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1 About this document

1.1 Contents and purpose

This manual describes the installation, startup, maintenance and disassembly of the TS 97 FL XEA door closer. The manual's picture section is partly supported by text in this section of the manual.

1.2 Target group

The hold-open system's mounting, commissioning, maintenance and disassembly must only be carried out by qualified personnel that have been authorized by dormakaba. The acceptance inspection must only be carried out by qualified personnel certified for this by dormakaba.

1.3 Other applicable documents

The following documents belong to the unit's complete documentation and must be observed:

- Drilling template
- Picture section for mounting instructions
- General design approval
- Information sheet about the use of hold-open systems

1.4 Documents storage

This manual must be kept during the service life of the product and must be passed on with the product.

1.5 Safety instructions



CAUTION

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

1.6 Symbols used

1. Step-by-step graphics

TS 97 FL XEA

Mounting instructions

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① ②	Position numbers of components
	The icon indicates the installation stages of the supplied cable loop
	The icon indicates installation stages if the supplied cable loop is not mounted.
	The icon indicates installation stages when the door closer is mounted on the door leaf.
	The icon indicates installation stages when the door closer is mounted on the door lintel.

1.6.1 Tool icons

	Allen wrench, e.g. wrench size 3
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2 Safety

2.1 Intended use

The TS 97 FL XEA is intended solely for the controlled closing of swing doors with the following properties:

- Maximum door leaf weight 180 kg
- Maximum door leaf weight 1,400 kg
- Maximum door opening angle approx. 145° when TS 97 FL XEA is mounted on the door leaf on the hinge side, on the lintel on the hinge side, or on the lintel on the opposite side to the hinge.
- Maximum door opening angle approx. 105° when TS 97 FL XEA is mounted on the door leaf on the opposite side to the hinge.
- The swing door's opening angle must be limited by a doorstop.
- An external manual release button is required to interrupt the power supply. The manual release button must not be covered by the opened door.

Observe country-specific regulations when using on fire barriers, fire protection doors and smoke barriers. Do not operate the TS 97 FL XEA on the lintel on the opposite side to the hinge for fire protection doors.

2.2 Prerequisites for the operation of hold-open systems

The use of hold-open systems is subject to special provisions due to the official approval regulations. These provisions relate in particular to acceptance, ongoing monitoring and maintenance. Observe the instructions in the information sheet on the use of hold-open systems. Additional requirements apply for use as fire/smoke protection closure in conjunction with external RMZ and RM. A separate verification of suitability is required for the respective fire/smoke protection door.

2.3 Requirements for the electrical installation by the customer

Before mounting, connect the cables to the TS 97 FL XEA's 24 V DC power supply. Only use the cable loop supplied when mounting the TS 97 FL XEA on the door leaf's hinge side.

3 Product description

The TS 97 FL XEA is a slide rail door closer with freewheel function. The door closes automatically in the following cases:

- In case of power failure
- In connection with an external RMZ in case of fire
- In conjunction with an external manual switch

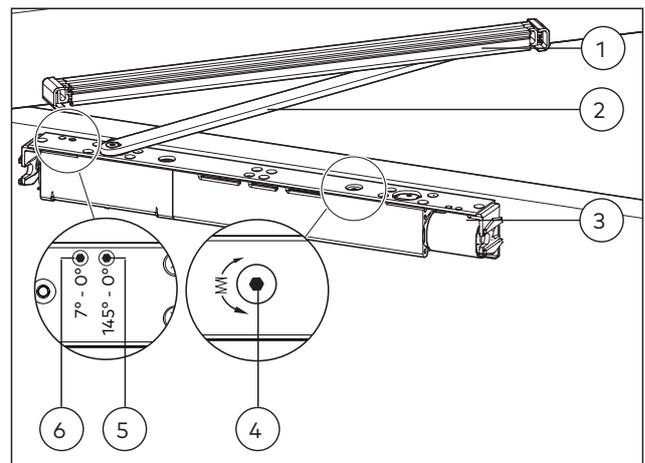


Fig. 1 TS 97 FL XEA in DIN-L mounting on the door leaf

- (1) Slide rail (without cladding)
- (2) Lever arm
- (3) TS 97 FL XEA (without cladding)
- (4) Adjusting screw for adjusting the closing force
- (5) Valve for adjusting the closing speed
- (6) Valve for adjusting the end stop

3.1 Technical data

Supply voltage operating voltage	24 V DC +/- 15 %
Power consumption	approx. 3 W
Ambient temperature:	-15°C to +40°C
Rel. humidity:	up to 93% (non condensing)
Protection class:	IP 54

3.2 Optional components

- Concealed cable loop for the door closer's power supply via the door leaf, e.g. dormakaba KÜ 480 and LK12
- 24 V DC power supply and smoke detector panel, e.g. dormakaba RMZ

4 Mounting

The figures in this manual's picture section show in part only the mounting for DIN-L. For DIN-R, the instructions must be mirror-inverted.

4.1 Mounting variants

The TS 97 FL XEA can be mounted at the following positions:

- on the door leaf on the hinge side
- on the door lintel on the hinge side
- on the door leaf on the opposite side to the hinge
- on the lintel on the opposite side to the hinge if the door is not a fire/smoke protection door. This mounting position does not conform to the CE marking.

4.2 Mounting the door closer and slide rail

1-7

Carry out the mounting according to the enclosed illustrated instructions.

4.3 Mount lever arm

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CAUTION

Risk of injury due to unintentional loosening of the screw connection on the lever arm

- Only use the self-locking screw supplied. If this screw is loosened during repair or maintenance work, the screw must be replaced by a new self-locking original screw.

Mount the lever arm according to the illustrated instructions and the mounting variant.

4.4 Adjust door closer

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Adjust the door closer power.

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1. Adjust the closing speed.
2. Adjust the end stop.

4.5 Mount the cladding

11-13

Carry out the mounting according to the enclosed illustrated instructions.

4.6 Set the doorstop

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Set the doorstop according to the mounting variant and the structural conditions. The maximum opening angle must not be exceeded.

4.7 Function test

4.7.1 Freewheel function

1. Apply the voltage
2. Open the door until it stops once
 - ▶ After the first opening, the door can be opened and closed manually without resistance by the door closer.

4.7.2 Close door

1. Disconnect the voltage
 - ▶ The door closes automatically.

5 Disassembly, recycling and disposal

Disassembly is carried out in reverse order to the mounting and must be carried out by qualified personnel.



The product must be disposed of in an environmentally friendly manner. Electrical parts and batteries must not be disposed of with domestic waste. Dispose of electrotechnical parts and batteries in the designated acceptance and collection points. Refer to the statutory regulations for your country.

Translation of the original manual, subject to change without notice

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