

CE	dormakaba Deutschland GmbH DORMA Platz 1 D-58256 Ennepetal	17
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GSR XEA GSR-EMF XEA

Mounting instructions

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EN

1 About this manual

1.1 Information about the manual

This instruction is part of the product. The instruction contains essential instruction for the 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 XEA and the sliding rail system GSR-EMF 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. The figures show the installation of the action leaf DIN-L. Accordingly proceed mirror-inverted with the action leaf.

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

1.3 Provided documents

- Mounting instruction
- Additionally with GSR-EMF XEA:
- Data sheet about the use of arrest systems

1.4 Symbols and abbreviations used

1.4.1 Safety instructions



WARNING

This statement indicates a possible hazardous situation which may result in death or severe injuries if ignored.



ATTENTION

This statement indicates a possible hazardous situation which may result in property or environmental damage if ignored.

1.4.2 Further labeling



Action steps in diagrams



Position numbers of parts

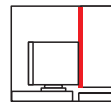


Figure shows installation directly on the door lintel

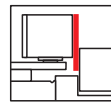


Figure shows installation options with mounting plates

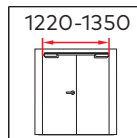


Figure shows installation steps for door widths 1220-1350 mm

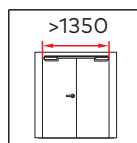


Figure shows installation steps for door widths > 1350 mm

1.4.3 Tool symbols



Tape line



Saw



Allen wrench,
z. B. 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 is used for the sequential locking control of 2 winged doors. The glide rail system GSR-EMF XEA 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) 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

GSR XEA

The GSR XEA comprises the following components:

- Slide rail system with sequential locking control
- The GSR XEA is intended for the mounting on the hinge side. The GSR XEA is suitable for DIN-L and DIN-R doors.

GSR-EMF XEA

The GSR-EMF XEA comprises the following components:

- Slide rail system with sequential locking control
- Built-in electromechanical locking device

The GSR-EMF XEA is intended for the mounting on the hinge side. The GSR-EMF XEA is suitable for DIN-L and DIN-R doors. The GSR-EMF XEA is available in three versions:

- GSR-EMF 1:
The fixed leaf is fitted with an EMF. Both leaves may be locked. The sequential locking control keeps the active leaf open.
 - GSR-EMF 2:
The active leaf and fixed leaf are each fitted with an EMF.
The active leaf can either be locked independently from the fixed leaf or both door leaves can be locked.
 - GSR-EMF 1G:
The active leaf is fitted with an EMF. The active leaf can be locked. The fixed leaf cannot be locked.
- Each door leave that is fitted with an EMF can be locked in an opening angle of approx. 80°–130°.

Statements

	Statement (lever length)	Door width (mm)
GSR XEA	VK (320 mm)	1220–1350
GSR-EMF XEA	V (375 mm)	1350–2500
	VL (375 mm)	2500–2800

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 disengages 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:	EMF 1, 1G	1,4 W
	EMF 2	2,8 W
	in France also	
	EMF 1, 1G	2,2 W
	EMF 2	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:	Active leaf	Fixed leaf
EMF 1	max. 180°	max. 130°
EMF 2	max. 130°	max. 130°
EMG 1G	max. 130°	max. 180°

The drive happens via an external RMZ.

4 Mounting

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 two different options:

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

Option **B** = Mounting with mounting plate

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

Additional mounting steps for option B (mounting with mounting plates)

8. Shorten the middle mounting plate.
9. Mount the mounting plate on 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 mounting plate.

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 mounting plate.

4.4 Mount the door closer

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-47 mm.

4.6 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. Insert of the connecting tube into the adjusting sleeve of the active leaf slide rail.
5. Insert the slide of the fixed leaf slide rail and fit the connecting tube into the retainer.

4.7 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.

4.8 Check the sequential locking control



WARNING

Risk of smoke inhalation

If the GSR-EMF XEA 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.

4.9 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 door leaves fitted with an EMF until it clicks.
3. Unbolt the screws of the locking unit(s).
4. Open the door leaves to the desired opening angle (GSR-EMF 1 XEA: only fixed leaf; GSR-EMF 1G XEA: only active leaf).
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. Mount the paneling of the glide rail.
3. Measure the dimension X.
4. Shorten the middle paneling to the dimension X-14 mm.
5. Mount the middle paneling.
6. 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 and lock the door leaves which are fitted with an EMF.
2. Pull on the locked door leaves.
 - ▶ The door leaves are released and close. The active leaf only closed when the fixed leaf is closed.

5.4.2 Delete EMF electronically

1. Open and lock the door leaves which are fitted with an EMF.
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 only closed 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.
 - ▶ Active and fixed leaf remain standing after letting go. (Only the active leaf remains standing with the GSR-EMF 1G XEA).

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 only closed when the fixed leaf is closed.

7 Dismounting, recycling and disposal

The dismantling takes place in reversed order of the mounting and must be carried out by skilled staff. 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