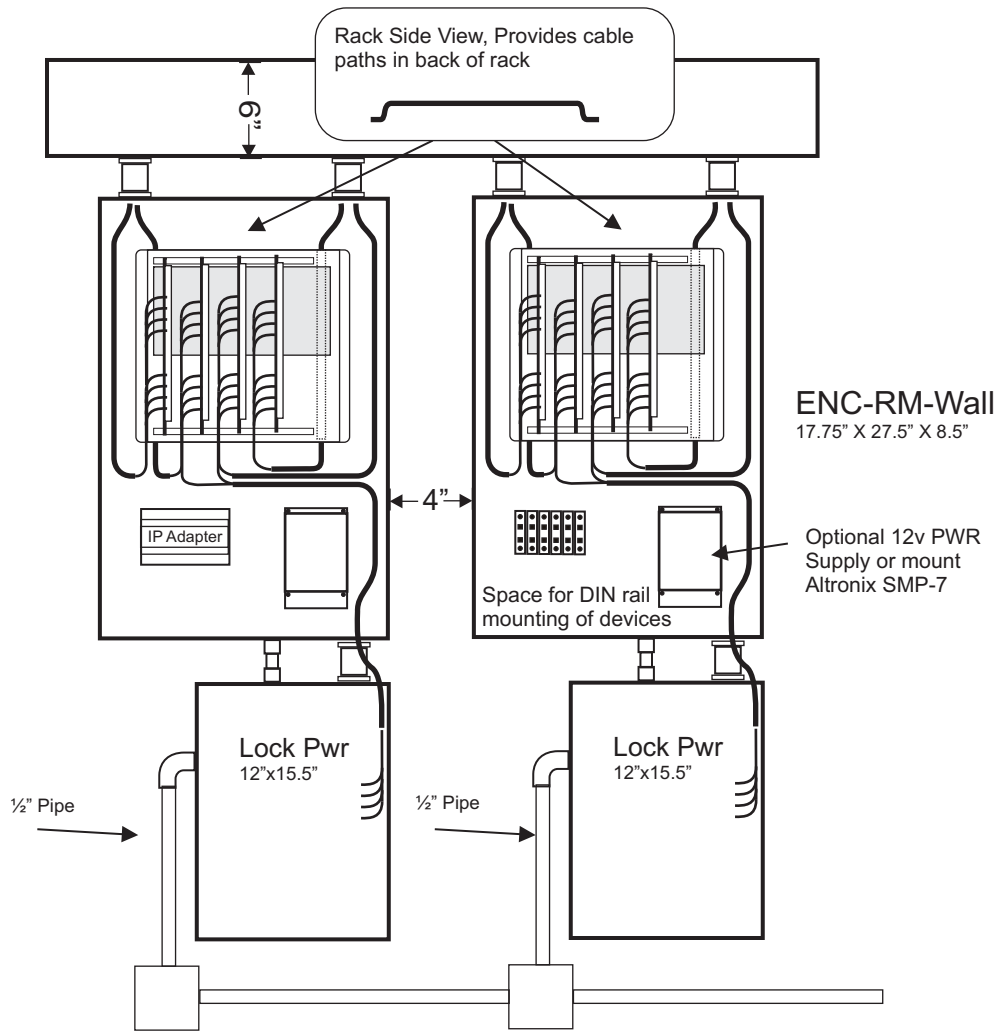


## Sample Wall Rack Configuration



110-220V 20 AMP CIRCUITS Scale 1 inch = 1 foot

## Available Controllers for Rack Setup

- MAC-4Rx (12 or 24v)
- MAC-2Rx (12 or 24v)
- MLC-32i (12v Only)
- MLC-16r (12v Only)
- MLC-8ic (12v Only)
- ETECH-HC0826 (IC Master 12v)

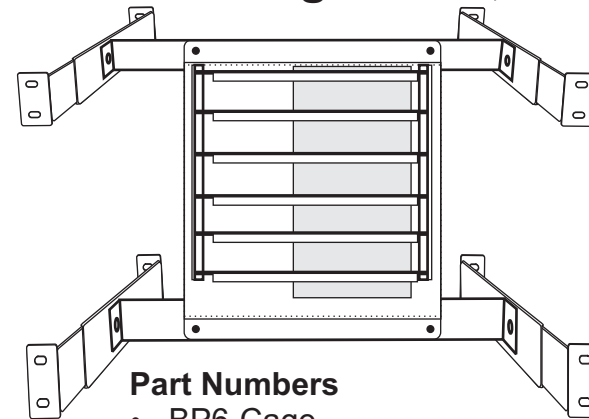
## Enclosure Part Numbers

- ENC-RM-Wall (17.75" x 27.5" x 8.5") Enclosure with BP-6 Cage)
  - ENC-RM-19 Rack Mount Kit for 19" Rack, includes rails and BP-6 Cage
  - PWR-SPS-6.5-12v (6.5 Amp Pwr Supply for 12v controllers)
- The MAC-4Rx and MAC-2Rx can run off the 12 or 24v lock power supply. Mounting studs in the enclosure also support an Altronix SMP-7 power supply.

## IP Adapters

- LT-EA-10
- LT-IZOD

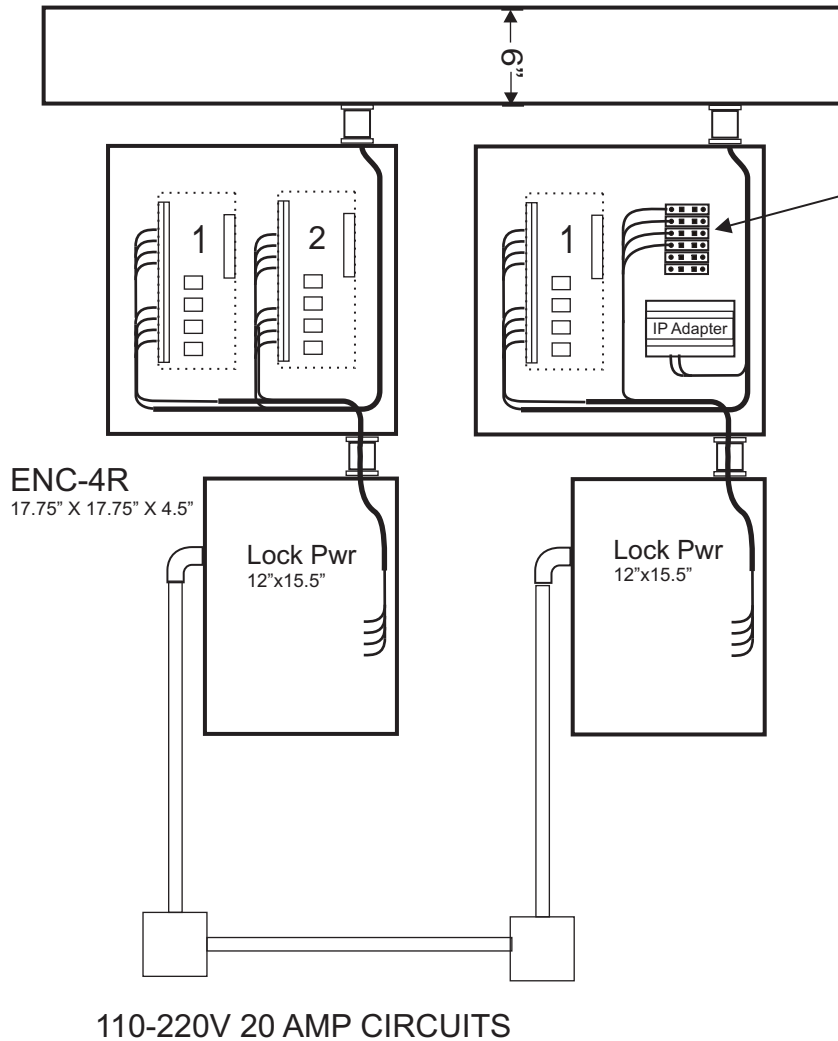
## 19" Rack Configuration, ENC-RM-19



## Part Numbers

- BP6-Cage
- 19-Rack-Rails
- BP1 Back Plate for Power Supply (If needed)  
(Connects opposite side of Cage)

## Sample Wall Configuration



2-Pair or Cat-6 Cabling to field, brings comm, pwr and lock pwr to field devices.

Cabling to remote controllers is illustrated on next page.

### Remote Controllers MLC-RIO, Remote I/O

Overall size (5.4" x 2.44" x 1.5")

- 2 - 8A 30vdc Outputs
- Fused @ 5 amps
- 2 - Audio Relays
- Common Talkpath
- 4 - Inputs (6 Total)
- 2 - Call inputs
- LED status of all I/O
- 12 or 30vdc Power

### MAC-RDC, Remote Door Controller

Overall size (5.75" x 4.45" x 1.5")

- 2 Readers
- 20,000 cards
- 2 Dry C Outputs
- Fused @ 5 amps
- 2 - Audio Relays
- 4 - Inputs (6 total)
- 2 Call inputs
- LED status of all I/O
- 12 or 30vdc Power

### Available Controllers for ENC-4R

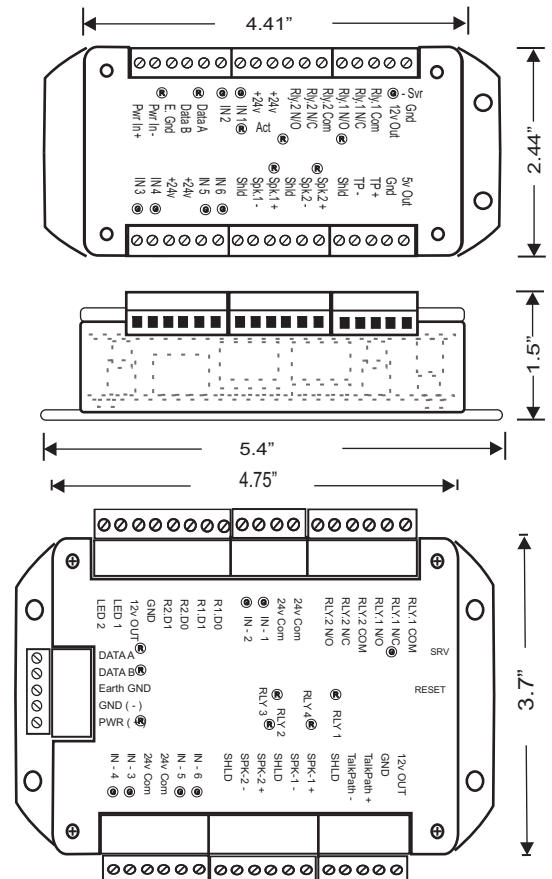
- MAC-4Rx (12 or 24v)
  - MAC-2Rx (12 or 24v)
  - MAC-4R (16 -28v AC or DC)
- 32i, 16r, and 8ic controllers must be Rack Mounted.

### Enclosure Part Numbers

- ENC-4R (17.75" x 17.75" x 4.5")
- The MAC-4Rx and MAC-2Rx can run off a 12 or 24v lock power supply.

### IP Adapters

- LT-EA-10
- LT-IZOD



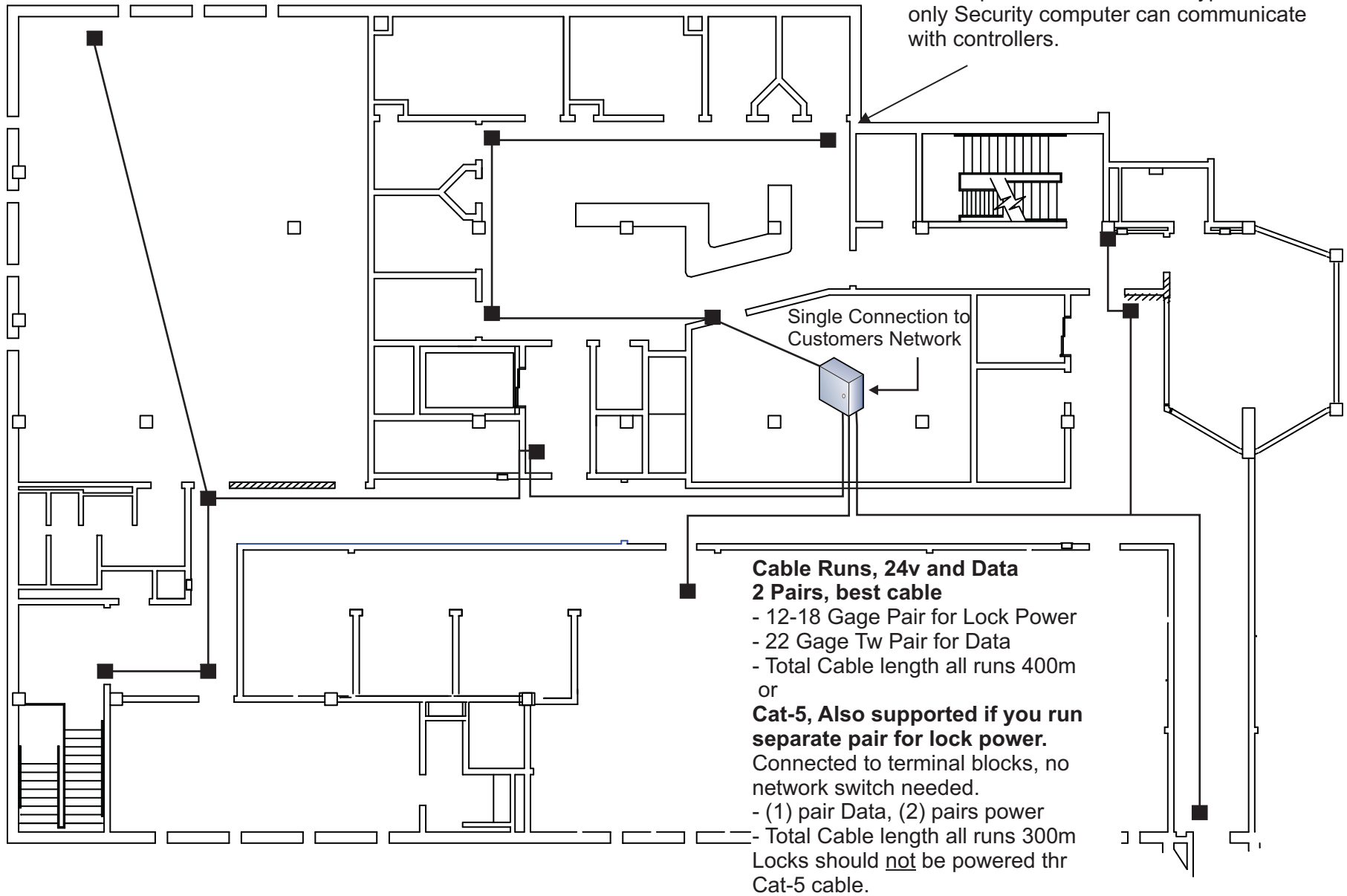
110-220V 20 AMP CIRCUITS

## Distributed Architecture, with Echelon Sub-Network, Free-Topology Cabling

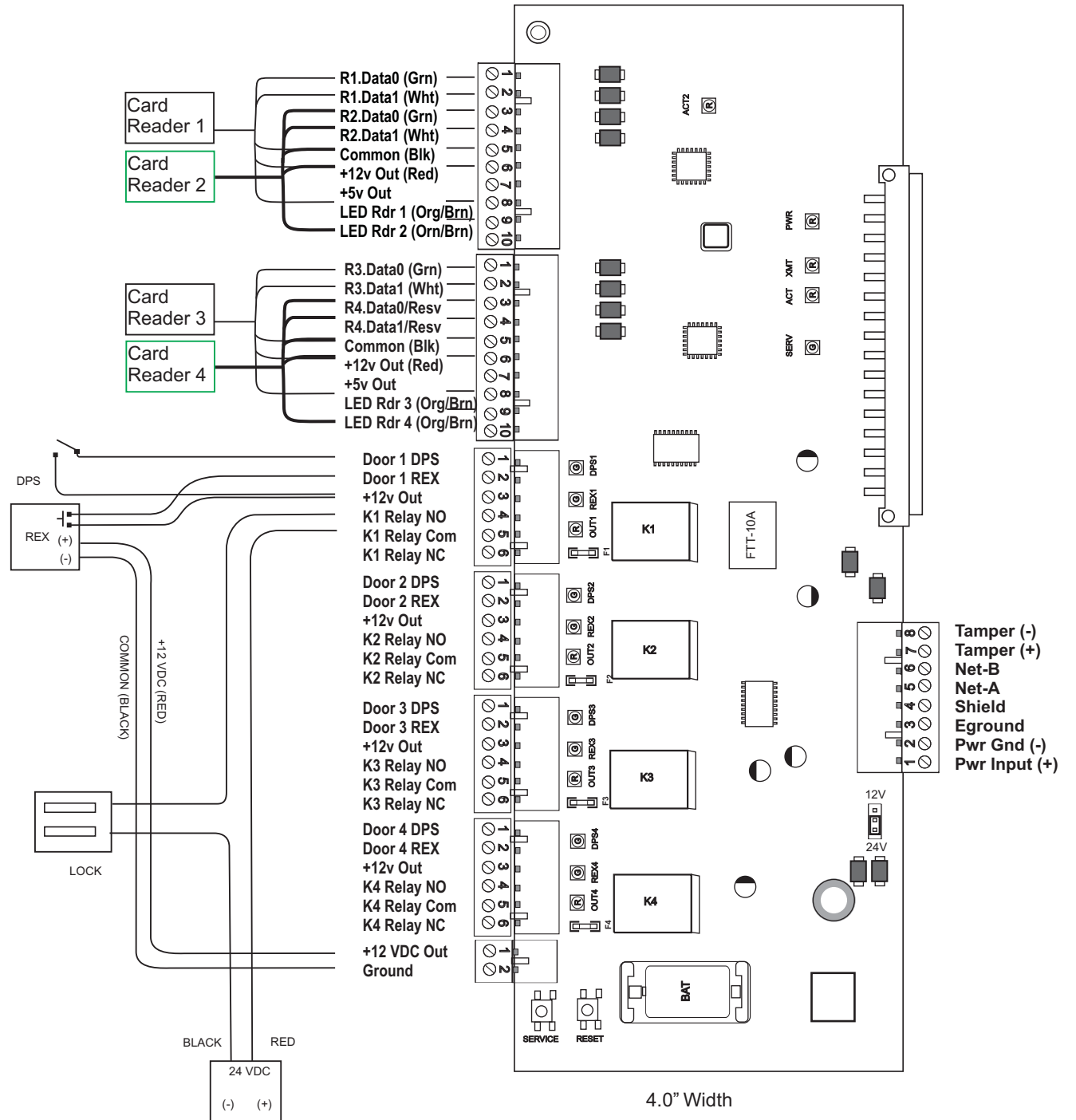
- Remote Door or I/O Controllers

All remote control panels could be IP addressable, but you would lose a huge advantage.

Echelon Network is the secure connection. Although this is on the customer network, no one can talk to the control panels. All data is encrypted and only Security computer can communicate with controllers.

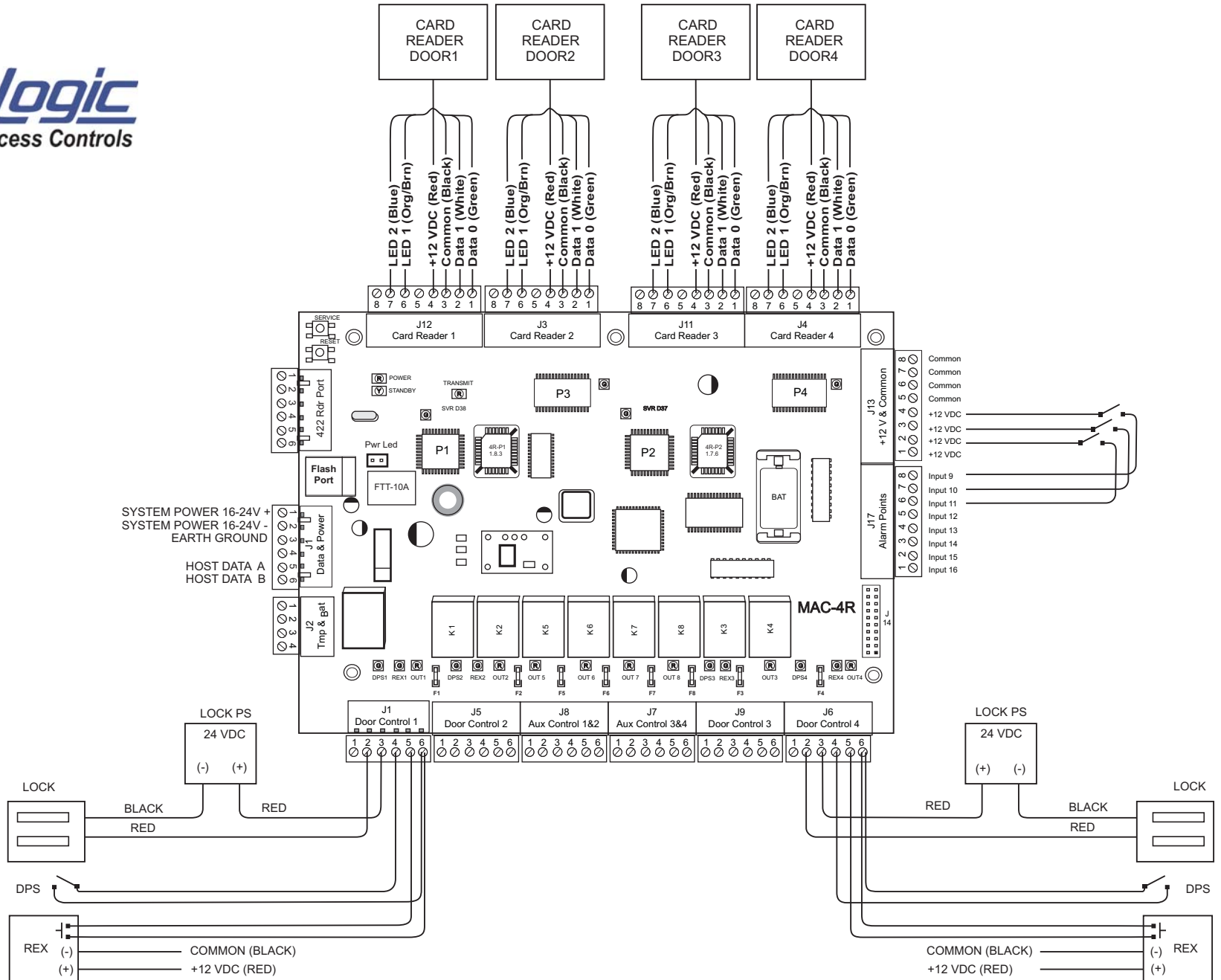


# MAC-2Rx, MAC-4Rx Typical Riser

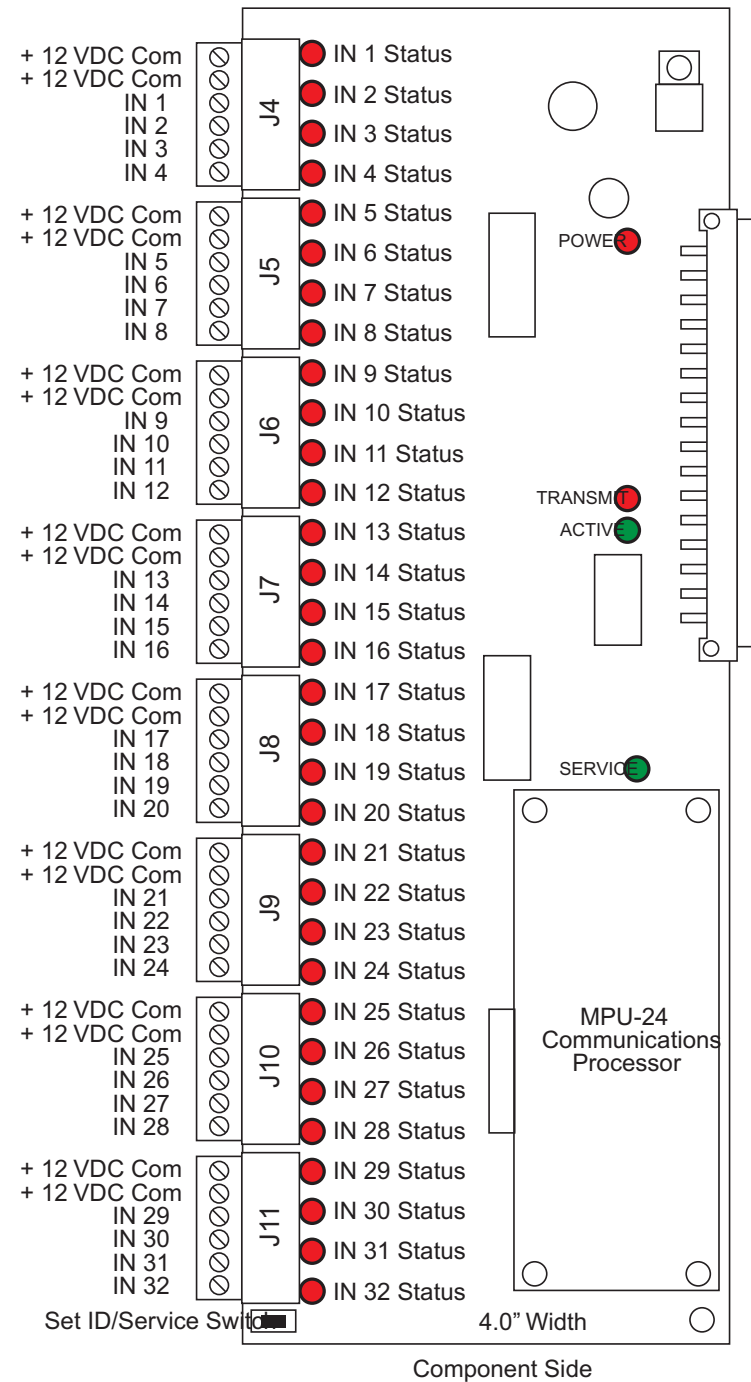
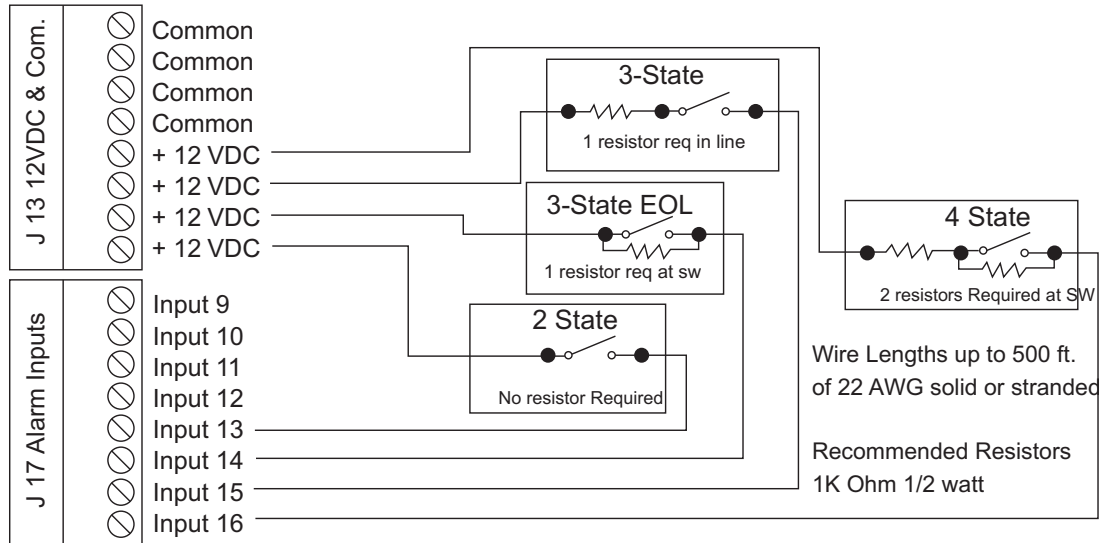


# MAC-4R

## Typical Riser

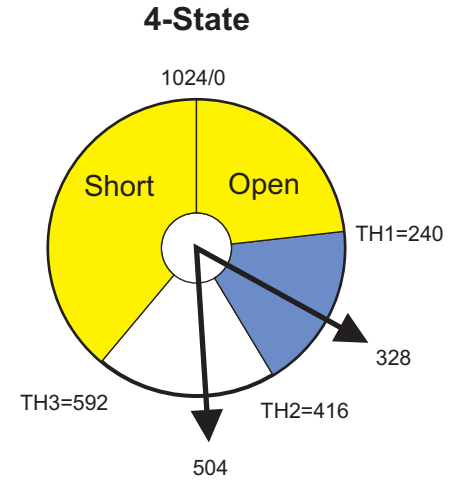
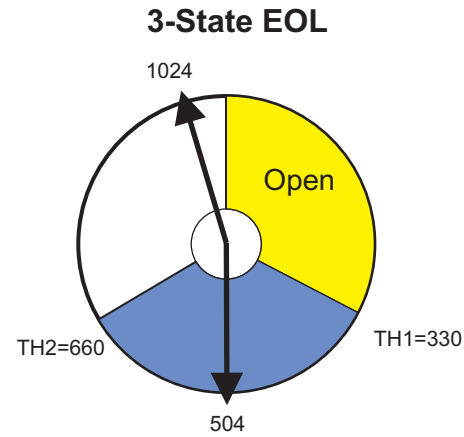
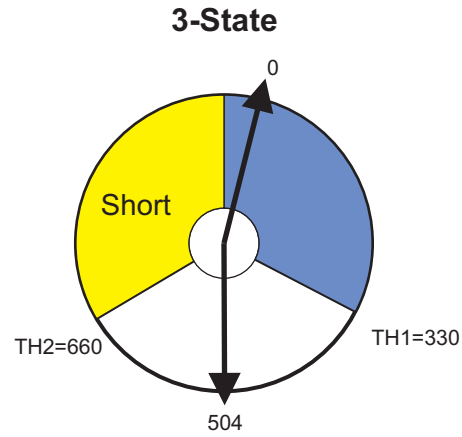
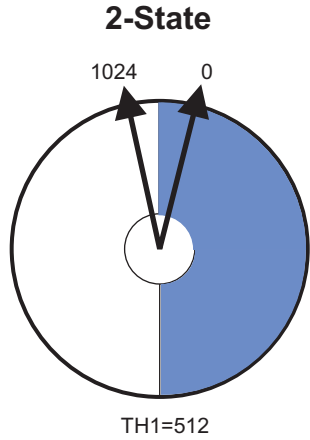


# MLC-32i Typical Riser



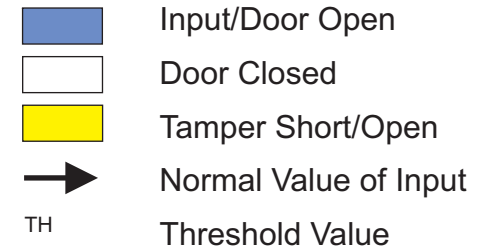
# MLC-32i

## Supervised Input Settings



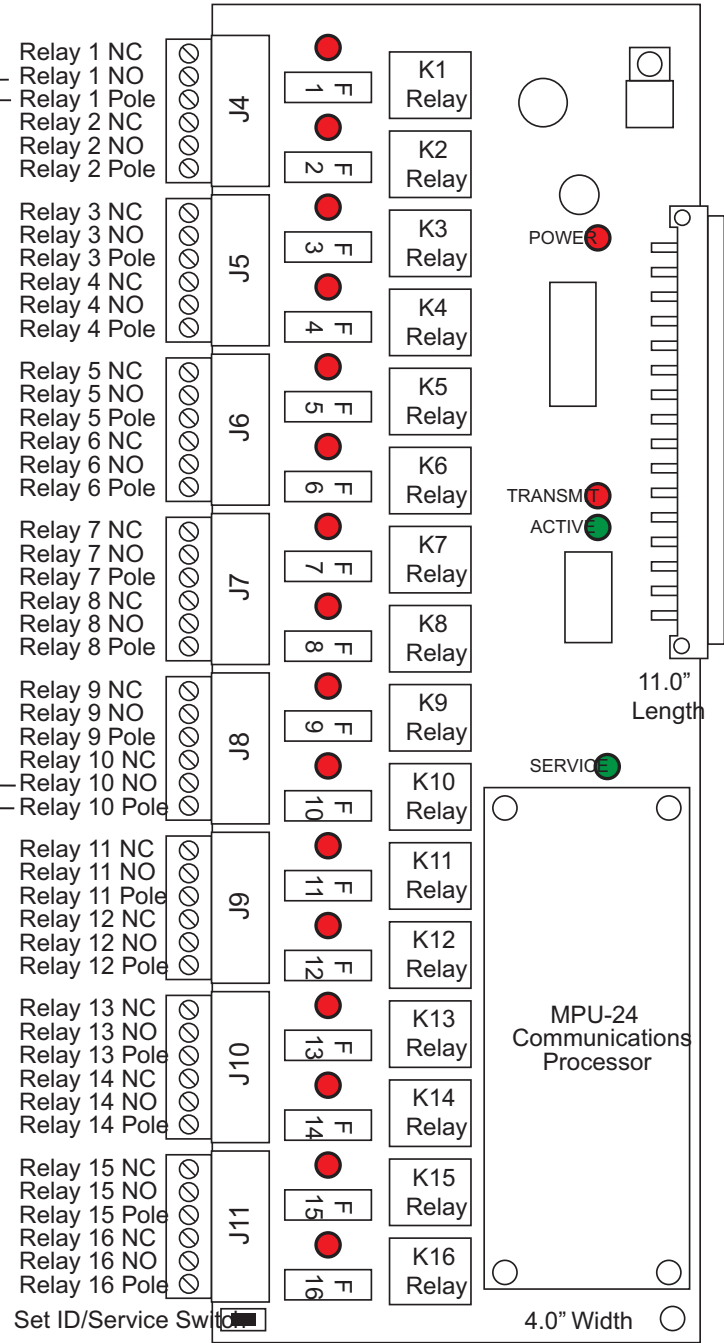
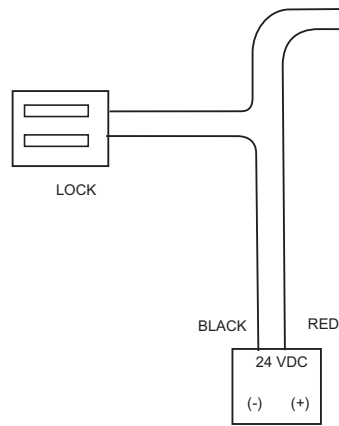
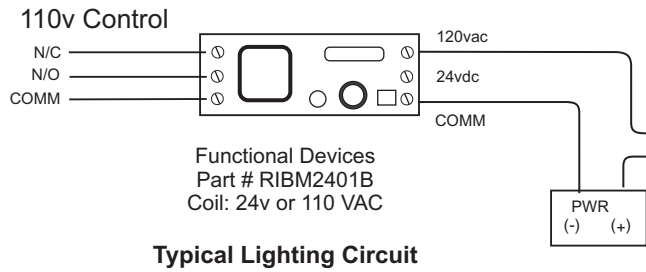
### 4-State using 1K Resistors

Door Status	Res.	Voltage	Digital Value	Best TH Settings
Tamper Open	Inf	13.5v	0	S = 50
Door Open	2K	8.7v	328	TH1=240
Door Close	1K	6.5v	504	TH2=416
Tamper Closed	0	0v	1024	TH3=590



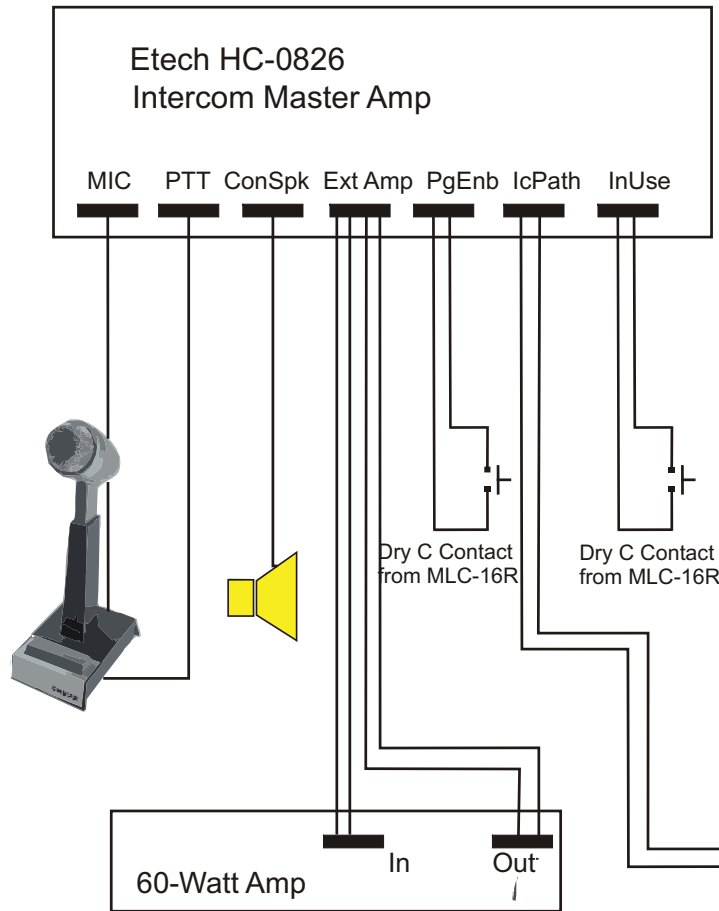
S = Sensitivity of input, Input will not report a change of state unless change in value is greater than sensitivity.

# MLC-16r Typical Riser

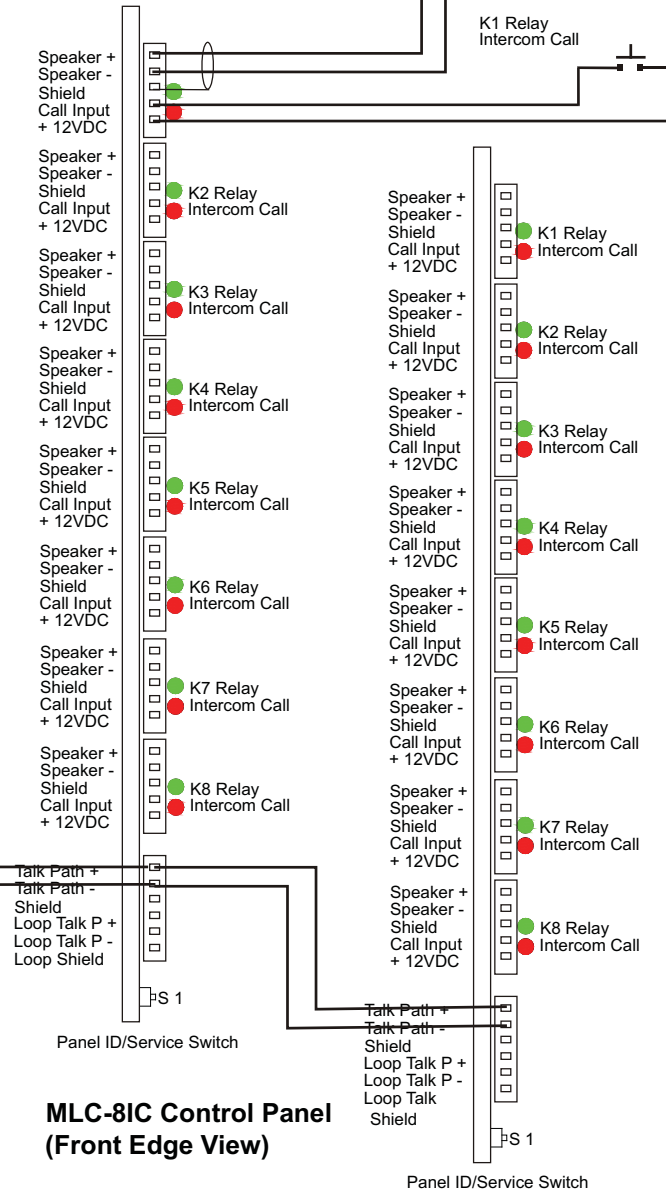




**MLC-8ic  
Typical Riser**



25 Volt Speaker



**MLC-8IC Control Panel  
(Front Edge View)**

**MLC-8IC Control Panel  
(Front Edge View)**

**Default Subnet.Node: 1.125**

**MLC Serial No:**

**MPU Serial No:**

**Neural ID:  
(MAC Address)**

# MAC-RDC Typical Riser

