



# MPXR92MWSBE

USER/INSTALLER MANUAL







# 00. CONTENT

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# 01. SAFETY INSTRUCTIONS

## ATTENTION:

	This product is certified in accordance with European Community (EC) safety standards.
	This product complies with Directive 2011/65/EU of the European Parliament and of the Council, of 8 June 2011, on the restriction of the use of certain hazardous substances in electrical and electronic equipment and with Delegated Directive (EU) 2015/863 from Commission.
	(Aplicável em países com sistemas de reciclagem). Esta marcação indica que o produto e acessórios eletrónicos (ex. carregador, cabo USB, material eletrónico, comandos, etc.) não devem ser descartados como outros resíduos domésticos, no final da sua vida útil. Para evitar possíveis danos ao ambiente ou à saúde humana, decorrentes da eliminação descontrolada de resíduos, separe estes itens de outros tipos de resíduos e recicle-os de forma responsável, para promover a reutilização sustentável dos recursos materiais. Os utilizadores domésticos devem entrar em contacto com o revendedor onde adquiriram este produto ou com a Agência do Ambiente Nacional, para obter detalhes sobre onde e como podem levar esses itens para reciclagem ambientalmente segura. Os utilizadores empresariais devem contactar o seu fornecedor e verificar os termos e condições do contrato de compra. Este produto e os seus acessórios eletrónicos não devem ser misturados com outros resíduos comerciais para lixo.
	This marking indicates that the product and electronic accessories (eg. charger, USB cable, electronic material, controls, etc.) are susceptible to electric shock by direct or indirect contact with electricity. Be cautious when handling the product and observe all safety procedures in this manual.

# 01. SAFETY INSTRUCTIONS

## GENERAL WARNINGS

- This manual contains very important safety and usage information. very important. Read all instructions carefully before beginning the installation/usage procedures and keep this manual in a safe place that it can be consulted whenever necessary.
- This product is intended for use only as described in this manual. Any other enforcement or operation that is not mentioned is expressly prohibited, as it may damage the product and put people at risk causing serious injuries.
- This manual is intended firstly for specialized technicians, and does not invalidate the user's responsibility to read the "User Norms" section in order to ensure the correct functioning of the product.
- The installation and repair of this product may be done by qualified and specialized technicians, to assure every procedure are carried out in accordance with applicable rules and norms. Nonprofessional and inexperienced users are expressly prohibited of taking any action, unless explicitly requested by specialized technicians to do so.
- Installations must be frequently inspected for unbalance and the wear signals of the cables, springs, hinges, wheels, supports and other mechanical assembly parts.
- Do not use the product if it is necessary repair or adjustment is required.
- When performing maintenance, cleaning and replacement of parts, the product must be disconnected from power supply. Also including any operation that requires opening the product cover.
- The use, cleaning and maintenance of this product may be carried out by any persons aged eight years old and over and persons whose physical, sensorial or mental capacities are lower, or by persons without any knowledge of the product, provided that these are supervision and instructions given by persons with experienced in terms of usage of the product in a safe manner and who understands the risks and dangers involved.
- Children shouldn't play with the product or opening devices to avoid the motorized door or gate from being triggered involuntarily.

## WARNINGS FOR TECHNICIANS

- Before beginning the installation procedures, make sure that you have all the devices and materials necessary to complete the installation of the product.
- You should note your Protection Index (IP) and operating temperature to ensure that is suitable for the installation site.
- Provide the manual of the product to the user and let them know how to handle it in an emergency.
- If the automatism is installed on a gate with a pedestrian door, a door locking mechanism must be installed while the gate is in motion.
- Do not install the product "upside down" or supported by elements do not support its weight. If necessary, add brackets at strategic points to ensure the safety of the automatism.
- Do not install the product in explosive site.
- Safety devices must protect the possible crushing, cutting, transport and danger areas of the motorized door or gate.
- Verify that the elements to be automated (gates, door, windows, blinds, etc.) are in perfect function, aligned and level. Also verify if the necessary mechanical stops are in the appropriate places.
- The central must be installed on a safe place of any fluid (rain, moisture, etc.), dust and pests.
- You must route the various electrical cables through protective tubes, to protect them against mechanical exertions, essentially on the power supply cable. Please note that all the cables must enter the central from the bottom.
- If the automatism is to be installed at a height of more than 2,5m from the ground or other level of access, the minimum safety and health requirements for the use of work equipment workers at the work of Directive 2009/104/CE of European Parliament and of the Council of 16 September 2009.
- Attach the permanent label for the manual release as close as possible to the release mechanism.
- Disconnect means, such as a switch or circuit breaker on the electrical

# 01. SAFETY INSTRUCTIONS

panel, must be provided on the product's fixed power supply leads in accordance with the installation rules.

- If the product to be installed requires power supply of 230Vac or 110Vac, ensure that connection is to an electrical panel with ground connection.
- The product is only powered by low voltage safety with central (only at 24V motors)

## WARNINGS FOR USERS

- Keep this manual in a safe place to be consulted whenever necessary.
- If the product has contact with fluids without being prepared, it must immediately disconnect from the power supply to avoid short circuits, and consult a specialized technician.
- Ensure that technician has provided you the product manual and informed you how to handle the product in an emergency.
- If the system requires any repair or modification, unlock the automatism, turn off the power and do not use it until all safety conditions have been met.
- In the event of tripping of circuits breakers or fuse failure, locate the malfunction and solve it before resetting the circuit breaker or replacing the fuse. If the malfunction is not repairable by consult this manual, contact a technician.
- Keep the operation area of the motorized gate free while the gate in in motion, and do not create strength to the gate movement.
- Do not perform any operation on mechanical elements or hinges if the product is in motion.

## RESPONSABILITY

- Supplier disclaims any liability if:
  - Product failure or deformation result from improper installation use or maintenance!
  - Safety norms are not followed in the installation, use and maintenance of the product.
  - Instructions in this manual are not followed.
  - Damaged is caused by unauthorized modifications
  - In these cases, the warranty is voided.

### **MOTORLINE ELECTROCELOS SA.**

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## SYMBOLS LEGEND:



• Important safety notices



• Useful information



• Programming information



• Potentiometer information



• Connectors information



• Buttons information

## 02. THE PRODUCT

### PRODUCT DESCRIPTION

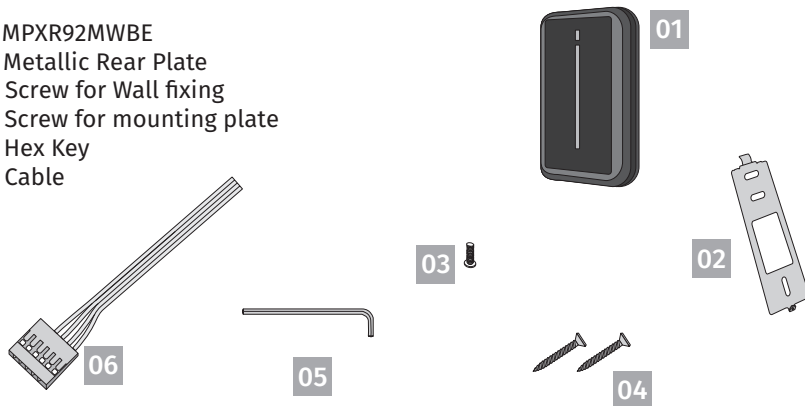
Backlit reader for external use which is part of the control and management of access to a given location.

### TECHNICAL CHARACTERISTICS

• Power Supply	12V DC 1A
• Current	300mA (max)
• Insulation	IP65
• Communication	RS485
• Technologies	Bluetooth, NFC, Mifare Card
• Card Reading Format	Mifare (13.56 MHz)
• Reading Reach	3-5 cm
• ID Setup	DIP Switch
• Operating temperature	-25°C to 55°C
• Operating Humidity	20% ~ 80%
• Dimension	77x120x22mm (WxHxD)

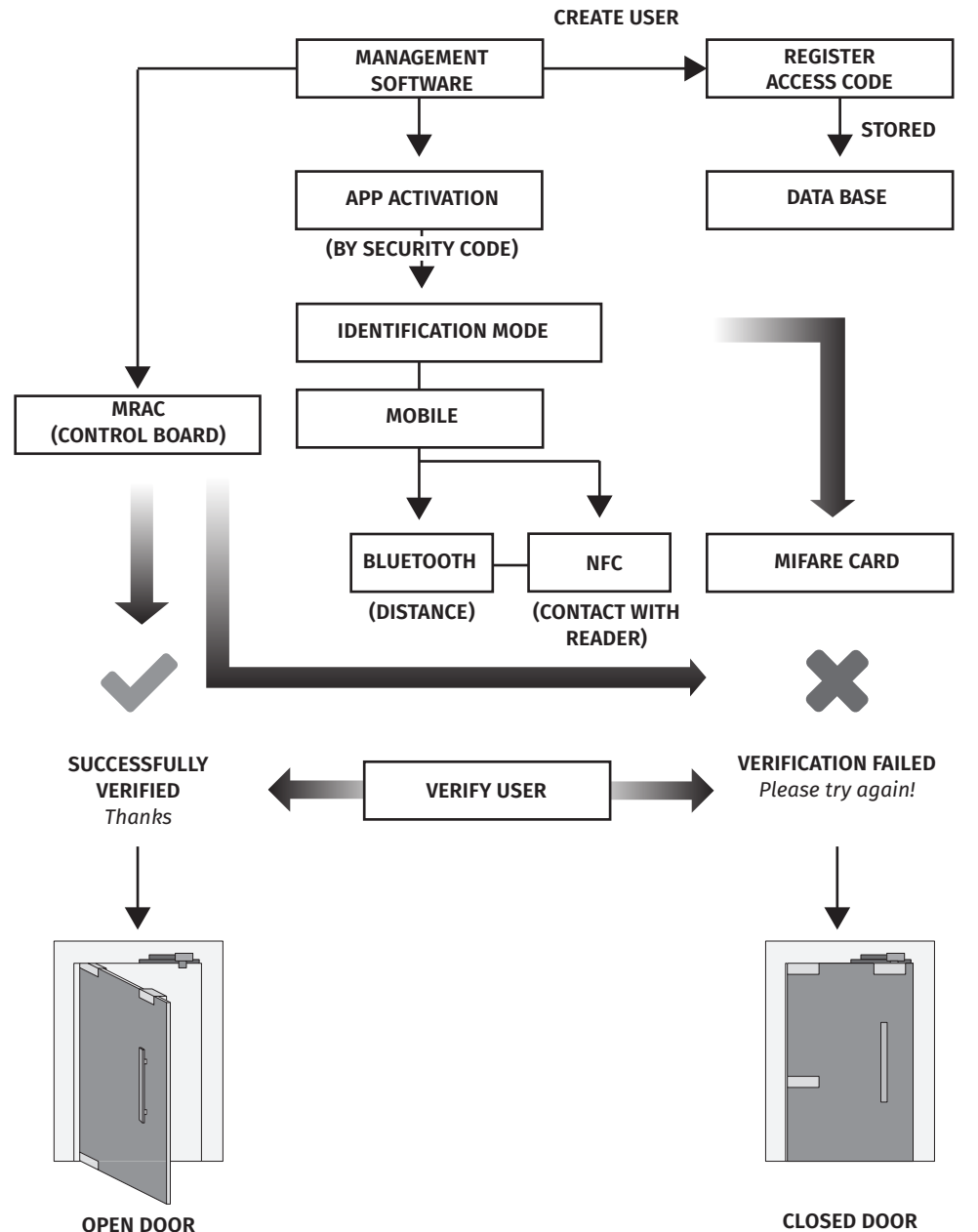
### BASIC CONTENT

- 01 • 01 MPXR92MWBE
- 02 • 01 Metallic Rear Plate
- 03 • 02 Screw for Wall fixing
- 04 • 01 Screw for mounting plate
- 05 • 01 Hex Key
- 06 • 01 Cable



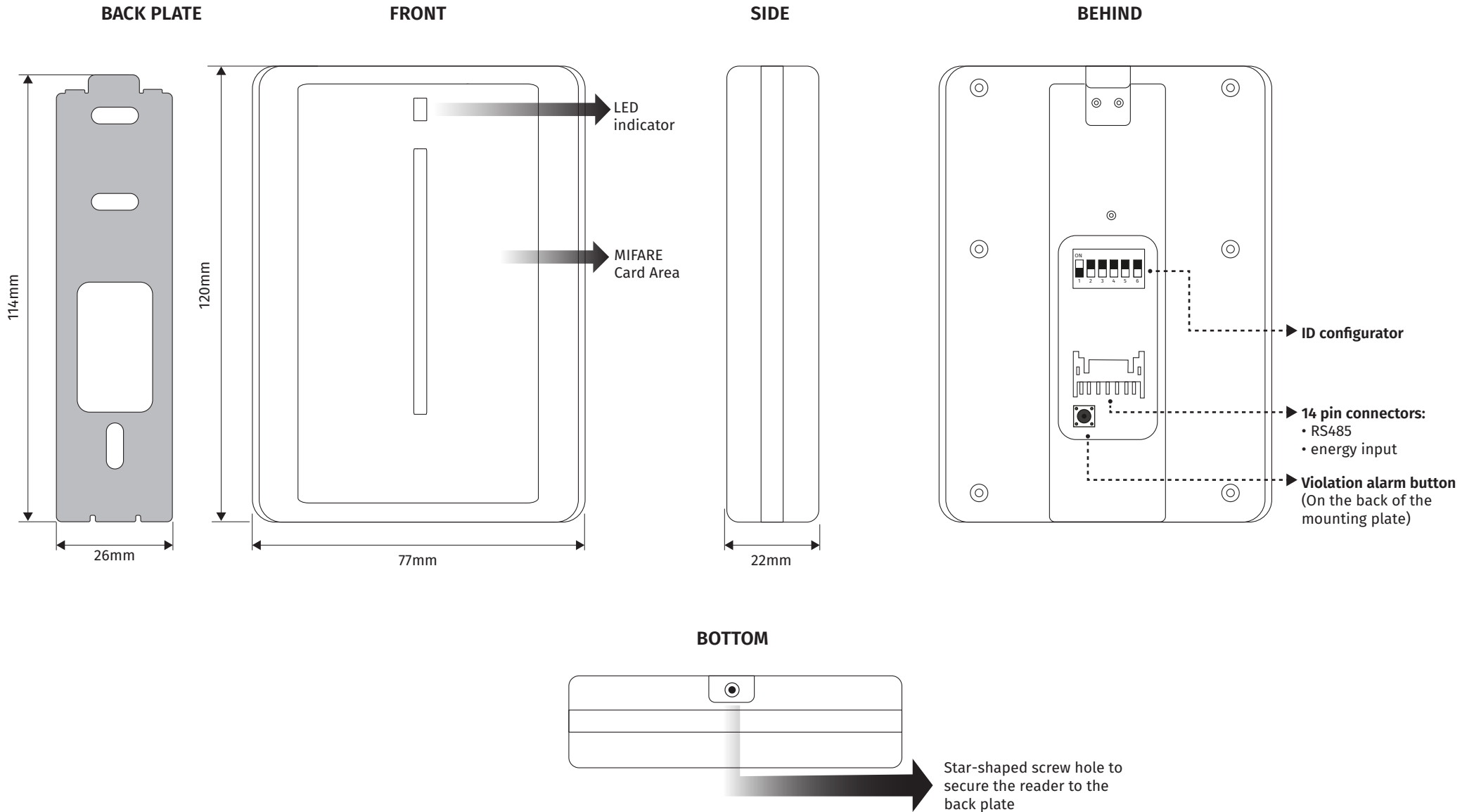
## 02. THE PRODUCT

### OPERATING SCHEME



## 02. THE PRODUCT

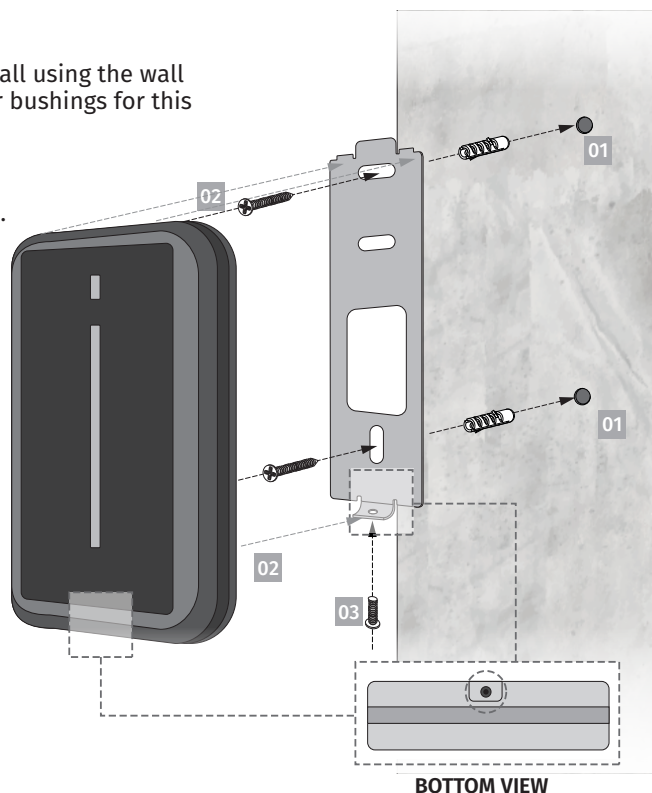
### DIMENSIONS AND DIAGRAM OF PRODUCT CONNECTORS



## 03. INSTALAÇÃO

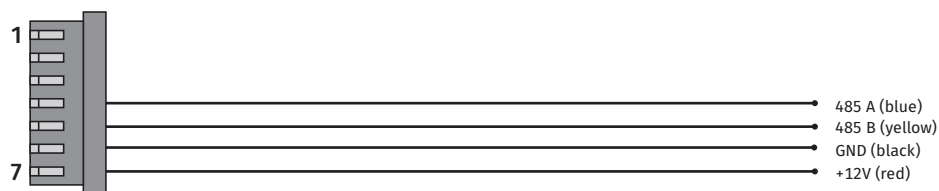
### WALL MOUNT

- 1 Fix the back plate to the wall using the wall mount screws. (Use proper bushings for this purpose)
- 2 Mount the MPXR92MWSBE terminal on the back plate.
- 3 Attach the MPXR92MWSBE and the back plate using a star-shaped screw.



### CABLE DESCRIPTION

- RS485 OUTPUT AND POWER INPUT



## 04. DIP SWITCH

### DIP SWITCH CONFIGURATION

For the control board to be able to identify the task of each of the readers interconnected in an access control system, it is necessary that each of these devices has a unique identification ID. This ID is crucial to identify the task that each device performs and which port/access where it is installed.

The definition is made through the dip switch board on the back of each reader, according to the following table:

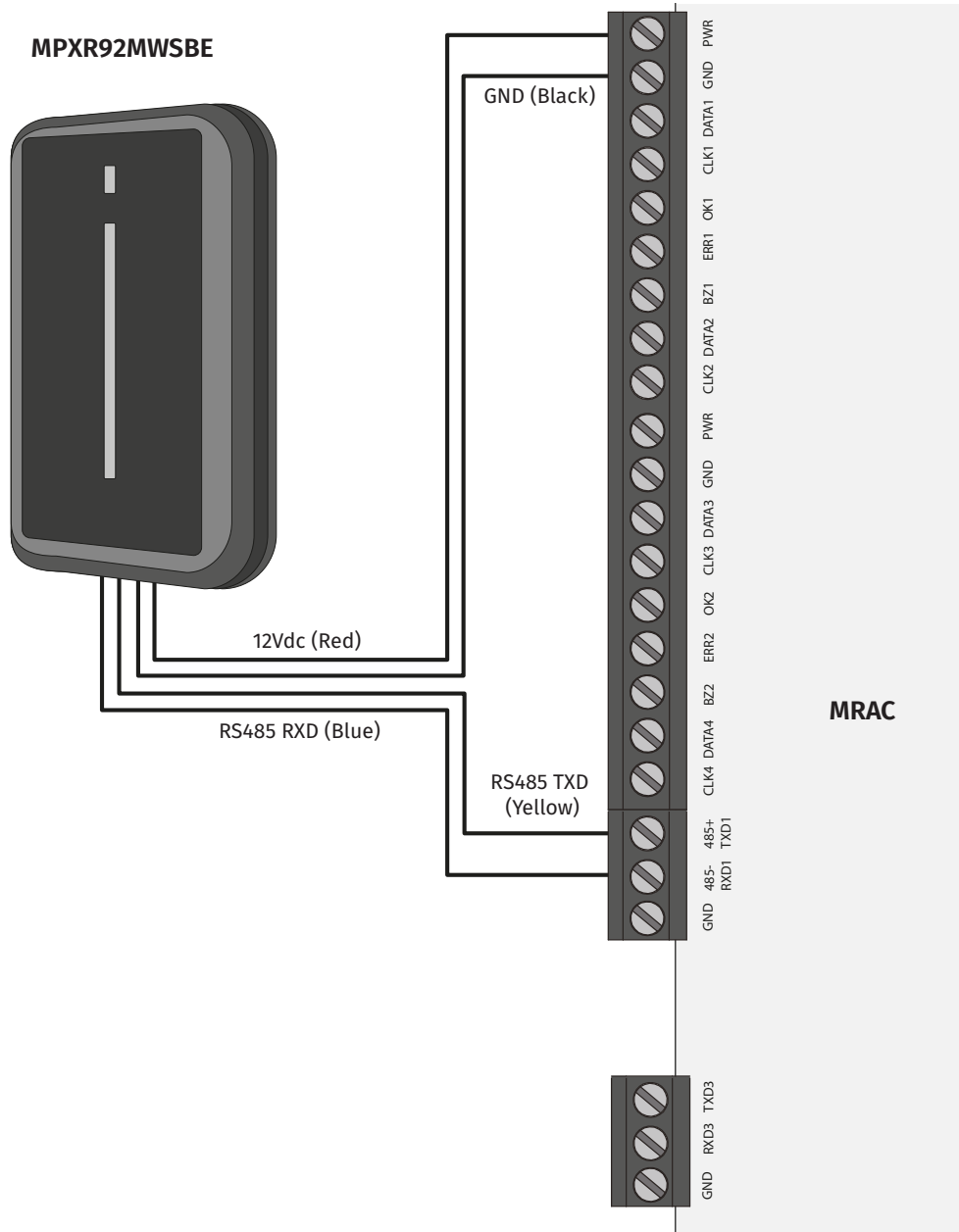
ID	Dip switch	Door	Function
No ID	ON 1 2 3 4 5 6	-	-
1	ON 1 2 3 4 5 6	Door 1	Entry
2	ON 1 2 3 4 5 6		Exit
3	ON 1 2 3 4 5 6	Door 2	Entry
4	ON 1 2 3 4 5 6		Exit
5	ON 1 2 3 4 5 6	Door 3	Entry
6	ON 1 2 3 4 5 6		Exit
7	ON 1 2 3 4 5 6	Door 4	Entry
8	ON 1 2 3 4 5 6		Exit



• If you connect two or more devices with the same ID to a control board, it will create a communication conflict and none will work properly.

# 05. CONNECTION SCHEME

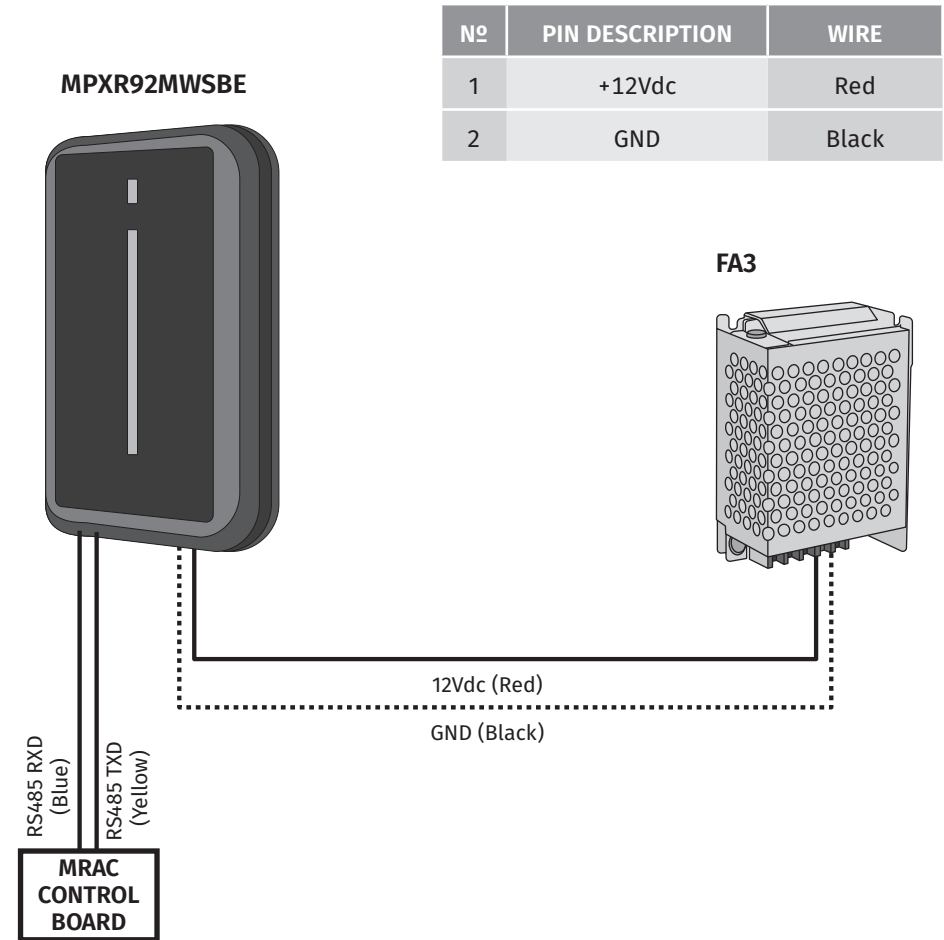
## CONNECTION TO MRAC CONTROL BOARD



7A EN

# 05. CONNECTION SCHEME

## EXTERNAL POWER CONNECTION



### Recommended power supply

- 12Vdc  $\pm$ 10%, at least 500mA;
- Comply with the IEC/EN 60950-1 standard;
- To share power with other devices, use a power supply with higher current ratings.

EN 7B

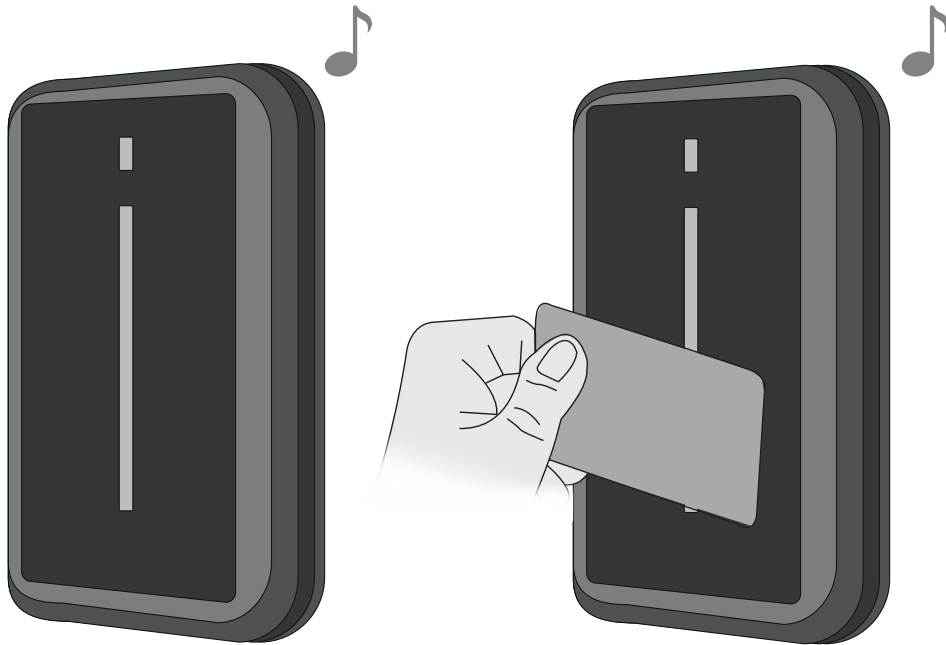


## 06. TESTE DE COMPONENTES

### DEVICE TEST

To avoid touch sensor self-detection interference, please do not touch the sensor when turning on the device's power.

1. When the power is on, the player will flash the green LED and you will hear the beep sound simultaneously.
2. Place the supplied card near the reader. The reader should beep simultaneously.



## 07. TROUBLESHOOTING

### INSTRUCTIONS FOR CONSUMERS / SPECIALIZED TECHNICIANS

PROBLEM	SOLUTION
<b>The reader's backlight does not turn on.</b>	Check if the power supply and RS485 connection are connected correctly.
<b>I don't hear the beep when reading the card.</b>	Please contact our technical support department.