

dormakaba Deutschland GmbH						
DORMA Platz 1						
D-58256 Ennepetal						
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# RMZ XEA

# 1 About this manual

## 1.1 Information about the manual

This instruction is part of the product. The instruction comprises important instructions for safe operation. Therefore, the instruction must be carefully read before using the product. This instruction must be kept during the service life of the product and must be passed on with the product. This instruction describes the installation, startup, maintenance and disassembly of the smoke detection system RMZ XEA. The text of the instruction is supported by figures in a separate figure part. The chapter numbers in the text can be found again top left in the figures in the figure part. There is not always a figure in the figure part to support a chapter in the text.

## 1.2 Target groups

The installation, startup, maintenance and disassembly must only be carried out by skilled staff which has been authorized by dormakaba. The acceptance test must only be carried out by skilled staff that is certified for this by dormakaba.

## 1.3 Provided documents

- Installation manual
- Connection diagrams RMZ/RM-ED
- Data sheet about the use of arrest systems
- General building approval

## 1.4 Symbols and abbreviations used

### 1.4.1 Safety instructions



#### DANGER

This signal word indicates a situation of immediate risk, which will lead to death or serious injury if not averted.



#### CAUTION

This signal word indicates a situation of potential risk, which could lead to minor or slight injury if not averted.



#### TIPS AND RECOMMENDATIONS

This signal word indicates useful information for efficient and trouble-free operation.

### 1.4.2 Further labeling

1. 2. Step-by-step graphics

1 2 Position numbers of parts

## 1.5 Glossary

EMF	Electromechanical locking device
HT	Manual release button
RMZ	Smoke detection panel
TS	Door closer

# 2 Safety



#### DANGER

##### Danger to life through electric current

Works on electrical systems must only be carried out by skilled electricians.

- Before starting work on electrical systems and equipment, establish a zero-potential condition and ensure this condition while carrying out the work.

## 2.1 Intended use

The smoke detection system RMZ must only be used as lintel switch and must only be operated when mounted to the wall in a secure manner.

## 2.2 Foreseeable misuse

Do not control any further alarm systems with the fire detector of the catching device, e.g. transmission device for fire alarms.

## 2.3 Limitation of liability

The manufacturer does not assume liability for damages in the following events:

- Nonobservance of this instruction.
- A deviating application of the intended use.
- The assignment of insufficiently skilled staff.
- Unauthorized modifications.
- Technical alterations.
- The use of spare parts which are not authorized.

## 2.4 Prerequisites for the operation of catching devices

If the lower surface of the cover on one or both sides of the door is more than 1 m above the lintel bottom edge, an additional cover smoke detector must be mounted on each side of the door and must be connected with the RMZ. Measure the distance up to the smoke-impermeable ceiling. A separate verification of suitability is required for the respective fire / smoke protection door.

Do not control any further alarm systems with the fire detector of the catching device, e.g. transmission device for fire alarms.

- ① RMZ
- ② EMF
- ③ Cover smoke detector
- ④ Manual release button for catching devices (optional). The manual release button must not be covered by the locked door. When using free-swing door closer or wall magnetic clamps, the installation of a manual release button is required.

## 2.5 Requirements of the electrical installation by the customer

A circuit breaker B-10A/B-16A must be present in the supply circuit. The circuit breaker simultaneously serves as disconnect device to switch the RMZ to zero-potential. The transverse section of the mains supply line must only be a max. 3 x 1.5 mm<sup>2</sup> (NYM). For tension relief purposes, the mains power supply of the RMZ must be mounted adequately.

# 3 Product description

The RMZ XEA comprises the following components:

- Smoke detection panel

The RMZ is intended for the lintel mounting.

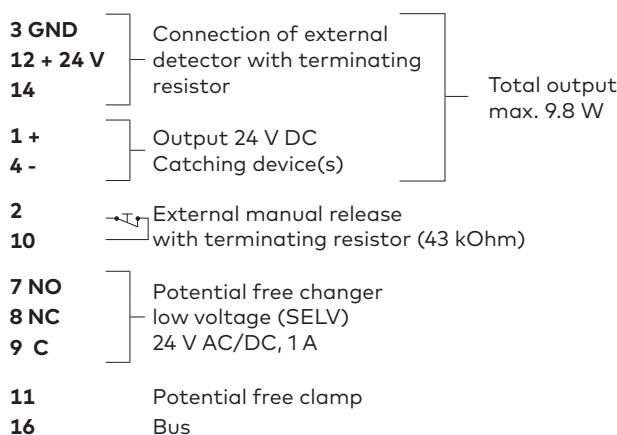
## 3.1 RMZ

The RMZ supplies the connected electromechanical locking device with 24-V-DC voltage. In the event of an alarm or a power cut, the RMZ switches to zero-potential (tripping) and the door closes. The new arming takes place either through a manual or automatic reset. Optional cover smoke detector RM and manual release buttons HT may be connected to the RMZ. 2 LEDs show the current operating status. The configuration of the RMZ happens through the DIP switch.

### 3.1.1 DIP switch on the RMZ

The functions of the RMZ are set via the DIP switch. Changes are only accepted after pressing the reset button (settings see chapter 5.1).

## 3.1.2 Clamp terminal assignment of the RMZ



## 3.1.3 Display of the operating status of the RMZ

### Functions of the LEDs

LED on — LED off —

#### Operating display LED 1 (green/red)

Operation: green —————

Alarm smoke detector: red —————

Alarm manual release button: red — — — — —

#### Service display LED 2 (yellow)

Maintenance due: flashing — — — — —

Soiling: flashing — — — — —

Disturbance: duration —————

Disturbance: flashing — — — — —

wrong wiring to the cover smoke detector/manual release button

## 3.2 Technical data

### 3.2.1 RMZ

Input:	230 V AC +10 %/-15 % 120 mA/28 VA/50 Hz
Output:	24 V DC/460 mA/11 W
Degree of protection:	IP 30
Protection category:	II
Smoke switch:	24 V DC/50 mA
Temperature:	-20 °C/+40 °C
Rel. Humidity:	max. 93 % without condensation

## 4 Installation


### 4.1 Prepare mounting of RMZ

1. Position the RMZ at least 10 mm above the door opening. The vertical distance above the lintel bottom edge must only be a maximum of 100 mm.
2. Mark and drill the fixture points and cable bushing for the 230-V-supply, catching device, cover detector and manual switch with the help of the template.
3. Lay the appropriate cables.

### 4.2 Mount the RMZ

1. Break off a recess for the 230-V-AC power supply.
2. Insert all cables into the intended openings.
3. Screw the RMZ tight.

### 4.3 Establish electrical connections

1. Clamp the connection cables EMF/EM to the RMZ (RMZ, clamp 1 and 4).
2. Connect the 230-V-AC-connection cable. For maintaining the protection category II  (protective insulation), lay the 230-V-AC supply double insulated up to the connecting terminal.
3. Ensure the tension relief of the mains power supply of the RMZ.  
The protective earth must not be used electronically. Connect the provided protective earth to the support terminal (PE).
4. Close the touch protection.
5. Screw the touch protection tightly.

#### Connect optional cover smoke detectors and/or manual release buttons

1. Connect the cover smoke detector and/or manual release buttons to the RMZ according to the enclosed connection diagrams.
2. Follow the terminating resistors (43 kOhm)!

## 5 Start up

### 5.1 Set the DIP switch

1. Put the DIP switches in the appropriate position.
  - 1 OFF = automatic reset (delivery state)  
ON = manual reset  
Stick the provided label onto the cover with this function type
  - 2 OFF = 1-radial operation (line)  
ON = 2-radial operation (star)
  - 3 OFF = without optional cover smoke detector  
ON = with optional cover smoke detector
  - 4 OFF = without optional manual switch  
ON = with optional manual release switch
2. Press the reset button.

### 5.2 Laying the lines

1. Remove the red protection cover from the smoke detector unit.
2. Turn on the on-site power supply (230 V AC).
  - The operation display flashes green

### 5.3 Mount the paneling

1. Attach the end caps.
2. Clip on the RMZ cladding.

### 5.4 Test the function of the RMZ



#### CAUTION

##### Risk of eye and respiratory injury

- Follow the application and safety instructions on the test gas and the safety data sheet.

1. Open the door and lock it.
2. Spray the test gas on the smoke detector according to the manufacturers' instructions.
  - The operation display switches to alarm (red).
  - The door is closed.

#### During a manual reset:

When the test gas is evaporated, press the reset button to activate the catching device again.

#### During an automatic reset:

The catching device will be activated again as soon as the test gas is evaporated.

The door leaf may be locked after 30 seconds after releasing the catching device.

## 6 Closing the installation

If further structural work is carried out, protect the smoke detector against dust.

1. Switch the system to zero-potential.
2. Fit the provided dust cover.
3. Before the final start up, remove the dust cover and carry out a further functional check according to chapter 5.4.

### 6.1 Acceptance test

After installation an acceptance test is to be carried out according to the test book for catching devices. The acceptance test must only be carried out by skilled staff that is certified for this by dormakaba. Follow the details from the data sheet about the use of catching devices. The acceptance test must be documented in the test book for catching devices.

## 7 Maintenance

The performance of the maintenance must only be carried out by skilled personnel that is authorized by dormakaba.

Follow the details from the data sheet about the use of catching devices.



#### TIPS AND RECOMMENDATIONS

Dust deposits in the smoke detector may lead to false alarms.

- Where appropriate, shorten the required maintenance intervals when using in rooms with heavy exposure to dust.

The smoke switch board must be exchanged every 8 years according to DIN 14677. Achievement of the replacement time is continuously shown by the illuminating diode LED 2.

## 8 Maintenance by dormkaba

A regular maintenance of your system will pay off: weak spots are detected and eliminated early, the service life will be increased.

dormakaba and its authorized partners offers a premium maintenance service for automatic doors and catching devices, whereby the official seal of approval provides the operators of the building with reliable safety. If not all door systems are properly tested, the building operator will be liable for property damage and physical injuries in case of an accident. Irrespective of safety aspects, a regular maintenance makes also sense from an economic point of view. This allows you to detect and eliminate possible

damage or wear early on. The risk of unforeseeable costs due to, for example, high repair costs can be minimized – and we will help you keeping an eye on your budget. The goal is always to increase the service life of your door systems.

dormakaba will assume the complete organization and execution of the maintenance. Your benefits: all installations will be tested by trained experts in regular intervals – even systems from other manufacturers. The building operator does not have to take care of anything; legal requirements will be met in a reliable manner.

A maintenance contract for the door will ensure the tested reliability according to a premium standard. We want to convince you as well – let us prepare you a non-binding and free quote for a maintenance contract. For more information on this topic and many others on the dormakaba service, please go to our homepage at [www.dormakaba.com](http://www.dormakaba.com).

## 9 Dismounting, recycling and disposal

Dismantling is the same procedure in reverse and must be carried out by qualified personnel.



#### DANGER

##### Danger to life through electric current

Works on electrical systems must only be carried out by skilled electricians.

- Before starting work on electrical systems and equipment, establish a zero-potential condition and ensure this condition while carrying out the work.

The product must be disposed of environmentally sound. Electro-technical parts and batteries must not be disposed of as household waste. Dispose of electro-technical parts and batteries in the arranged acceptance and collection points.





