

<b>CE</b>	<b>dormakaba Deutschland GmbH</b> DORMA Platz 1 D-58256 Ennepetal	17
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<b>CE</b>	<b>dormakaba Deutschland GmbH</b> DORMA Platz 1 D-58256 Ennepetal	17
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# GSR XEA BG

# GSR-EMF XEA BG

# 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, this instruction must be read carefully before using this product. This instruction must be kept during the life span of the product and must be passed on with it. This instruction describes the mounting, start up, maintenance and disassembly of the slide rail systems GSR XEA BG and the slide rail system GSR-EMF XEA BG. The text of the instruction is supported by the illustrations in a separate picture part. The chapter numbers in the text are top left in the illustration in the picture part. Not every chapter in the text is supported by an illustration in the picture part. The illustrations show the mounting for the active leaf DIN-R. Please proceed mirror-inverted with the active leaf DIN-R.

## 1.2 Target groups

The mounting, start up, maintenance and disassembly of the slide rail system must only be carried out by skilled personnel that is authorized by dormakaba. The operating of the slide rail system can be carried out by any person who is mentally and physically able.

## 1.3 Provided documents

- Mounting instructions
- Additionally with GSR-EMF XEA BG:
- Data sheet about the use of catching devices

## 1.4 Symbols and abbreviations used

### 1.4.1 Safety instructions



#### WARNING

This statement indicates a situation of potential risk, which could lead to death or serious injury if not averted.



#### ATTENTION

This statement indicates a situation of potential risk, which could lead to damage to property or the environment if not averted.

### 1.4.2 Further labeling

1. 2. Step-by-step graphics

1 2 Position numbers for parts

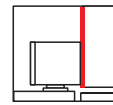


Illustration shows mounting directly onto the door lintel

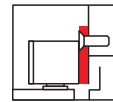


Illustration shows mounting option with mounting plates

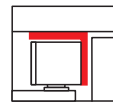


Illustration shows mounting option with lintel casing angle

### 1.4.3 Tool symbols

X (0) Tape measure

Saw



Allen wrench,  
e.g. wrench size 3

## 1.5 Glossary

E	End switch - releases fixed leaf if active leaf is shut.
EMF	Electromechanical locking device
G	Active leaf
GSR	Slide rail door coordinator
RMZ	Smoke detection panel
S	Fixed leaf
TS	Door closer

## 2 Safety

### 2.1 Intended use

The glide rail system GSR XEA BG is used for the sequential locking control of 2 winged doors. The glide rail system GSR-EMF XEA BG is used for the sequential locking control and for the locking mechanism to keep open 2 winged doors. The locking mechanism is used in conjunction with external RMZ 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 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.

### 2.3 Prerequisites for the operation of catching devices

The use of the slide rail systems as catching devices (GSR-EMF XEA BG) 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.

Additional requirements apply for the use as fire and smoke protection closures in conjunction with the external RMZ and RM. A separate verification of suitability is required for the respective fire / smoke protection door.

## 3 Product description

The slide rail system ensures the correct order when closing 2-winged doors.

The slide rail system is intended for the mounting into the opposite hinge side. The slide rail system is suitable for DIN-L and DIN-R doors and for door widths of 1500-2500 mm.

#### GSR XEA BG

The GSR XEA BG comprises the following components:

- Slide rail system with sequential locking control.

#### GSR-EMF XEA BG

The GSR-EMF XEA BG comprises the following components:

- Slide rail system with sequential locking control
- Built-in electromechanical locking device for each door leaf

The active leaf can either be locked independently from the fixed leaf or both door leaves can be locked.

### 3.1 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 sets in and the door will be closed securely through the door closer.

### 3.2 Technical data of the EMF

Operating voltage:	24 V DC in France also 48 V DC
Power consumption:	2 x 1.4 W = 2.8 W in France also 2 x 2.2 W = 4.4 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:	80° – 120°

The drive happens via an external RMZ.

## 4 Installation

The mounting of the slide rail system takes place directly on the door lintel or optionally with a mounting plate.

### 4.1 Prepare the mounting of the slide rail

The slide rail can be mounted in 3 different options:

Option **A** = Mounting directly on the door lintel

Option **B** = Mounting with mounting plate

Option **C** = Mounting with lintel casing angle

#### Mounting steps for options A, B and C

1. Prepare the power supply (24 V/48 V DC) from the smoke detection panel to the EMF in version with EMF.
2. Take into account the mounting position on active leaf G and fixed leaf S.
3. Mark the fixing points for the closer and the slide rails according to the hole pattern.
4. Drill the holes.
5. Drill the hole for the connecting cable (24 V/48 V DC) Ø 8 mm in versions with EMF.
6. Laying cables in versions with EMF.

#### Additional mounting steps for option B and C

7. Shorten the middle mounting plate or the middle lintel casing angle.
8. Mount the mounting plate or lintel casing angle onto the door profile.

### 4.2 Mount the sliding rail of the fixed leaf

1. Insert the end caps connector into the slide rail.
2. **A** Tighten the slide rail.  
**B** Tighten the slide rail on the pre-installed mounting plate.  
**C** Tighten the slide rail on the pre-installed lintel casing angle.

### 4.3 Mount the active leaf slide rail

1. Insert the end caps connector into the slide rail.
2. **A** Tighten the slide rail.  
**B** Tighten the slide rail on the pre-installed mounting plate.  
**C** Tighten the slide rail on the pre-installed lintel casing angle.

### 4.4 Mount the door closer



#### ATTENTION

##### Risk of damaging the slide rail system

The dimensions on the drill template of the door closer are not suitable for the mounting of this product.

- Use the dimensions from the drill pictures of the instruction of this product.

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

### 4.5 Shorten the connecting tube

1. Measure the dimension X.
2. Shorten the connecting tube to the dimension X-41 mm.

### 4.6 Adjust the triggering roller on the door leaf

1. Close the fixed leaf.
2. Close the active leaf.
3. Unscrew the hexagon socket screw
4. Press on the lever of the triggering roller onto the door.
5. Tighten the hexagon screw. Pay attention to the torque 5 Nm.
6. Remove the screw.

### 4.7 Mount the connecting tube

1. Open of the active leaf.
2. Open of the fixed leaf.
3. Screw in the adjusting sleeve up to marking.
4. Move the lever with the roll in direction to the opened active leaf until it clicks.
5. Insert of the connecting tube into the adjusting sleeve of the active leaf slide rail.
6. Insert the slide of the fixed leaf slide rail and fit the connecting tube into the retainer.

## 4.8 Set the sequential locking control

Only if the clamp plate is adjusted correctly, can the active leaf be moved into the direction of closing properly while the fixed leaf is closed.

The clamp plate is adjusted correctly when the connecting tube pushes the clamp plate into a rectangular position via the adjusting sleeve.

Carrying out the setting as follows:

1. Close the fixed leaf.
2. Close the active leaf.
3. Unscrew the adjusting sleeve manually so far that the pin ② drops out. In the process, the clamp plate must be in a rectangular position to the clamping rod ①. The pin holds the sequential locking control in a neutral position without hindering and will not be required after mounting.
4. Secure the adjusting sleeve with the plastic bolt.

## 4.9 Check the sequential locking control



### WARNING

#### Risk of smoke inhalation

If the GSR-EMF XEA BG is used as fire and smoke protection closure the sequential locking control must work perfectly. If the sequential locking of the door leaves is not achieved the catching device must not be used on fire and smoke protection doors.

- Mount a catch cap.

1. Open of the active leaf.
2. Open of the fixed leaf.
3. Hold the fixed leaf.
4. Change the position of the active leaf to the opening direction. The active leaf must be set in each position.
5. Let the fixed leaf close. The active leaf must only close automatically when the fixed leaf is closed.

**If the triggering roller is not swiveled by the trigger, the trigger must be moved.**

1. Close the fixed leaf.
2. Loosen the screw.
3. Push the trigger into the direction of the triggering roller.
4. Tighten the screw

## 4.10 Connect the EMF

Only for GSR-EMF XEA

1. Lay the EMF-connecting cables of the fixed leaf to the active leaf in a way that it is not resulting in jamming the connecting rod.
2. Tighten the cable with zip ties.
3. Insert the connection cable of the EMF fixed leaf into the EMF active leaf.
4. Insert the 24/48-V-DC connecting cable of the RMZ or of the fire detection system by customers into the EMF active leaf.

# 5 Start up

Only for GSR-EMF XEA

## 5.1 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. Feed the power supply (24 V/48 V DC).
2. Open the fixed leaf until it clicks.
3. Unbolt the screws of the locking unit(s).
4. Open the door leaves to the desired opening angle.
5. Tighten the screws of the locking unit(s) again.
6. Place the door stop into the position of the fixture points selected.

## 5.2 Set the release force



### ATTENTION

#### Risk of damaging the slide rail system

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.
2. Control the release force.

## 5.3 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.
4. Measure the dimension X.
5. Shorten the middle paneling to the dimension X-30 mm.
6. Mount the middle paneling.
7. Attach the plastic shades.

## 5.4 Check the EMF

Only for GSR-EMF XEA

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

### 5.4.1 Release EMF manually

1. Open the door leaf and lock it.
2. Pull on the locked door leaves.
  - ▶ The door leaves are released and close. The active leaf closes only when the fixed leaf is closed.

### 5.4.2 Delete EMF electronically

1. Open the door leaf and lock it.
2. Cut off power supply (i.e. operation of the manual release button, alarm release of the RMZ etc.).
  - ▶ The door leaves are released and close. The active leaf closes only when the fixed leaf is closed.

## 6 Operating

Only for GSR-EMF XEA

### 6.1 Open and lock door

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

### 6.2 Close door

1. Firstly, press shut the fixed leaf, then the active leaf against the resistance or press the optional manual release button.
  - ▶ The door leaves are released and close. The active leaf closes only when the fixed leaf is closed.

## 7 Dismounting, recycling and disposal

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

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.



Translation of the original manual, subject to change without notice