

Rise Exterior Intercom

August 2022

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Door Unlocking Solution

Rise Exterior Intercom

Rise Intercom is a secure touchscreen that provides access enablement features for occupants, visitors, delivery personnel, and others. Rise Intercoms are often used to enable unlocking doors, elevators, or exterior gates. The exterior housing device is engineered to handle difficult weather conditions.

Visitor Access

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Rise Pass QR code scan

Guest Portal Swipe to Unlock

Intercom to Occupants

Occupant Access

- In-App Swipe
- Tap Reader
- QR code scan
- PIN code entry

Rise Relay

Rise Relays are typically installed near the existing access control panel. Relays trigger the door/turnstile to unlock.

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Intercom Features.



Front View

DIMENSIONS 6.0" width x 10.34" height x 3.4" Depth TEMPERATURE -30C to +70C POWER 24V DC 2A CONNECTIVITY Wired (RJ45) DISPLAY 800 x 480 pixels (RGB)



Deployment.

Determine locations and quantity of Intercoms	Have a coordination meeting with all parties involved in installation.	Property to provide power & data wiring	Install Intercom & Relay devices	All set!
SCOPE	COORDINATE	PREPARE INFRASTRUCTURE	INSTALL	TEST
 Determine the Doors/Access points to unlock. Determine location of the access control system device that unlocks each door. 	 Coordinate all parties involved in the installation. Plan for property to provide the device power & data connections 	 Provide required wiring to both the intercom and relay device locations. Coordinate with access control provider to incorporate the relay into the Access Control System. 	 Rise ships pre-configured hardware to the property for mounting by local teams. OR Rise brings devices on site for device mounting & start-up. 	- Test devices to ensure proper operation.

These steps typically require the property to provide labor from the property's access control or low voltage contractor.



Installation Details

Dimensions.



NOTES: All dimensions shown are in inches.

Mounting Plate



NOTES:

Ensure back plate mounting location complies with local codes and standards.

Device Mounting.

OPTIONS Recessed 2-Gang Electrical Box (transformer in junction box)

- The device mounting height is not specified by VTS Rise. Installation should meet local standards and accessibility codes such as ADA requirements.
- Requires a waterproof seal around the intercom device.

Wall PenetrationExterior Wiring(transformer in junction box)(transformer in electrical room)



Device Mounting.

EXAMPLES Recessed 2-Gang Electrical Box (transformer in interior room)



Option

2-Gang electrical box recessed into the wall with Cat6 and 18/2 gauge wire ran back to 120V standard receptacle in IT closet. Recessed 3-Gang Electrical Box (transformer in junction box)



Option

3-Gang electrical box installed vertically and recessed into the wall with a Cat6 and a 120V standard receptacle. Exterior Housing (transformer in exterior housing)



Option

The kiosk is mounted to the waterproof electrical box and provided by the client.

Power & Data Wiring.



Back View

RJ45 (wired internet only)

Power Input 2.1x5.5mm Barrel Connector 18ga 2 conductor wire

Important Notes

1) Client must provide and maintain an internet connection using an RJ45 connector to the device.

2) Select an option for Power/Data to Kiosk Housing (2.1 x 5.5 mm Barrel connector) Option - Rise to provide a DC power converter, from a client provided 110-120 VAC receptacle Option - Client to provide a power source with an output of 24 VDC, 2A. Minimum of 18 gauge, 2 conductor wire.

- 3) The device can fit over a 2-Gang recessed electrical box, or other space made available for wiring connections. A direct wall penetration can also be used. All wiring and wall penetrations are provided by the client.
- 4) Client to ensure the electrical box / wire locations are placed at an acceptable height in accordance with local codes and standards.
- 5) Ensure proper waterproofing is applied around the device enclosure so no water can enter the device or wiring enclosures.
- 6) For operation through power outages, coordinate a dedicated electrical circuit on UPS for both power & network connections
- 7) The Rise Relay is a separate component that is used to unlock doors. Refer to the Rise Relay Specification Sheet.



Network Schematic.

Door Unlocking



*Property can alternately provide a power supply of 24V 2A using 2 conductor wiring, instead of using the wall outlet.

**Can use POE power injectors or 10-24V wiring instead of POE switches where applicable



Rise Relays

THINGS TO CONSIDER

Rise Relay

Single Channel (R-1): The **Cat6 cable** should be run to the location of the access control panel that controls the door we are tying into.

The cable should be terminated with an RJ45 connector and tested for power and internet.





DEVICE SPECIFICATIONS

Power Requirements

- Voltage:
 - POE and/or 9-28 VDC
 - Max Current: 233mA

Relay Contacts

- Number of Relays: 2
- Max Voltage: 28VAC, 24VDC
- Max Current: 3A
- Contact Type: SPDT (Form C)
- Load Type: General Purpose
- Contact Resistance: < 50 milliohms initial
- Contact Material: AgSnO2
- Environmental Rating: Over voltage Category II, Pollution Degree 2
- Relay Modes: ON/OFF or Pulsed
- Pulse Timer Duration: 0.1 to 86,400 Seconds (1-day)

Network

- Type: 10/100 Base-T Ethernet Port
- Setup: Static or DHCP IP address configuration

Connectors

- Power, Outputs, and Inputs: 14-Position, 3.81mm, Removable
- Network: 8-pin RJ-45

Physical

- Operating Temperature: -40°F to 150°F (-40°C to 65.5°
 - C)
- Size:
 - 1.41in (35.7mm) wide
 - o 3.88in (98.5mm) tall
 - 3.1in (78mm) deep (not including connector)
- Weight: 5 oz (142 grams)
- Enclosure Material: Lexan 940 Polycarbonate Plastic
- Enclosure Flame Rating: UL94 V0

Electromagnetic Compliance

- IEC CISPR 22, CISPR 24
- EU EN55024, EN55022
- X-401-I: FCC 47CFR15 (Class B)
- X-401-E: FCC 47CFR15 (Class A)

Product Safety Compliance

• IEC 61010-1





Thank You