



SYGONIX 2380475 Rfid Access System Instruction Manual

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sygonix®

SYGONIX 2380475 Rfid Access System



Intended use

This product is designed to prevent unauthorized access to doors (e.g. in an office) and to activate/disable alarm systems. Suitable transponders can be used as control units. Holding a paired transponder in front of the reading surface activates a potential-free relay changeover contact (see contact rating under “Technical data”). In this case, for example, a door opener or an alarm system can be triggered. The product is intended for vertical installation on a wall and is suitable for indoor and outdoor use (IP 66). For safety and approval purposes, do not rebuild and/or modify this product. Using the product for purposes other than those described above may damage the product. In addition, improper use can cause hazards such as a short circuit, fire or electric shock. Read the operating instructions carefully and store them in a safe place. Only make this product available to third parties together with its operating instructions. This product complies with statutory, national and European regulations. All company and product names contained herein are trademarks of their respective owners. All rights reserved.

Delivery content

- RFID module
- Fasteners (2x special screws with matching L-key, 4x screw head stickers, mounting frame with 4x screws and 4x dowels)
- Master transponder
- 1N4004 diode (for relay changeover contact)
- Operating instructions



Up-to-date operating instructions

Download the latest operating instructions at www.conrad.com/downloads or scan the QR code shown. Follow the instructions on the website.

Description of symbols

- The symbol with an exclamation mark in a triangle is used to highlight important information in these operating instructions. Always read this information carefully.
- The arrow symbol indicates special information and tips on how to use the product.

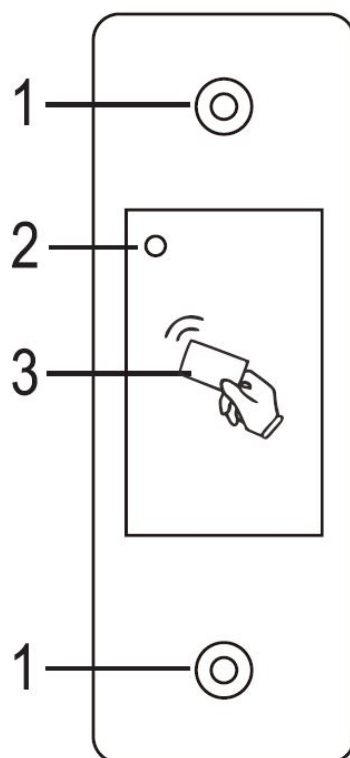
Safety information

Read the operating instructions carefully and observe in particular the safety instructions. If you do not follow the safety information and information on proper handling in these operating instructions, we will assume no liability for any resulting personal injury or damage to property. Such cases will invalidate the warranty/guarantee.

- This product is not a toy. Keep it out of the reach of children and pets.
- Protect the product from extreme temperatures, strong jolts, flammable gases, vapours and solvents.
- Handle the product carefully. Jolts, impacts or a fall even from a low height may damage the product. Do not place the product under any mechanical stress.
- Do not mount or connect the product when it is connected to a power supply.
- Never exceed the contact rating for the potential-free changeover contact specified in chapter "Technical data". Never switch the mains voltage, as this can cause life-threatening electric shock!
- Always observe the safety and operating instructions of any other devices which are connected to the product (e.g. door openers and alarm systems).
- If it is no longer possible to operate the product safely, stop using it and prevent unauthorized use. Safe operation of the device can no longer be guaranteed if it shows visible signs of damage, malfunctions, has been exposed to unfavorable storage conditions or significant transport loads.
- For installations in industrial facilities, follow the accident prevention regulations for electrical systems and equipment issued by the national safety organisation or the corresponding national authority.
- Do not leave packaging material lying around carelessly. It may become a dangerous toy for children!
- Maintenance, modifications and repairs must be carried out by a technician or a specialist repair centre.
- If you are not sure how to operate the product correctly, or if you have any questions that are not answered in these operating instructions, contact us or another specialist.

Connections and controls

1. Opening for wall mounting
2. LED
3. RFID sensor

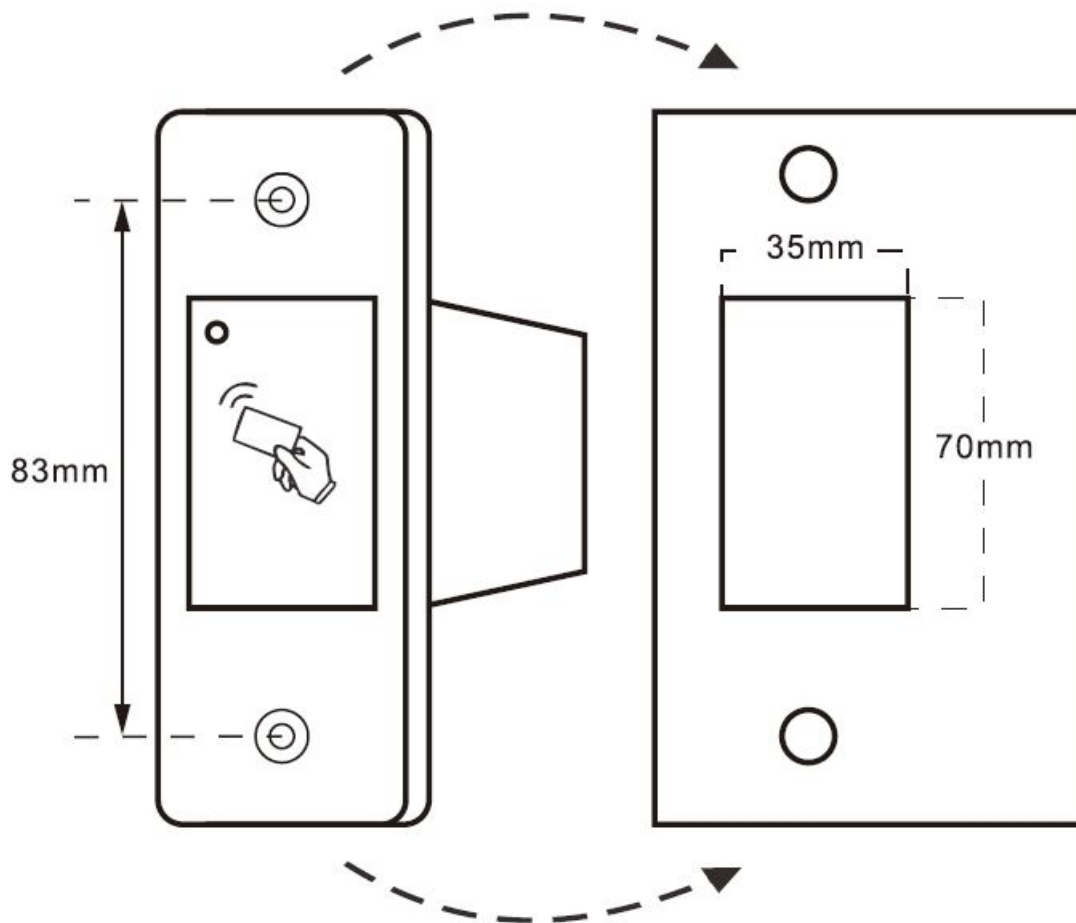


Connecting cable:

Colour	Inscription	Function
Red	12 – 18 V/DC	Operating voltage 12 – 18 V/DC
Black	GND	GND/ground
Yellow	OPEN	Door opener button
Green	NC	NC (normally closed) contact of relay
Brown	COM	COM (centre contact) contact of relay
White	NO	NO (normally open) contact of relay

Installation and connection

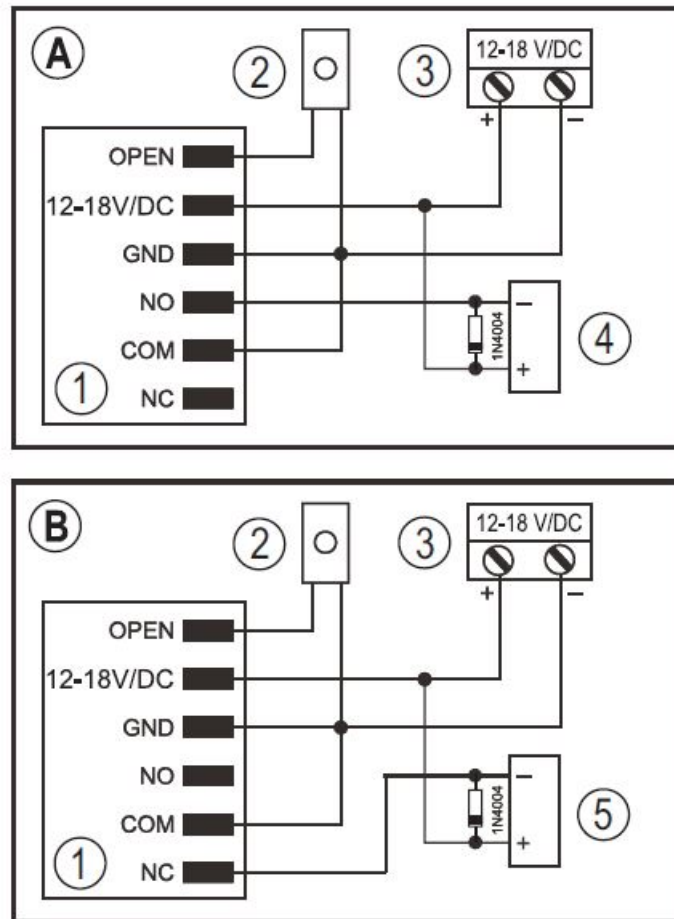
Use suitable screws and, if necessary, dowels to mount the mounting plate with the module on the wall (see figure on the right) depending on the type of wall. The included mounting frame can be pre-installed depending on the substrate and installation position, and the access system should then be screwed tight. Suitable screws and, if necessary, dowels should be used depending on the substrate. A hole for the connecting cable must be drilled before fastening.



Ensure that no cables or wires are damaged when drilling holes or tightening screws. Wiring should be carried out according to the following examples. Ensure that there is suitable insulation (e.g. heat shrink tubing). A protective diode is included for connecting a door opener. It protects the electronics from damage caused by voltage surges. Ensure the correct polarity, as shown in the following connection examples (when connected, the ring on the protective diode must face the positive pole/+).

Attention! Never switch the mains voltage via the potential-free changeover contact! There is a risk of fatal electric shock! Observe the permissible contact rating; see “Technical data” chapter. Use suitable cables with different colours. Note the colours and store this information together with these instructions. When connecting the cables, pay attention to the correct polarity (plus/+ and minus/-).

Connection to conventional voltage/power supply: When a conventional power supply unit should be used, observe the wiring diagram on the right.



- “Fail Secure” door opener: releases the locking latch only when its operating voltage is applied (common design for front doors).
- “Fail-safe” door opener: releases the locking latch only when the operating voltage is missing (uncommon design, e.g. used for escape route doors, which can be opened in the event of a power outage).
- Access system
- Door opener button
- Power adapter
- “Fail-Secure” door openers
- “Fail-Safe” door openers

The included diode must be connected correctly near the door opener to protect the access system from voltage surges.

Connecting to alarm system Observe the operating instructions for the alarm system used. The access system relay switches when a valid transponder is recognised. The alarm system can thus be enabled or disabled.

Operation Switch on the power supply after installation and connection. The access system LED lights up red. This indicates that the access system is in standby mode. You can now start programming; see next chapter.

Programming The included transponder is normally paired as a master transponder and can be used to pair/save or delete user transponders.

Pairing a new master transponder can be paired if the currently used master transponder is lost or defective. There can be only one master transponder for security reasons (if a lost master transponder “shows up”, it will no longer be recognised).

- Switch off the power supply and wait until the LED goes off.
- Press and hold down the door opener button and switch on the power supply. You will hear a beep (the LED briefly flashes red and green) and then the LED lights up red. Now release the door opener button. You will hear another beep and the LED lights up yellow.
- If you hear two beeps, you have waited too long. Switch off the power supply and start over.
- Now hold a transponder in front of the sensor: you will hear a beep and the LED lights up red. The new master transponder is saved.

Saving a user transponder

- Hold the master transponder once in front of the sensor. You will hear a beep and the LED lights up yellow. The pairing mode is enabled.
- Now pair a single user transponder or several user transponders one after another. You will hear a beep once every single user transponder is paired.
- If a newly paired transponder is used, you will hear three beeps and the LED flashes red. The same applies if no transponder is paired within 10 seconds; in this case, the pairing mode is disabled automatically and the LED lights up red.
- Hold the master transponder in front of the sensor. You will hear a beep and the LED lights up red. The pairing mode is disabled.

Deleting the user transponder

- Hold the master transponder twice in front of the sensor. Each time you hold it you will hear a beep and the LED lights up yellow. The delete mode is enabled.
- Hold the user transponder (or several user transponders one after another) you want to delete in front of the sensor. You will hear a beep once every single user transponder is deleted.
- If a newly deleted transponder is used, you will hear three beeps and the LED flashes red. The same applies if no transponder is deleted within 10 seconds; in this case, the delete mode is disabled automatically and the LED lights up red.
- Hold the master transponder in front of the sensor. You will hear a beep and the LED lights up red. The delete mode is disabled.

Setting relay switching time

By default, the relay is activated for 5 seconds when a paired user transponder is read. This time can be adjusted from 1 to 99 seconds and toggle mode (relay switches upon each reading) can be selected.

- Switch off the power supply and wait until the LED goes off.
- Press and hold down the door opener button and switch on the power supply. As you hold down the button, you will hear a beep. You should release the door opener button after two beeps. You will then hear a long beep and the LED lights up yellow; the relay setting mode is enabled.
- If you do not perform any further actions within 10 seconds, you will hear three beeps and the LED flashes red. The relay setting mode is disabled automatically.

Switching to toggle mode

- Keep the door opener button pressed until you hear three beeps. Now release the door opener button. The relay setting mode is now disabled.
- When a paired user transponder is read, the relay switches and remains in current switch position until another user transponder is read.

Setting the relay switching time

- Keep the door opener button pressed until you hear three beeps. As you hold down the button, you will hear a beep every second. The relay is activated for one second with a beep (time can be adjusted from 1 to 99 seconds).
- Release the door opener button when the required time has been reached (for example, if you release it after 8 beeps, the relay will be activated for 8 seconds when a paired user transponder is read). The relay setting mode is now disabled.

Resetting to factory defaults

- Switch off the power supply and wait until the LED goes off.
- Press and hold down the door opener button and switch on the power supply. As you hold down the button, you will hear a beep. After a while, you will hear two beeps followed by another three beeps. Now release the door opener button: the LED lights up yellow.
- Now press and hold down the door opener button for 10 seconds until you hear a long beep: the LED briefly lights up green and red. The access system is now reset to factory defaults. All user transponders and the master transponder are deleted and the relay switching time is reset to 5 seconds. You must first pair a new master transponder before you can save user transponders.

Declaration of Conformity (DOC)

- Conrad Electronic SE, Klaus-Conrad-Straße 1, D-92240 Hirschau, hereby declares that this product conforms to Directive 2014/53/EU.
- Click on the following link to read the full text of the EU Declaration of Conformity:
www.conrad.com/downloads Enter the product's order number in the search field; you can then download the EU Declaration of Conformity in the available languages.

Specifications

- **Operating voltage** 12 – 18 V/DC
- **Power consumption Standby** <25 mA; max. 100 mA
- **Transmission frequency range** 124.6 – 125.4 kHz Transmission power 11.62 dBm
- **Max. reading distance** approx. 2 cm
- **Data retention in case of power failure** yes
- **Suitable transponders** Commercially available EM transponders for frequency 125 kHz
- **Output** Potential-free single-pole changeover contact (relay) Max. contact rating 24 V/DC, 2 A Adjustable

switching duration (1 – 99 seconds or toggle mode; 5 seconds by default)

- **Transponder storage** 3000
- **Mounting location** Indoors/outdoors
- **Protection class** P66
- **Ambient conditions** Temperature -40 °C to +60 °C
- **Dimensions** 115 x 40 x 25 mm (H x W x D)
- **Weight** approx. 114 g

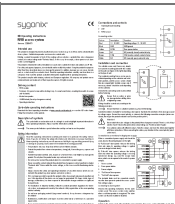

Care and cleaning

Never use aggressive detergents, rubbing alcohol or other chemical solutions, as these may damage the casing or cause the product to malfunction. Use a dry, lint-free cloth to clean the product.

Disposal

Electronic devices are recyclable waste and must not be placed in household waste. At the end of its service life, dispose of the product in accordance with applicable regulatory guidelines. You thus fulfil your statutory obligations and contribute to environmental protection.

Documents / Resources

	SYGONIX 2380475 Rfid Access System [pdf] Instruction Manual 2380475, Rfid Access System
	Sygonix 2380475 RFID Access System [pdf] Instruction Manual 2380475, RFID Access System