# **48900 Series**

# Field Configured Nine Door Interlock



### **Standard Configurations:**

#### 48901 DC Powered PLC Controller:

Mounted in an enclosure with (4) 294 power supply. Controls 2 – 9 Doors in Any Combination Locked or Unlocked

#### **48900XPA** Panel mounted Controller:

PLC mounted on a panel with Standoffs for field mounting in existing Enclosure.

#### 48900 Stand-alone PLC Controller:

PLC circuit board only. No Enclosure or Power Supply.

# **User Programmable PLC Interlock**

#### Field Selectable Door Sequence & Functions

The 48900 PLC interlock controller is a cost-effective method for operating door interlock and mantrap systems of up to nine doors. The fully integrated controller is a one board solution that allows the installer complete control of all operating and configuration options without complex software.

#### **Environmental or Security Applications**

Suitable for air locks or security mantraps with two to nine doors that are locked or unlocked. This controller has outputs for traffic lights, door violation alarm and provides three individual timing sequences for, *Propped Door Time*, *Emergency Overide Unlock Time* & *Rex Unlock Time*.

#### **Access Control Compatible**

Any access control system can be used with the 48900 series controllers. The request for access input utilizes a dry contact. Each door has a form-C SPDT dry contact output to mirror door status back to an access control panel or remote console.

#### **Available with Power Supply & Enclosure**

The 48900 controller can be paired with a 4, 6 or 10 Amp UL 294 power supply that includes a Fire Alarm connection for emergency egress and can provide 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.





#### **Product Specifications**

Emergency Unlock Input Interlock Shunt Input

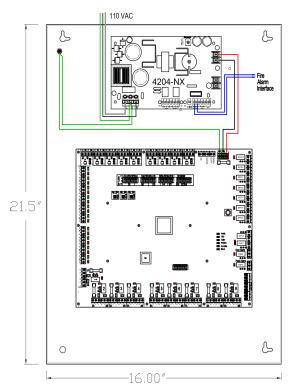
SD Memory Card Slot

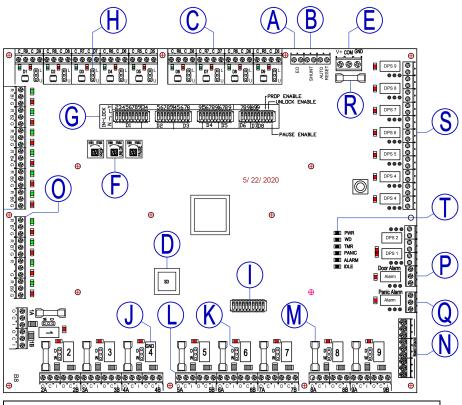
**Timer Adjustment Controls** 

System Power Input

Door & Access Control Inputs

Interlock Setting Switch Block





Door Configuration Jumper

Lock Control Relays

Lock Power Fuse

Lock Control Outputs

**Output Configuration Switches** 

Lock Ground Return Terminals

Lock Output Wet Dry Select

## Physical & Electrical Data:

#### 48901 Powered with Enclosure

NEMA Enclosure - 16"W x 21-1/2"H x 4-1/2"D accommodates PLC controller and 4204NX 4 Amp Class 2, UL 294 Listed power supply (UL) AC Input - Fused 110 VAC DC Output - 4 amp @ 12/24 VDC Optional 6 or 10 Amp Power supply available.

**48900XPA** Panel mounted 13.5" W x 11.5" H **48900 PLC Module** 12" W x 10" H x 1.5" D

#### Inputs:

Nine Inputs for Door Status Nine Request for Access One for Panic release, One for Interlock Shunt/Override

#### **Outputs:**

Nine Lock Control Relays rated 2 Amps @ 28 VDC Nine Door Status Outputs
Powered Red & Green LED outputs for each door One Door Alarm Output, One panic Alarm output

**Timers:** Three Onboard Adjustable Timers for: Propped Door Time, Emergency Overide Unlock Time & Rex Unlock Time

#### Operation -

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Unlocking or opening one door automatically secures other designated doors within the Interlock group. A request for access at any normally locked door will inhibit the REX inputs for all other locked doors and secure all designated unlocked doors in the group.

Red Green Traffic Lights

Door Status Out - Dry

System Status Lights

Door Alarm Output

Panic Alarm Output

Master Fuse

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Lock relay contacts will switch low voltage power to maglocks and/or strikes. Lock outputs can be set for either wet or dry contacts and fail-safe or fail-secure operation. For user feedback, designated red/green LED outputs show lock status for unlocked doors or door availability status for locked doors. Typically a green light indicates that access is permitted, while a red light signals that another door is open and access is denied at this door.

There are two designated alarm outputs; one for an interlock door violation alarm and one to indicate emergency unlock for a panic release.

