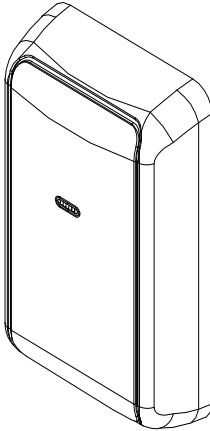




A LIFETIME OF SECURITY



# Door Opener Reader

Model: RP432DOR

**Installation and Programming Guide**



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## 1. Introduction



### Important Notes

This guide is intended for installers that are familiar with the RISCO LightSYS Plus programming, either from a keypad or the Configuration Software. This guide provides additional information on RISCO's new bus device, the Door Opener Reader. For additional info regarding the programming of RISCO panels please refer to the *LightSYS Plus Installation and Programming Manual*.

## What is the Door Opener Reader?

The RISCO Door Opener Reader, which is integrated with your LightSYS Plus security system (Ver 2.00 and above), is designed for use in small to medium-sized companies. The Door Opener Reader is used to control access to users of the LightSYS Plus system to the various areas and doors on the premises. In addition to the Door Reader, the doors can be equipped with devices such as door contacts, door relays, and motion detectors.

Up to 32 Door readers can be connected to the LightSYS Plus using RS485 communication enabling the security system to control up to 32 doors.

The Door Opener Reader employs an advanced RFID technology in a rugged and stylish enclosure. It is compatible with 13.56 MHz RFID read-only tags, read/write tags and smart encrypted data tags. It is suitable for indoor and outdoor installation and has a rugged polycarbonate enclosure and molten epoxy for vandal resistance. The Door Opener Reader can be programmed from an installed LCD keypad or using the Configuration Software Application, Version 4.1 and above.

## Main features

- Up to 32 door readers per system (16 door readers per single BUS)
- Fully supervised as RS-485 BUS accessory
- System Arm/Disarm from the door reader using proximity tag
- Flexible time definition to determine when users can access doors
- REX (Request to Exit) Input per door
- 2000 dedicated Event log database for access of events
- Forced Door protection feature
- Programmable from the keypad or from the Configuration software



## Technical Specifications

- Input Power: 13V +/- 10%
- Current consumption: 60mA Max
- Transmit Frequency: 13.56MHz
- Power Output: 60 dBμA/m Max
- Main Panel Connection: 4-wire BUS RS-485, up to 300m from the Main Panel
- Reading Distance: Up to 2. 5 cm
- Operating Temperature: -30°C to 65°C (-22°F to 149°F)
- Storage Temperature: -40°C to 85°C (-40°F to 185°F)
- Operating Humidity: 5% to 95% Non condensing
- RFID protocols supported: ISO 15693
- Dimensions (W x H x D): 50 x 87 x 20 mm (2.0 x 3.4 x 0.8 inch)

## Red LED and Buzzer Indications

The following table provides the reader's Red LED and Buzzer indications during normal operation mode:

Status	LED State	Beeps
Steady -Power On	On	
BUS Trouble	Blinks continuously	
Confirmation	Short blink	1 short beep
Error (Example: Wrong tag)	3 short blinks	3 rapid beeps
No Power	Off	

## 2. Installing the Door Opener Reader

### Mounting

The Reader can be mounted indoors or outdoors on any surface (wood, metal, concrete, etc.).

1. Using a screwdriver, remove the cover from the reader (see Figure 1).
2. Choose the required location and mark the installation holes and the wiring passage hole while using the reader base as a template.
3. Drill a 10 mm hole for the cable passage and two installation holes, 4mm each.
4. Secure the reader to the surface using the supplied screws (see Figure 2).
5. Route the cable to the RISCO Bus and wire according to the *Wiring* section.
6. Replace the cover.

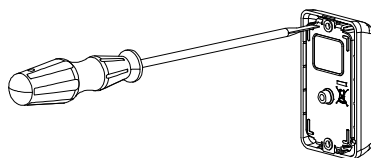


Figure 1

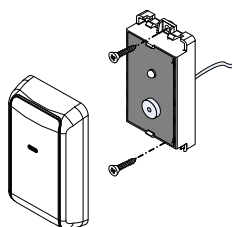


Figure 2

### Wiring

The Door Opener reader is connected to the Main Panel BUS. Wire the reader to a BUS on the LightSYS Plus according to the following table:

Terminal	Description/Action
RED AUX	Connect the wires respectively, point to point, according to the indicated colors.
COM BLK	
BUS YEL	
BUS GRN	



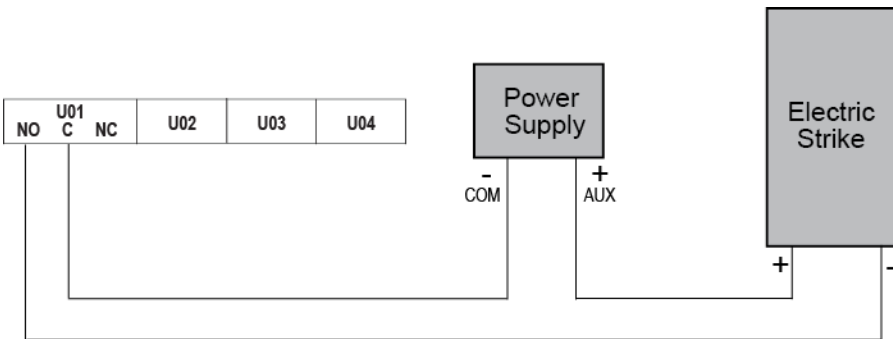
#### NOTES:

1. Do not connect the reader to a BUS that is defined as Fast BUS
2. Up to 16 readers can be assigned per single BUS

## Connecting Electric Door Locks

After the electric door locks are installed on each door (according to the instructions provided by the manufacturer), you must connect them to a LightSYS Plus utility output relay. Each reader can control a single door output relay. The electric locks to be used should have a maximum power consumption of 24VDC / 3 Amp and must be provided with a separate power supply source and a backup battery. Each door lock can be defined as normally open (NO) or normally closed (NC). (RISCO PN RP296E04000A – 4 Outputs relay)

The diagram shown below illustrates a normally open (NO) connection of a door lock to relay output.



### NOTE:

It is recommended to use RISCO Group's power supply, as it is connected to the BUS and automatically checked by the security system. Then if there is a problem, the system sends out an alert.



### IMPORTANT:

When using RISCO Group's power supply as an external power supply to the electric lock, do not connect the AUX (Red) terminal to the BUS.

### 3. Programming the Door Opener Reader

This chapter provides detailed instructions for programming the Door Opener Reader and includes the following sections:

1. Adding a new reader
2. Define utility output for electric door lock
3. Define door alarm parameters
4. Define Request to Exit zone
5. Configure users for door control
6. Configure time schedule for reader operation
7. Maintenance and Diagnostics



#### IMPORTANT:

Ensure that your security system is disarmed before you program any of the Door Opener functions and that readers are connected to the Main Panel.

#### Adding a new reader

The procedure to add a new reader to the system is identical as adding any other BUS device. (For detailed information refer to the *LightSYS Plus Installation and Programming Manual*).

The main difference is that the ID of the reader is automatically set by the system (No Dip switch Settings).

When performing **Auto Device setting**, the reader will be assigned to the first available location. If required, you can modify the reader location at a later stage from the **Installer Programming Menu: 8) Devices > 6) Door Opener**

When adding a new reader (**Programming menu 7) Install > 1) BUS Device > 1) Auto add/del**), define the following parameters.

- **Mask:** The Partition Mask screen specifies the partitions that are controlled by the reader. Using a tag, Authorized User can Arm/Disarm the partitions that are common to the reader's partitions.

- **UO Door Relay:** Select a single utility output that will be used to control the door next to the reader. This output should be connected to an electric door lock.
- **REX (Request to Exit) Input:** Specifies the zone “UO/REX TRIG” (push button) that will activate the output connected to the door.
- **Zone Input:** Select from a list, a single zone that will be used to trigger door alarms. Usually, this zone should be the zone defined for the installed magnet contact, for example, Exit /Entry.  
The selection of the zone will be followed by two control options:
  - **Forced Open Y/N?:** Define if an alarm should be triggered from the selected door.
  - **Door Open to Long (DOTL) Y/N:** Define if an alarm should be triggered for the selected door.

## Define Door open Relay for electric Door Lock


This section refers to the reader’s programming option: **UO Door Relay**.

To control an electric door lock using the Door Opener Reader, define the utility output that is connected to the electric door lock as type: **Follow Code**.

Step 1: During the Reader definition process, select a single utility output that will be used to control the door next to the reader.

Step 2: Define the Utility output as **Follow Code**.

1. From the Main **Installer Programming Menu: 3) Outputs > 4) Follow Code**.
2. Select 2> Door Opener.
3. From the list, select the users (codes) that will have permission to control the output that use the specific reader to open the door.
4. The output will be activated by a user tag that is presented to a reader that is assigned to the output.

	<b>NOTES:</b> This output cannot be activated by a tag from a keypad. BY default, the output is defined as N.O. with a pulse duration of 5 seconds
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## Define Request to Exit Zone

Next to each door you can connect a **Request to Exit** Device. Request to Exit devices enable users to exit from a locked door. This can be a passive infrared unit, a request to exit switch (REX), or any other form of dry contact.

1. During the Reader definition process, select a single zone that will be used as Request to Exit feature.
2. Physically connect the REX device to the zone number you selected.
3. Define the selected Zone Type as **UO/REX Trigger** in the **Installer Programming menu 2) Zones menu**.

## Define Door Alarm

This section refers to the reader's programming option: **Zone Input**.

During the Reader's definition process, select from a list a single zone that will be used to trigger a door alarm. When the door is defined, select to enable, or disable each type of Door Alarm for the specific reader. The Door Alarm refers to 2 events:

- **Door forced open:** A door alarm is activated when the door is opened without presenting a tag to the reader or without using the Request To Exit push button. During a Forced Open event, a push notification message will be sent to iRisco App, alarm will sound from the keypad's buzzer or a BUS siren, and a "Forced Door Open" message will appear.
- **Door Open Too long (DOTL).** If a door is opened (by presenting a tag to the reader) for more than the predefined allowed time, a push notification message will be sent to the iRisco App, alarm will sound from the keypad's buzzer or a BUS siren, and a "Door Open Too Long" message will appear.



## NOTES:

1. Following “Door Open Too long” and “Door forced open”, the sound of the keypad’s buzzer and the siren is set according to the System Sound definition: **Tamper Sound at Disarm**
2. Define the time duration for the door to remain open from the Installer Programming Menu [1][1][1][9] **Door Open Too Long (DOTL)**: A timer that defines how long (in seconds) the door can remain open before the alarm notification is triggered. A user should enter a code or present proximity tag to restore the door alarm. (Default: 20 seconds)

## Configure Users for Door Control

The process of assigning users to a specific reader is done during the process of defining a utility output as Follow Code. For more information, refer to the section “Define Door Open relay”

By default, users with Authority levels “Grand Master” or “User” can perform both Arm / Disarm and Open-door activities from a reader, using a proximity tag.

In case you need to define a user that will only have the capability to open a door (without having permission to Arm/Disarm from the reader), you need to define the user as UO Control authority level.



## Configure Time Schedule for Reader Operation

For high security reasons, you can define time schedule that disables selected users to use selected doors during 1- or 2-time intervals per day. By default, users do not have any limitation.

When the schedule is activated, users will not have access to the door or use the reader to perform Arm / Disarm at the specific time interval.

The definition of a schedule for Door Reader is done from the Configuration Software > Scheduler screen > Type = Door Opener

## Diagnostics

From the **User Menu, Maintenance > Diagnostics > Door Opener**, you can test a Door Opener reader and get the following information:

- Door Opener's Diagnostics: Voltage and Current level
- Door Opener's Software Version
- Door Opener's Serial Number

## Event Log

The activities performed from the Door readers will be logged in a dedicated event log database capable of storing up to 2000 events.

To view the Door Reader event log from the keypad, go to the **User Programming Menu: Event Log Menu > AC Event Log**.

## 4. Using the Door Opener Reader

The Door Opener Reader can be used to allow entering/exiting doors and for arming/disarming the security system

### Entering / Exiting Doors

Doors that are assigned with Door Opener readers can be entered/exited by all users with proximity tags that are assigned with their security user codes. The access tag must be:

- Used only with readers whose user partitions are at least the same as one of the reader's partitions
- Used only when the reader is active during its assigned time windows.

#### To enter a door

1. Present your tag to the reader at a maximum distance of 2.5 cm. The system verifies the tag (indicated by a confirmation Red LED and a single short beep) and opens the door. An unspecified tag will be indicated by 3 short beeps.

#### To exit a door

2. If the door is equipped with RXE, push the RXE button to activate the door relay and open the door.


## Arming / Disarming the system

The system can be armed/disarmed using a door reader by any user that is approved for system Arm / Disarm.

	<p><b>NOTE:</b></p> <p>A user defined with authority level UO Control cannot Arm / Disarm the system from a reader.</p>
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To arm/disarm the system using proximity tags, the following criteria must be met:

- The access tag must be used only when the reader is active during its assigned time windows.
- The access tag's partitions are at least the same as one of the reader's partitions

	<p><b>NOTE:</b></p> <p>When performing Arming / Disarming, the system will arm / disarm only the partitions that are common to the reader and user definition</p>
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### To Arm the system

1. Present an RFID Tag/ card to a reader **three times** within a short period of time.
2. The system verifies the tag (indicated by a confirmation Red LED and a single short beep) and arms the relevant partitions.


### To Disarm the system:


1. Present an RFID Tag/ card to a reader. The system will be disarmed, and the door will open.

## Adding / Deleting Tags from a Door Reader

The LightSYS Plus has the capability of adding a proximity tag to each user code. With the new BUS reader, adding and deleting a proximity tag can also be done from a proximity reader and a keypad, as well as from a keypad.

### To add a new proximity tag from a reader


1. From a keypad, press  and enter your code followed by ✓ .
2. Using the arrow keys, scroll to **Codes/Tags** and press ✓ .
3. Scroll to **Define** and press ✓ .
4. Select the user to which you want to assign the proximity tag and press ✓ . Each proximity tag can be assigned to only one user.

	<b>NOTE:</b>
	If (****) is displayed, this indicates that a user has already been assigned to a specific proximity tag.


5. Scroll to **(Re)write Tag** and Press ✓ .
6. Select **DOR (Door Opener Reader)** to enroll by a reader.  
The reader's RED LED, that indicates enrolling, will start to blink rapidly. (In all other door readers, the RED LED will stay steady.)
7. Within 10 seconds, approach the proximity tag at a maximum distance of 2.5 cm from the front of the reader.

The reader automatically reads the proximity tag and saves it into the system's memory. Once the proximity tag has been successfully recorded, a short confirmation beep sounds from the reader and the RED LED will Flash for 1 sec.


If the proximity tag is already stored in the system's memory, the reader will sound 3 error beeps.

	NOTES:
	<ol style="list-style-type: none"> <li>1. Once a proximity tag is recognized, it will operate from all keypads and readers for Arm / Disarm operation, and it will also operate for opening doors in all readers assigned with the user code.</li> <li>2. The programmed proximity tag has the same permissions that are defined for the specified user code</li> </ol>

## To delete a proximity tag from a reader

1. From a keypad, press  and enter your code followed by ✓ .
2. Using the arrow keys, scroll to the option Codes/Tags and press ✓ .
3. Scroll to Del By Tag and press ✓ .
4. Within 10 seconds, approach the proximity tag at a maximum distance of 2.5 cm from the front of the selected reader.

If the proximity tag was deleted, the reader will sound a confirmation beep. If the system does not recognize the proximity tag, the reader will sound 3 short error beeps.

	NOTE:
	<p>If the keypad that is used for the programming supports proximity tags, delete the tag from the keypad and not from the reader.</p>



## UKCA and CE Red Compliance Statement

Hereby, RISCO Group declares that this equipment is in compliance with the essential requirements of the UKCA Radio Equipment Regulations 2017 and CE Directive 2014/53/EU. For the UKCA and CE Declaration of Conformity please refer to our website: [www.riscogroup.com](http://www.riscogroup.com)

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