.	16 in.	4 in.
Apprentice 3 -16	16	14 in.	24 in.	4 in.
Apprentice 3 -24	24	16 in.	42 in.	4 in.
Apprentice 3 -32	32	16 in.	42 in.	4 in.



Specifications

Relays:

- 1 Pole relays (AP3R-1) with control for 16 Amp loads up to 347VAC, used for electronic ballasts, ballasts, resistive and general loads.
- 2 Pole relays (AP3R-2) with the same footprint as the single pole, control of 16 Amp loads up to 347VAC per pole used for electronic ballasts, ballasts, resistive and general loads, 208/240/480VAC 2-pole circuits.
- Plug-load compatible 16 Amp lighting relay

Safeguards:

- Power surge and spike suppression up to 123 volts on the 24VAC power input
- Memory retention for firmware and programming up to 50 years
- Real-Time-Clock time retention 45 days or greater without power

Physical:

- NEMA1 galvanized enclosure
- Double sided construction for wiring on both sides
- Provided with pre-drilled mounting holes
- Painted removable hinged locking door for flush or surface mounting
- High voltage barriers separate Normal/Emergency and Class 2 wiring

Electrical:

- 120/ 277 VAC or optional 120/ 347 VAC
- 1 Amp

Capacities:

- 4, 8, 16, 24 or 32 relays
- For best dimming performance limit the 0-10V Dimmer channels to 28 or 7 AP3DM-P and AP3DM-R modules combined

Operating Environment:

- · Location: Interior space
- Operating Temp.: 0° to 40° C
- · Humidity: 10% 90% Non-condensing
- Vibration: Stationary

Certifications and Approvals:

- UL CUL
- FCC Part 15
- FCC Part 68
- Title 24
- ASHRAE compliant

Non-Compatible Products:

- LSLVD
- LSG3-Scene and Scene/MZD stations
- LSTS2 touch screens
- LSCS and LSWS occupancy devices

AP3-xx 3-1-2024 Rev.G

