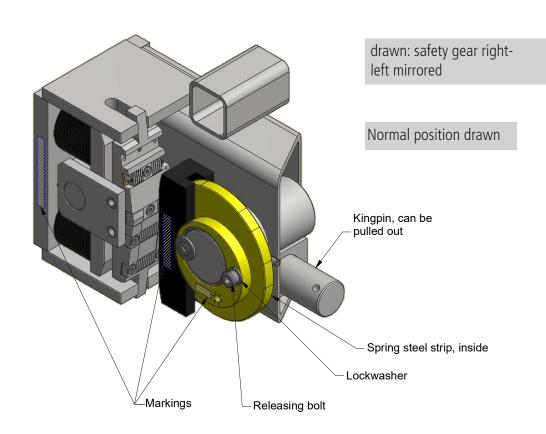


Operating Instructions Safety module EB 75 GD/EU-SG 514 General

Safety Module ↓↑

www.schlosser.de

Progressive safety gear - upward/downward acting = payload + mass of lift car in FREE fall Braking device = 1/2 payload + masses UPWARDS upon tripping the overspeed governor incl. UCM/A3



General instructions	5350.800.002
Installation diagram - engagement DOWNWARDS	5350.800.003
Installation diagram - engagement UPWARDS	5350.800.004
Installation - basic	5350.800.005
Installation - test	5350.800.006
Installation/test instructions	5350.800.007

Schlosser Aufzugtechnologie GmbH Felix-Wankel-Straße 4	Ausgabe edition	Seiten pages	Bearbeiter person in charge	Zeichnung Nr. drawing nr.
85221 Dachau T +49 8131 / 5186-0	06.09.2018	1/7	Kepplinger	5350.800.001



General instructions

!Important!

Prior to commissioning:

- 1. Before commissioning and testing the guide rails must be cleaned thoroughly prior to installation! Whether "old" or "new", (due to dirt, old lubricant or protective agents in case of new rails!), they must be kept clean both before and after commissioning!!!
- 2. Should this not take place, negative changes in the braking force etc. can/will occur: In this case, any potential claim will be rejected.
- 3. Should ",old" guide rails show very long skid marks or many and deep marks (e.g. from safety gear), they have to be replaced by new guide rails of the same type.
- 4. After recommended test check (only functional test low speed/empty lift car) a safety test (engagement test) must be carried out according to the applicable guidelines (e.g. EN 81-20/50), also for "SRMs" (conveyors), or according to the manufacturer's specifications.

 Should none of the above provisions apply, the test must be executed in the "downward" direction at

least with nominal speed and nominal load without any braking of the drive unit (e.g. keep operational brake open!), otherwise no performance record! In the event of uncertainties, please contact us - as

manufacturer - immediately.
Periodical tests (engagement tests) must also be carried out

at regular intervals.

5. The brake power is assessed by persons with professional expertise (e.g. inspection bodies etc.).



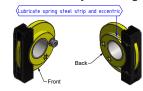
It must be easy to

move the safety module smoothly on the kingpin

6.

!Maintenance!

- 1. It must be possible to turn the actuating shaft manually until the gripping eccentric engages and the safety gear switch must be actuated. When pulled out from the braking position, the actuating shaft (gripping eccentric) must turn back into neutral position.
- 2. The guide rails must only be oiled with specified lubricants. (Observe EC-type examination certificate). No greases, oils which become resinous etc.
- 3. Maintenance at least once annually (or operating hours or contamination).
- 4. Avoid rust by cleaning and lubricating the moving parts.

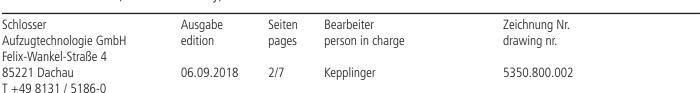


5.

www.schlosser.de

Lubricate all joints, in particular the spring and the gripping eccentric (if they are not moving smoothly).

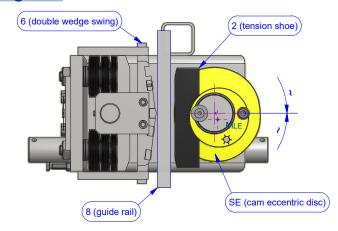
- 6. It must be possible to move the safety gear/safety module smoothly on the kingpin (floating system).
- 7. Check the tractive force of the overspeed governor with required tractive force of the safety gear/safety module (at least statically).



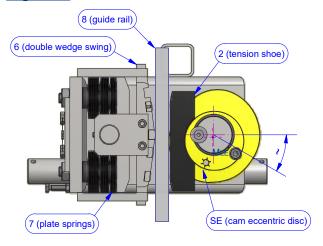
Installation diagram - engagement downwards

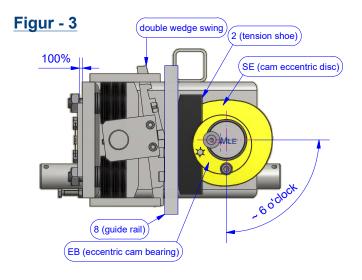


Figur - 1



Figur - 2





Figur - 1 (3 o'clock)

Rest position = free position Guide rail (8) makes no contact with the double wedge lever (6) or the tension shoe (2) or the cam eccentric disc (SE).

Figur - 2

Engaged position

SE is turned by the overspeed governor until the knurled circumferential surface of the SE and the double wedge swing (6) make contact with the rail (8) on both sides.

From this moment on, the cam disk (SE) takes over the tensioning of the plate springs (7).

Figur - 3 (6 o'clock)

Brake position

The following eccentric cam bearing LE brings the tension shoe (2) in contact with - 8 - SE now loosens its contact with the guide rail (8) and, as a result, the position of the SE doesn't change any more which stops the car by slowing down uniformly. The double wedge swing (6) swings upwards. Dead centre of the eccentric cam bearing prior to the brake position (CEB).

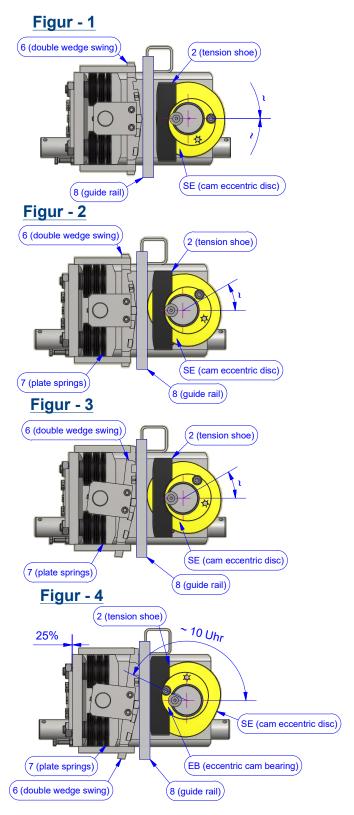
Note: On release of the engagement upwards or downwards, the double wedge swing (6) swings/tilts "immediately" in the opposite direction and one could get the impression that it is in a different engagement position than assumed.

Schlosser
Aufzugtechnologie GmbH
Felix-Wankel-Straße 4
85221 Dachau
T +49 8131 / 5186-0
www.schlosser.de

Installation diagram - engagement upwards

EB75GD





Figur - 1 (3 o'clock)

Rest position = free position

The guide rail (8) makes no contact with the double wedge swing (6) or the tension shoe (2) or the cam eccentric disc (SE).

Figur - 2

Engaged position

The cam eccentric disc (SE) is turned by the overspeed governor until the knurled circumferential surface of the SE and the double wedge swing (6) make contact with the rail (8) on both sides.

From this moment on, the cam disk (SE) takes over the tightening of the plate springs (7).

Figur - 3

Pre-brake position

The cam eccentric disc (SE) presses against the guide rail (8) which increasingly tensions the plate springs (7) via the folded-in doubled wedge spring (6) to overcome the long angle of rotation and to prepare the secure engagement with the double wedge spring (6).

Figur - 4 (10 o'clock)

Bremsstellung

The following eccentric cam bearing (LE) brings the double wedge swing (2) in contact with -8- SE now loosens its contact with the guide rail (8) and, as a result, the position of the (SE) doesn't change any more which stops the car by slowing down uniformly. The double wedge swing (6) is now swung to the bottom. Dead centre of the eccentric cam bearing prior to the brake position (CEB).

Note: On release of the engagement upwards or downwards, the double wedge swing (6) swings/tilts immediately in the opposite direction and one could get the impression that it is in a different engagement position than assumed.

Schlosser
Aufzugtechnologie GmbH
Felix-Wankel-Straße 4
85221 Dachau
T +49 8131 / 5186-0
www.schlosser.de

06.09.2018

4/7

Bearbeiter person in charge

Kepplinger

5350.800.004

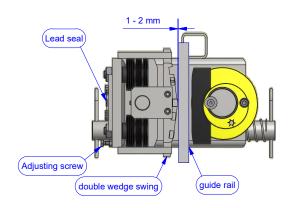
Zeichnung Nr.

drawing nr.

EB59D, EB75KD

Installation Basic





Gap of at least 15mm

(Reset bracket

The safety module $\downarrow \uparrow$ may only be installed if the values indicated on the type plate correspond to the lift data. Check that the lead sealing is undamaged.

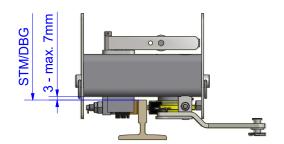
Attach firm brake shoe to the rail using an adjusting screw with a gap between 1 and 2 mm.



Attention: Strictly avoid any contact with the guide rail in case of spring-loaded guiding elements! (observe spring deflections!, otherwise unintended engagement etc!)

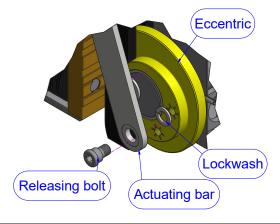
Please be sure to plan gaps.

- Keep a gap of 15 mm above the guiding profile. Work area of reset bracket.
- It must be possible to pull out the kingpin.



Please note the immersion depth of the guide rail.

• 3 - max. 7mm



Attention:

When mounting the actuating bar onto the eccentric, strictly ensure that the lockwasher is **between** the actuating bar and the eccentric, no matter which actuating gear is used.

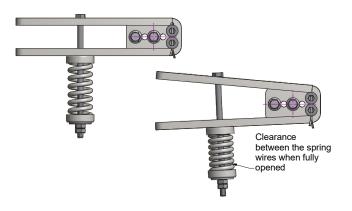
Schlosser
Aufzugtechnologie GmbH
Felix-Wankel-Straße 4
85221 Dachau
T +49 8131 / 5186-0
www.schlosser.de

5/7

06.09.2018



Installation/testing



Attention:

Adjust the resetting spring in such a way that the pull-in forces are not too high and to ensure sufficient spring deflections.

Test in detail

Reading the knurling marks

DOWNWARDS:

Braking distance UPWARDS

Braking distance Threshold distance

a) 1,25 times nominal load and nominal speedb) or nominal load and with tripping speed

c) Keep brake open!

Note:

To make it easier to draw the car out of the engagement, it is recommended to carry out the test near a door so that the load from the car can be discharged there.

UPWARDS:

a) Empty car with min. nominal speed without any braking aid (operational brake open, drive system switched off)

After the test, make sure that no damage has occurred that could impair the normal operation of the lift. If necessary, brake shoes can be replaced. Visual examination is considered sufficient.

The objective of the test prior to commissioning is to determine the proper assembly, the correct adjustment and the strength of the functional unit, comprising the car - safety gear - guide rails - rail mountings.

Tripping/ engagement forces:

at least 300N in both $\downarrow \uparrow$ **but** at least double the **required** tractive force $\downarrow \uparrow$ of the safety gear/safety module.

Schlosser
Aufzugtechnologie GmbH
Felix-Wankel-Straße 4
85221 Dachau
T +49 8131 / 5186-0
www.schlosser.de

Threshold distance

Ausgabe edition 06.09.2018

Seiten pages

6/7

Bearbeiter person in charge

Zeichnung Nr. drawing nr.

Kepplinger

5350.800.006

Installation/test instructions



Pulling off the \downarrow engagement \uparrow brake position.

Please be aware that the pull-out force can be approximately half of the braking force.

Downwards

↓ Engagement position: The following M8 bore hole in the cam eccentric disc shows approx.
6 o'clock

Pull off the \downarrow engagement position in steps:

- Start quickly in upward direction using the re-levelling control.
- Several repetitions = in principle: loosen and tighten ropes.
- Handwheel aid
- Empty the car
- Traction sheave clamp, lifting etc.



↑ Brake position: The leading M8 bore hole in the cam eccentric disc shows approx. 10 o'clock

Pull off the ↑ brake position in steps:

- Start quickly in downward position using the re-levelling control.
- Several repetitions = in principle: loosen and tighten ropes.
- Handwheel aid
- Load the car
- Traction sheave clamp, lifting etc.

Note:

- 1. In the case of weightless testing downwards (electronic test device), the bouncing of the cabin can cause the brake to fall back or be pulled into the upwards braking position (bouncing counterweight!).
- 2. Also, a release from the upwards braking position can cause the brake to fall back or be pulled into the downwards direction (jerky release from above!)

<u>Info</u>: Please check eccentric position in the case of problems. See diagram upwards/downwards engagement!

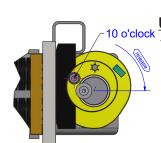
Note:

The release of the cabin from the downwards braking position tends to be more difficult, the "lighter" the cabin is in relation to the nominal load. (Heavy counterweight to light cabin!)

Liability and warranty:

For damages that result from improper handling or strange use of our product with respect to these operating instructions, Fa. Aufzugtechnologie Schlosser assumes no liability or warranty.

Schlosser	Ausgabe	Seiten	Bearbeiter	Zeichnung Nr.
Aufzugtechnologie GmbH Felix-Wankel-Straße 4	edition	pages	person in charge	drawing nr.
85221 Dachau	06.09.2018	7/7	Kepplinger	5350.800.007
T +49 8131 / 5186-0				
www.schlosser.de				



6 o'clock