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G-EMR 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 slide rail system GSR-EMR 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. The operation of the slide rail system may be carried out by any person who is mentally and physically able.

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.



ATTENTION

This signal word indicates a situation of potential risk, which could lead to damage to property or the environment 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



The illustration shows the mounting DIN-L on the hinge side.

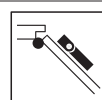
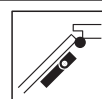


Illustration shows mounting DIN-L on the opposite hinge side.



The illustration shows the mounting DIN-R on the hinge side.

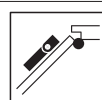


Illustration shows mounting DIN-R on the opposite hinge side.

1.4.3 Tool symbols



Allen wrench, e.g. wrench size 3

1.5 Glossary

EMF	Electromechanical locking device
HT	Manual release button
RMZ	Smoke detection panel
RS	Smoke switch
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 catching device is used to keep open fire and smoke protection closures. Fire and smoke protection closures must meet the building regulation requirements "self-locking". The electromechanical locking device is no substitution for a door stop. The locking device is released manually or via an external RMZ.

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

The use of catching devices is subject to special regulations by reason of official admission standards. These regulations refer in particular to the inspection, the continuing surveillance and the maintenance. Follow the details from the data sheet about the use 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.

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 mm² (NYM).

3 Product description

The G-EMR XEA comprises the following components:

- Slide rail systems
- Built-in electromechanical locking device
- Smoke detection panel

The G-EMR XEA is intended for the mounting on the hinge side or the opposite hinge side. The G-EMR XEA is suitable for DIN-L and DIN-R doors.

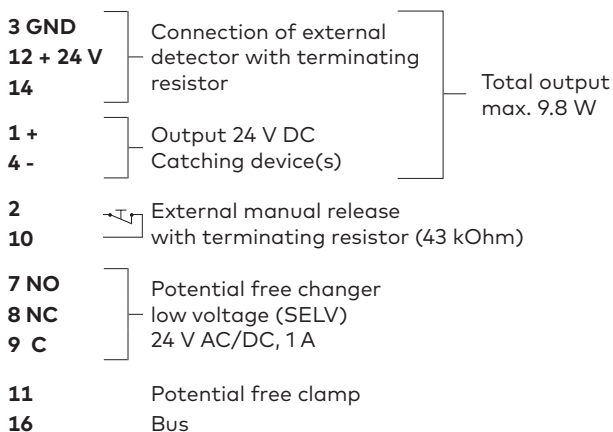
3.1 RMZ

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 EMF

The EMF is an electromechanical locking mechanism with adjustable release force, which enables locking the door without spring back. After a cut-off of power supply, the locking device disengages and the door will be closed securely through the door closer.

3.3 Technical data

3.3.1 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

3.3.2 EMF

Operating voltage:	24 V DC
Power consumption:	1.4 W
Duty cycle:	100 % ED
Release torque:	approx. 25 – 65 Nm at 90° opening angle (dependent on the set closing force on the closer)
Door opening angle:	max. 140°

4 Installation

The mounting of the slide rail system takes place directly on the base of the door lintel or optionally with an additional mounting plate (extras).

4.1 Prepare the mounting of the slide rail

The slide rail can be mounted in two different options:
Option **A** = Mounting on the hinge side DIN-L or on the opposite hinge side DIN-R.

Option **B** = Mounting on the hinge side DIN-R or the opposite hinge side DIN-L.

1. Prepare the additional cover smoke detectors and/or manual release buttons if necessary.
2. Mark the fixing points for the closer and the slide rails according to the hole pattern **A** or **B**.
3. Drill the holes.
4. Drill the holes for the connecting cables \varnothing 12 mm and for the connection to required cover smoke detectors and manual release button \varnothing 10 mm.
5. Lay the lines.

4.2 Mount the base

1. Insert the connection cables to the appropriate holes in the base.
2. Mount the base.

4.3 Mount the slide rail and RMZ

Mounting option A

1. Insert all cables into the intended openings.
2. Screw the RMZ onto the base.
3. Screw the slide rail onto the base.
4. Insert the connection cables of the EMF into the RMZ.


Mounting option B

1. Turn the slide rail by 180° so that the end cap connector is on the right side.
2. Remove the end cap connector.
3. Release the connection cable from the slide slip surface and lead it through the slip surface to the front.
4. Clip the end cap connector on.
5. Insert all cables into the intended openings.
6. Screw the RMZ onto the base.
7. Screw the slide rail onto the base.
8. Insert the connection cables of the EMF into the RMZ.

4.4 Mount the door closer

1. Mount the door closer and lever to the door closer according to the enclosed instructions for the door leaf.
2. Adjust the door closer.

4.5 Establish electrical connections

1. 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.
2. 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).
3. Close the touch protection.
4. Screw the touch protection tightly.

Connect optional cover smoke detectors and/or manual release buttons

5. Connect the cover smoke detector and/or manual release buttons to the RMZ according to the enclosed connection diagrams.
6. Take care with 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 Set the fixture point



ATTENTION

Risk of cable damage

While setting the fixture points cables might be damaged.

- Pay attention not to jam the connecting cables.

1. Open the fixed leaf until it clicks.
2. Unbolt the screws of the locking unit(s).
3. Open the door leaves to the desired hold open bracket.
If the EMF is pushed to the end of the slide rail, the cable clips must be removed.
4. Unbolt the screws of the locking unit(s).
5. Place the door stop into the position of the fixture points selected.

5.4 Set the release force



ATTENTION

Risk of damage to the catching device

Setting a release force too high may result in damage to the door hinges and the fastening elements of the door closing system.

- Set the release force depending on the door width and the selected size of the closing contact.
- According to the DIN EN 1155 the release force must not be less than 40 Nm at a door opening angle of 90° and not more than 120 Nm.

1. Set the release force without a tool.
2. Control the release force.

5.5 Mount the paneling

1. Attach the end caps.
2. Break off the marked gaps on the panelings. Pay attention that the correct side is broken off.
3. Mount the paneling of the glide rail.

5.6 Check the EMF

The EMF can be released manually or by cutting of the power supply.

5.6.1 Release EMF manually

1. Open the door leaf and lock it.
2. Pull on the door leaf.
 - ▶ The door leaf is released and closes.

5.6.2 Delete EMF electronically

1. Open the door leaf and lock it.
2. Cut off the power supply (i.e. operation of the manual release button).
 - ▶ The door leaf is released and closes.

5.7 Check the function of the catching device via 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 has 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 5.6.

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 Operating

7.1 Open and lock door

1. Open door leaves to the fixture point.
 - ▶ The door leaves remain standing after letting go.

7.2 Close door

1. Press shut the door leaf or press the optional manual release button.
 - ▶ The door leaf is released and closes.

8 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.

9 Maintenance by dormakaba

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.

10 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.

