

### Safety

The product is designated FOR INDOOR USE ONLY. The product is sensitive to Electrostatic Discharges (ESD). The product may be damaged or destroyed if handled or wired improperly. Follow all safe handling and installation precautions at all times.

If you are unsure about any of the content in this guide, or have any questions, please call our toll free number 1-800-528-2806

### CAUTION

To reduce the risk of damage to this device:

- Ensure there is no POE (power over ethernet) supplied to the ethernet port, if this unit is being power via a DC power supply.

### CAUTION

To reduce the risk of product failure or shut down:

- Note that Weigand Readers and Wet Relays share up to 750mA of current together. Total output power is limited by capability of the input power supply. Ensure devices will not attempt to sink more than the amount of available power.
- If product does shut down, remove load, to reset devices.

### Wiring, Signal and Power Specifications

Wiring	Maximum Length	Minimum Gauge
Ethernet / PoE	300 feet (100 meters)	Cat5e
Wiegand	500 feet (150 meters)	22 AWG
Input / Output Circuits	500 feet (150 meters)	22 AWG (18 AWG recommended)

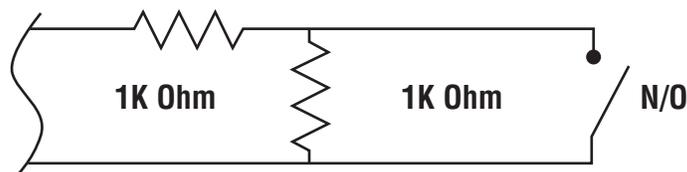
**NOTE:** Minimum wire gauge is dependent upon cable length and current requirements.

Power In	Voltage	Power (min)
Auxiliary Input	12VDC	13 Watts
Power over Ethernet	44-57VDC	13 Watts

**NOTE:** IP Door Controller is to be connected to UL Listed Commercial 294 or 603 Power Supply for Auxiliary, or UL Listed 294/294B PoE Listed power supply for Power over Ethernet.

Power Out	Voltage	Current (max)
Relays (wet)	12VDC	750mA (combined)
Wiegand Readers	12VDC	750mA (combined)
Relays (dry-inductive)	30VDC (max)	2000mA

### Optional End Of Line (EOL) Supervised Inputs



**NOTE:** EOL Supervision is provided by the addition of two 1K Ohm resistors between the IP Door Controller and the input to be supervised, as per the above diagram.

# Installation

## Install Electrical Box

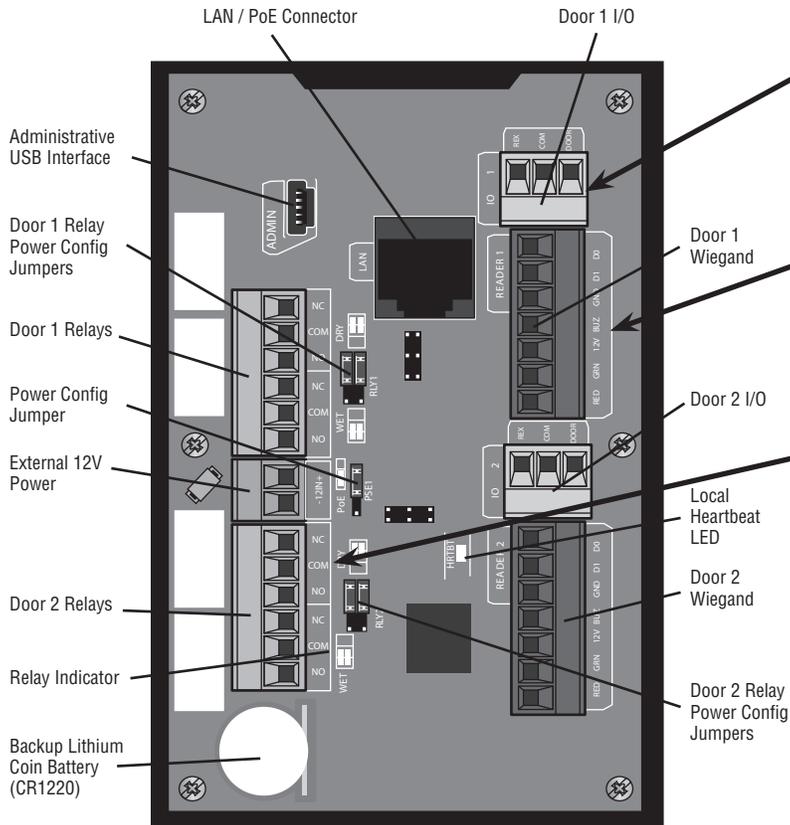
For new installations, use a 4" square electrical box (minimum of 1 1/2" deep) with a single-gang plaster ring. Use Wiremold® V5744S or BW35 for surface-mount installations.

To prevent tampering: Conceal plaster ring mounting screws with drywall or use tamper resistant screws.

Remove metal back-plate from unit and mount to electrical box. (Figure 1)

Position the IP Door Controller and secure mount with a screw.

## Wiring



Signal	Description
REX	Request-to-exit Contact
COM	Common Earth
DOOR	Door Contact
RED	Red LED Control
GREEN	Green LED Control
12V	+12VDC Power
BUZ	Buzzer Control
GND	Ground
D1	Wiegand Data 1
D0	Wiegand Data 0
NC	Normally Closed Relay Contact
COM	Common Earth
NO	Normally Opened Relay Contact

Front Panel	Meaning
Status	Solid: Unit has power
Active	OFF/Solid: Unit starting Blinking: Unit operational
Network	Orange LED: 100MBit Link Blue LED: Network activity Right Blue LED: Good link

Back Panel Connection	Description
Administrative USB	Connect via Mini-USB to access administrative
LAN / PoE Connector	Connect to network. May also carry 802.3af/at power
Backup Lithium Battery	Battery provides power to keep time in case of primary power outage <b>CAUTION: Disconnect before servicing.</b>
Local Heartbeat	LED indicates proper function
Relay Indicator	LED lights when relay is engaged (one per relay)
Relay Power Configuration	Two jumpers select between WET and DRY modes of operation. When jumpered for WET, power is supplied through the relay in both normally closed and normally open configurations.
Power Configuration	Jumper selects between PoE and Auxiliary Power