

48500-EZ SERIES

2-5 Door PLC Interlock Controller Field Configured with independent Two Zone capability




Standard with Power Supply & Enclosure

The 48500-EZ PLC controller can be paired with a 4-Amp UL 294 Class 2 power supply and NEMA enclosure providing power to operate maglocks, electric strikes and traffic lights. The controller is also available without the power supply & enclosure for connection to an existing 12-24VDC power source.

Models:

#48501-EZ PLC Controller (Powered)

Mounted in an enclosure with a  294 power supply. Controls 2 – 5 Doors in Any Combination Locked or Unlocked. 1 or 2 zones with Emergency Override, Door Alarm, Alarm Reset and Shunt per individual zone

#48500-EZ PLC Controller (Standalone)

Control Board only No Power supply or Enclosure. Controls 2 – 5 Doors in Any Combination Locked or Unlocked. 1 or 2 zones with Emergency Override, Door Alarm, Alarm reset and Shunt per individual zone

Control Dual Interlocks Up to 5 Doors

The 48500-EZ PLC is a cost-effective easy method for interlocking two to five doors or controlling two independent interlocks. It is a one board solution that gives the installer complete control of all operating and configuration options without any software. The system is configured onsite for door control, alarm response, security level, and interlock overrides using onboard switches and jumpers. Outputs for traffic lights and violation alarms are included.

Environmental and Security Applications

Suitable for air locks, clean rooms, sally ports, data centers, schools, jewelry stores, money rooms, security mantraps and any facility where interlocking doors are a critical part of access control. All door types are supported: locked or unlocked, manual or automatic including "soft interlocks" using red/green traffic lights for visual access control.

Access Control Compatible

Designed to work with access control systems, a contact closure at the request for access input indicates a valid request and is checked against interlock status before the door is allowed to open. Door status is fed back to the access control system via dedicated relay contacts.

Expandable With Multiple Zones

Controllers can be paired to operate up to 10 doors of one to four zones, with shared doors between zones.

High Security Applications

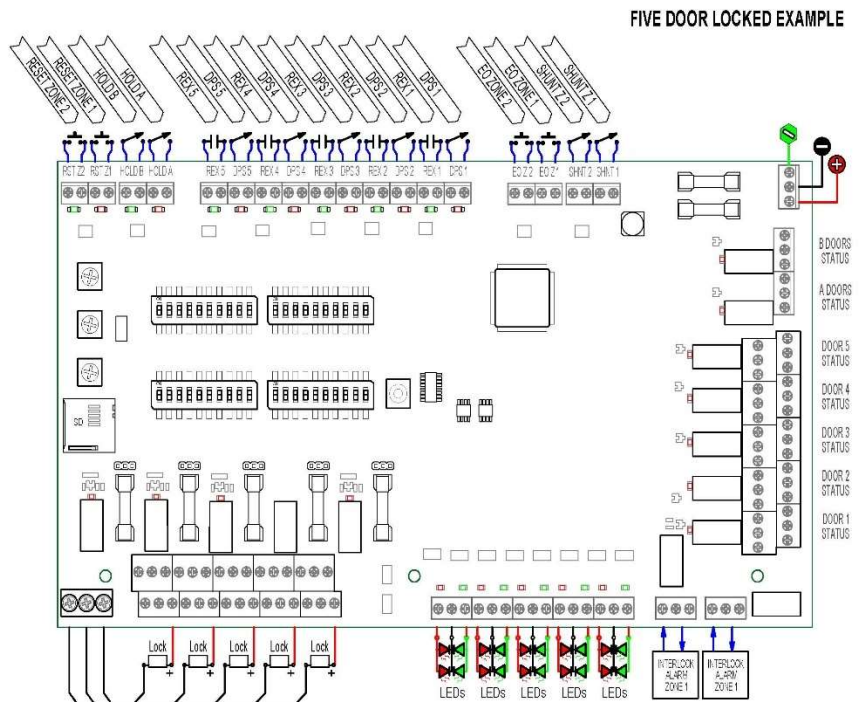
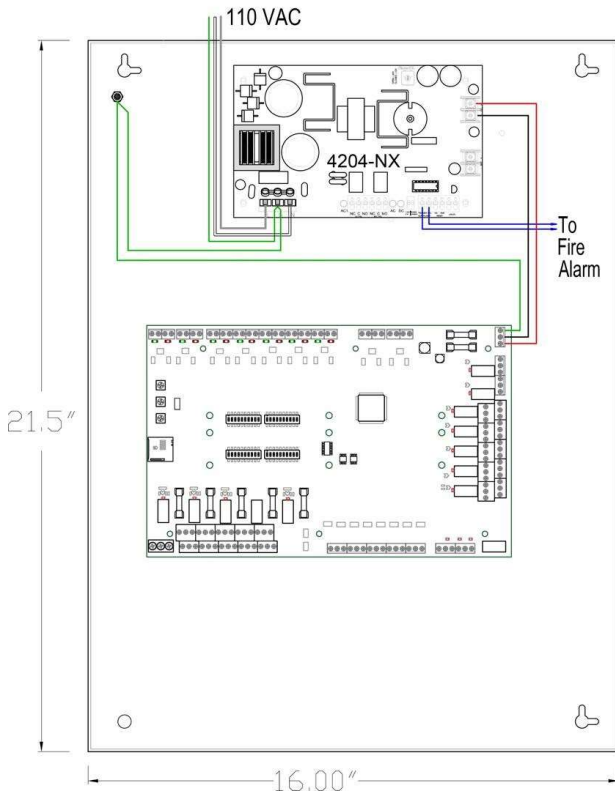
The 48501-EZ is capable of monitoring external threat detection systems: tailgate alarms, metal detectors, duress alarms or guard booth oversight to lockdown selected doors.

Program Mode Select

Various operating modes are selected by DIP switch, including single or two zone mode, one-way lane operation with auto-door sequencing, air pressure equalization mode, and separate relay control of locks and door operators. Three adjustable timers are available for monitoring propped-open doors, timed emergency unlock and air pressure status.



Product Specifications



Physical Data:

#48501-EZ Powered in Enclosure

Enclosure- 12" x 15-1/2" x 4-1/2" deep NEMA enclosure accommodates PLC controller and Power supply.

#48500-EZ PLC Board only 7" H x 11" L

Din Rail Mount. No power supply or enclosure

Electrical: #4204NX

4 Amp Class 2 UL 294 Listed power supply.
AC Input - Fused 110 VAC
DC Output - 4 amp @ 12/24 VDC selectable

Optional 10 Amp Power supply available

#48501-EZ-10

10 Amp UL 294 Listed power supply.
AC Input - Fused 110 VAC
DC Output - 10 amp @ 24 VDC selectable

Optional Battery backup

XBAT- 2 ea. 7AH rechargeable batteries
(for 12/24VDC operation)



Inputs:

Five Inputs for Door Status,
Five Request for Access,
Two for Panic release, Two for Interlock
Shunt/Override, Two for Alarm Reset.
A & B Hold

Outputs:

Five Door Control Relays rated 2 Amps
@ 28 VDC
Five Door Status Outputs
Ten LED traffic indicators (2) for each
door.
A & B Hold

Timers:

Three Adjustable Timers for:
Propped Door Time,
Panic Release Unlock Time
Locked pause time after door use for
inflating door seals, air makeup,
decontamination or mechanical lock
engagement.

Multiple Zones:

Single zone or two zone operation. Run
two independent interlocks from a single
controller.
The A & B inputs and outputs can be
used to connect more than one 48500-Z
together to control more than 5 doors.

Operation –

Doors may be interlocked in any
combination. When a door is in use,
access is denied to any other interlocked
door or doors.

Lock control relays may be set for wet or
dry contacts; powering locks directly,
switching external power or signaling an
automatic door operator.

Lock relay logic may be set for fail safe
or fail secure operation.

Red & Green Traffic LEDs can be
powered directly to indicate door
availability.

There are designated alarm outputs for
each zone to indicate door violations.

Emergency unlock of all doors or by
zone may be triggered by open or closed
circuit. The interlocks can also be
bypassed using the Shunt function.

There are several operating modes
selectable by switch including one-way
mantraps with door sequencing;
separate control of door locks and door
operators; lockdown after door use for
air pressure equalization, inflating door
seals or timing washdowns.



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