ÜLOCK MF-B Inductive
ÜLOCK MF-Z Inductive

Installation, operating and maintenance instructions

Please note the additional information on the ÜLOCK MF-B Premium panic lock:

Declaration of performance ÜLOCK MF-B Premium EN 1125

Declaration of performance ÜLOCK MF-B Premium EN 179

The DoPs still need to be adapted.

Contents

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	**Attention!** General note to dangers and necessary compliance with specifications
	**Note!** General note and information that is part of the technically correct execution of work

1 Description/function

1.1 Applications

The electrically activated **ÜLOCK MF Inductive** automatic multipoint locking is suitable for use in property doors with release via an access control, emergency exit or passage doors with high security requirements.

1.2 Function

Locking (close)

The **MF-B and MF multi**point locks lock automatically by magnetic release. When the door is closed, two latch bolts, two stable swing hook bolts and the middle latch bolt extend to 20 mm. All locking elements are protected against being pushed back.

The lever handles (MF-Z) and the outside lever handle (MF-B) are idle in the home position, so that the door cannot be opened.

Unlocking (open) MF-Z

- By radio-controlled activation (temporary or permanent) of the inside and outside lever handle, e.g. via a Südmetall access system or via a third-party system in conjunction with Südmetall radio I/O modules.
- By mechanical activation of the lever handle using the key of the profile cylinder (no freewheel cylinder required).

Unlocking (open) MF-B

- By operating the inside lever handle or the panic handle bar
- By radio-controlled activation (temporary or permanent) of the outside lever handle, e.g. via a Südmetall access system or via a third-party system in conjunction with Südmetall radio I/O modules.
- By mechanical activation of the outside lever handle via the key of the profile cylinder (no freewheel cylinder required).

Attention!
Activation of the outside handle is delayed by approx. 0.5 seconds, during which time it must not be operated.
Actuating the outside handle during the engagement time can cause damage to the lock.

1.3 Technical Features

	MF-Z Inductive	MF-B Inductive
Lock follower	continuously	split
Electrically activated lever handle(s)	Inside and outside lever handle (in home position in idle mode)	Outside lever handle (in home position in idle mode)
Panic function	without panic function	certified in accordance with EN 179 / EN 1125, panic forced closure function C (via the profile cylinder)
Locking mechanism	Profile cylinder (PZ 92 mm) Round cylinder (RZ 94 mm)	Profile cylinder (PZ 92 mm) Round cylinder (RZ 94 mm)
Backset dimensions	35, 40, 45, 50, 55, 60, 65 mm	35, 40, 45, 50, 55, 60, 65 mm
Operating voltage	3V DC	3V DC
Power consumption	210 mW	210 mW
Square follower	9 mm	9 mm
Data transmission	Radio: 868.3 MHz AES - 128 encryption Radio range in buildings up to 10 m	Radio: 868.3 MHz AES - 128 encryption Radio range in buildings up to 10 m

1.4 Technical data transmitter unit module

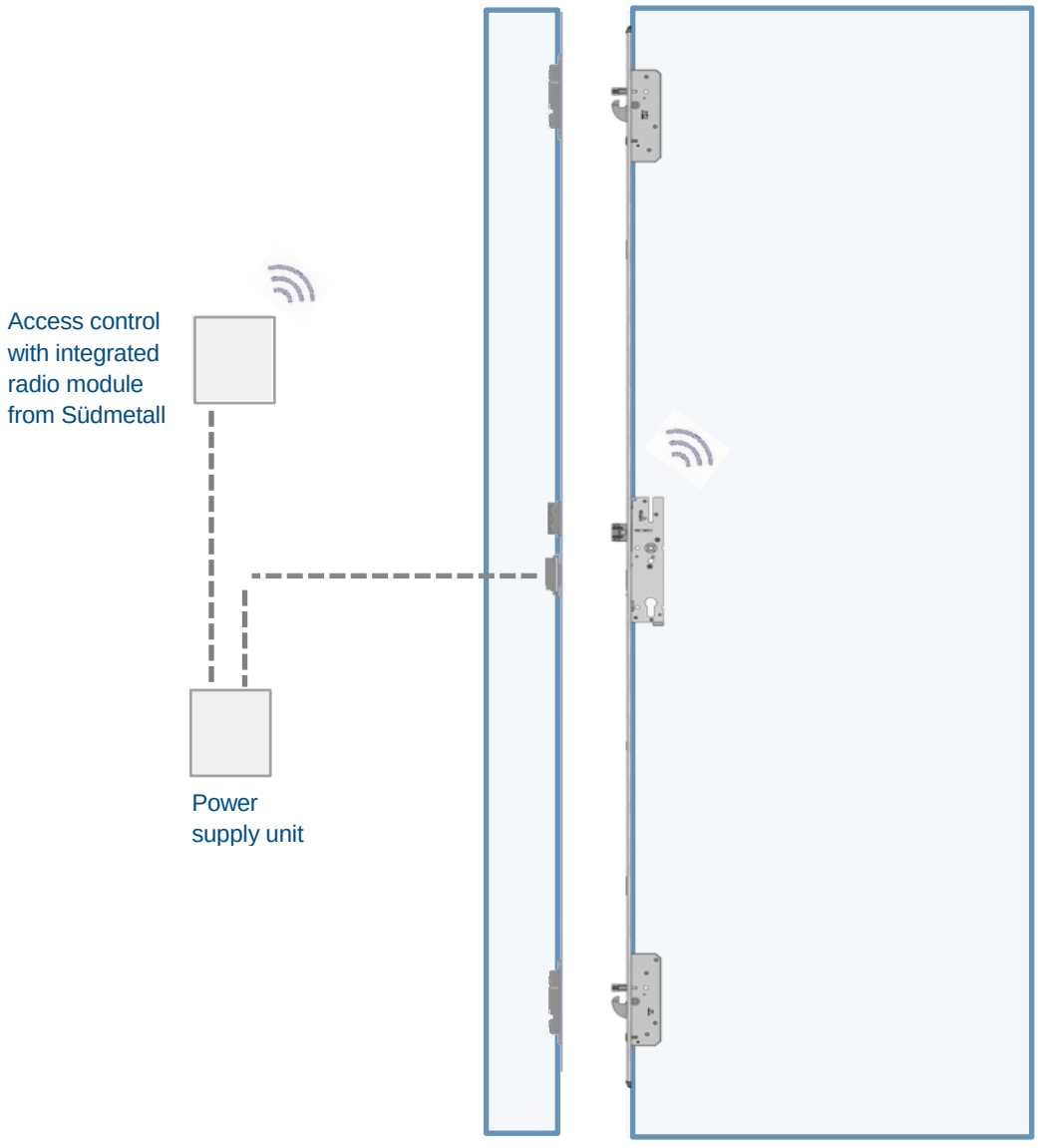
Power supply	9- 24V DC
Power consumption standby	< 1W
Max. power consumption	< 5W
Maximum current	400mA @ 12V DC / 200mA @24V DC
Operating temperature:	Operating temperature: from -10°C to +50°C
IP protection class	IP 54
Rebate air (permissible door gap)	2 to 6mm
Adjustment	3 mm in vertical direction
Initial loading time	15 s
Charging time max.	15 s

2 Accessories

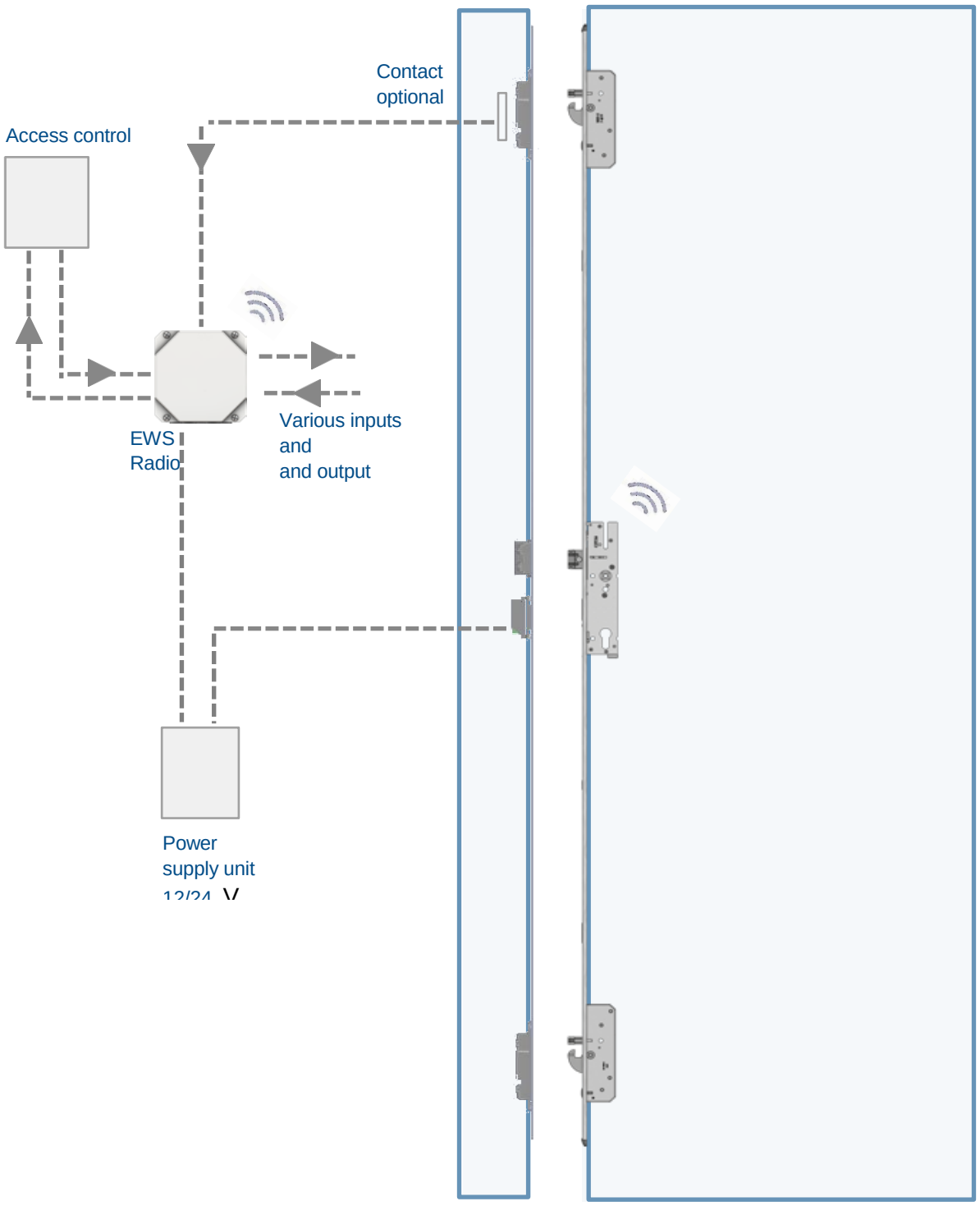
- Access systems from Südmetall with integrated radio 868.3 MHz
- I/O modules 12/24 V DC 868.3 MHz
- I/O module EWS radio 868.3 MHz
- Hand-held transmitter
- Strike bars and locking parts
- Switching power supplies
- Bolt switch contact

3 Connection variants

3.1 Connection variant access control Südmetall

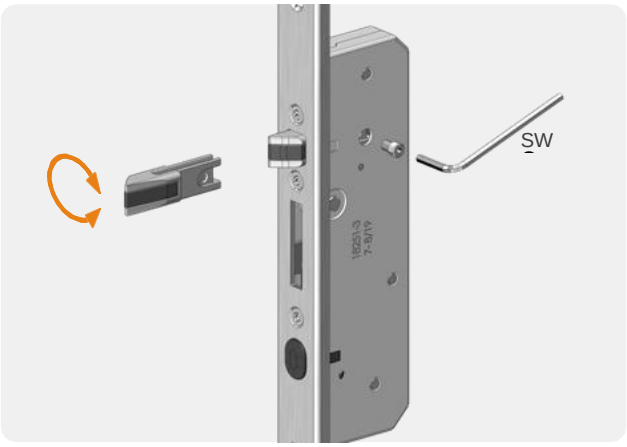


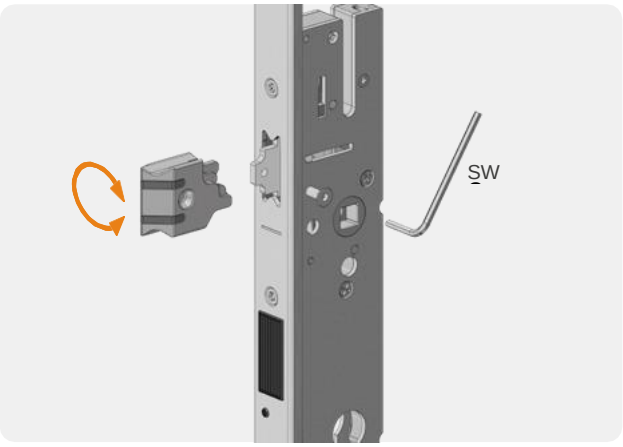
3.2 Connection variant EWS radio



4 Installation instructions Locking devices

4.1 Latch conversion





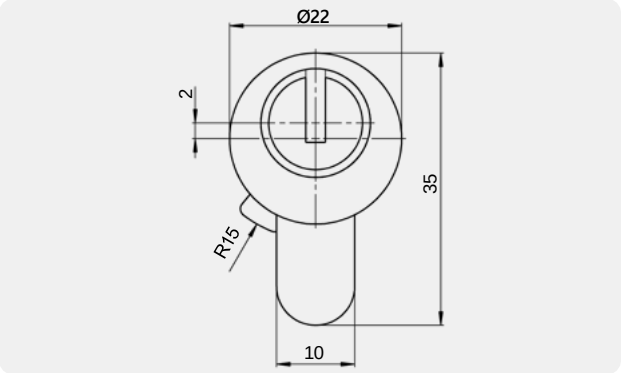
4.2 Notes on lever handles and locking cylinders

We recommend the use of lever handles/handle sets with lifting spring.

The MF-Z and MF-B multipoint locks are available with profile cylinder and round cylinder perforations.

You can use standard profile cylinders . A free wheel function (FZG) or an anti-panic cylinder with a defined locking cam position is not required.

Round cylinders with the dimensions shown can be used (locking circuit R15).

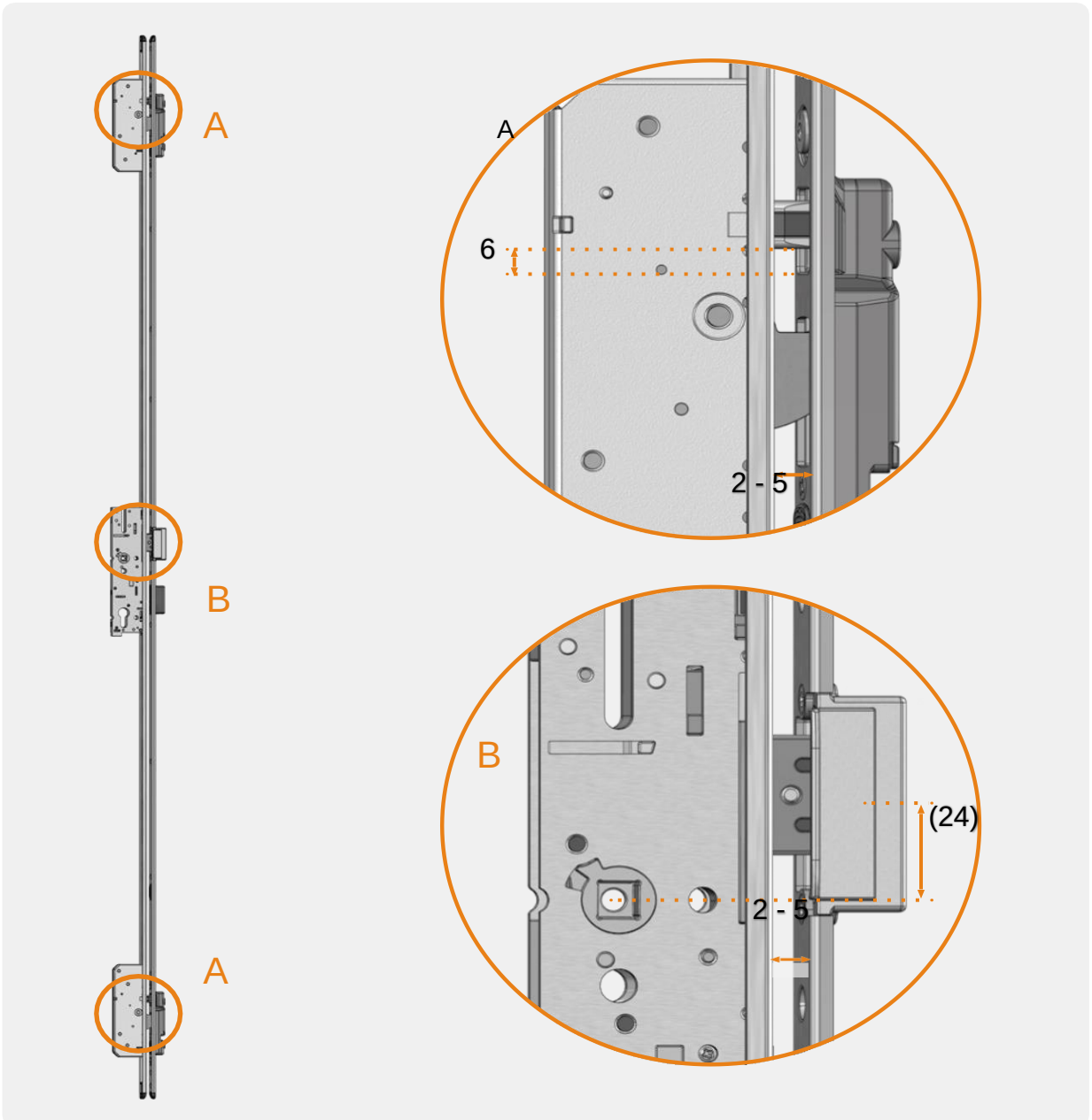


5 Installation instructions locking bars/locking parts

For the **MF-Z Inductive and MF-B Inductive** multipoint locks , strike plates and locking parts with an inductive transmitter unit are used. For outward-opening doors, profile-related sliding pieces must be used for the three latch bolts.

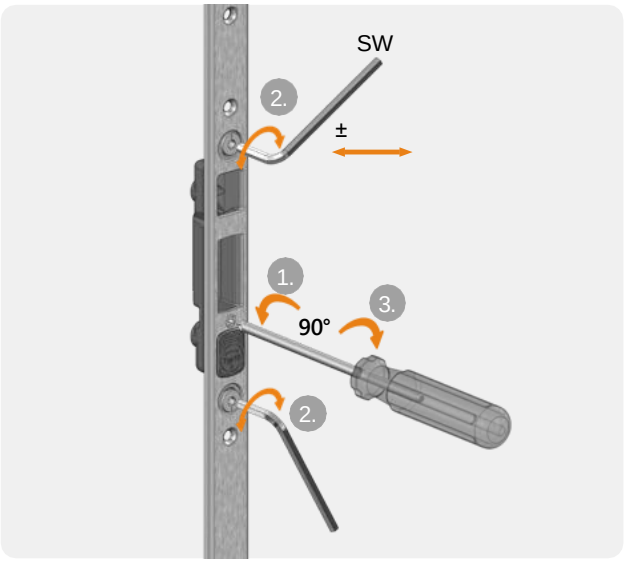
5.1 Positioning of the locking parts/locking bar

A reliable function of the automatic locking system is guaranteed , if the locking parts or the locking bar are correctly positioned in relation to the lock. An adjustment can be made via the hinges.



5.2 Setting of the locking parts/locking bars

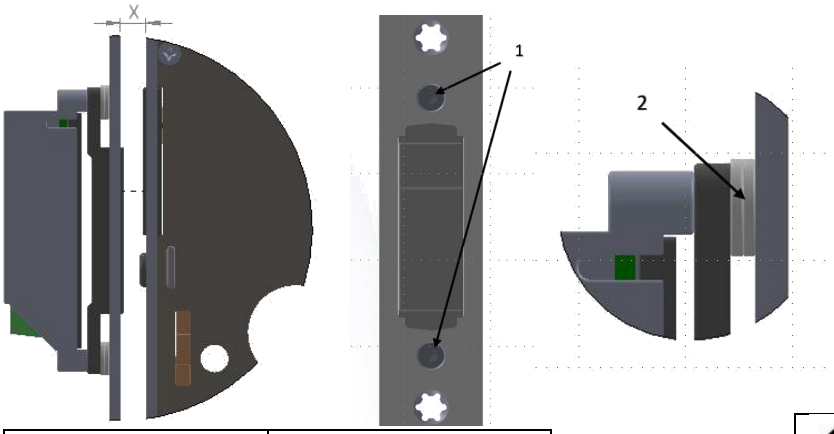
For an optimum tightness of the door , the closing parts/locking bars can be adjusted .



5.3 Setting the optimum energy transfer

To achieve optimum energy transmission, the transmitter unit module must be adjusted according to the existing door gap and aligned in height to the position of the receiver unit in the multipoint locking.
The optimum door gap should be 3 mm.

Adjustment according to door gap:

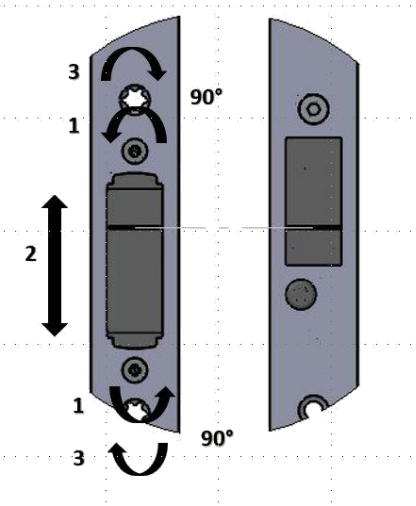


- First, the door should be preset via the hinges in accordance with point 5.1.
- Loosen the screws (1) of the transmitter unit (Torx 2)
- remove the corresponding number of disks (2)
- Screw in and tighten the screws (1)

Door gap X (mm)	Number of spacers (pieces)
5	0
4	1
3	2
2	3

Note!
See also 5.1 Positioning of the locking parts / locking bar

Height adjustment:

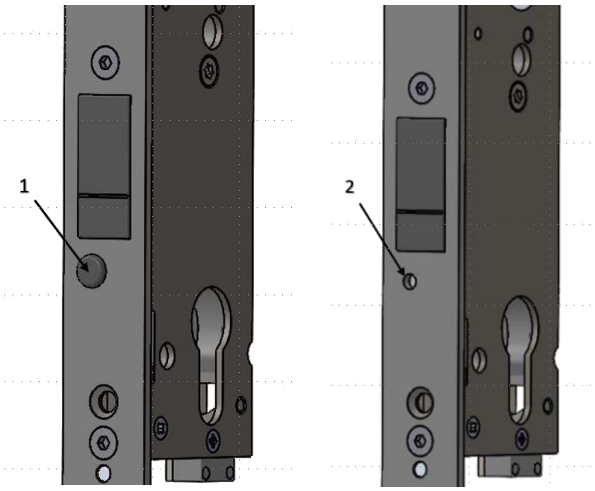


1 Loosen the screws of the transmitter unit (Torx 2) in the locking bar or locking part by 90°

2 Move the height of the transmitter unit, so that the markings (notches) of the transmitter and receiving unit are at the same height

3 Tightening the screws

6 Operation - Programming and deleting transmitters



Before programming and deleting transmitters, the cover (1) underneath the receiver unit must be removed.

Access (2) to the teach-in button is located behind the cover.

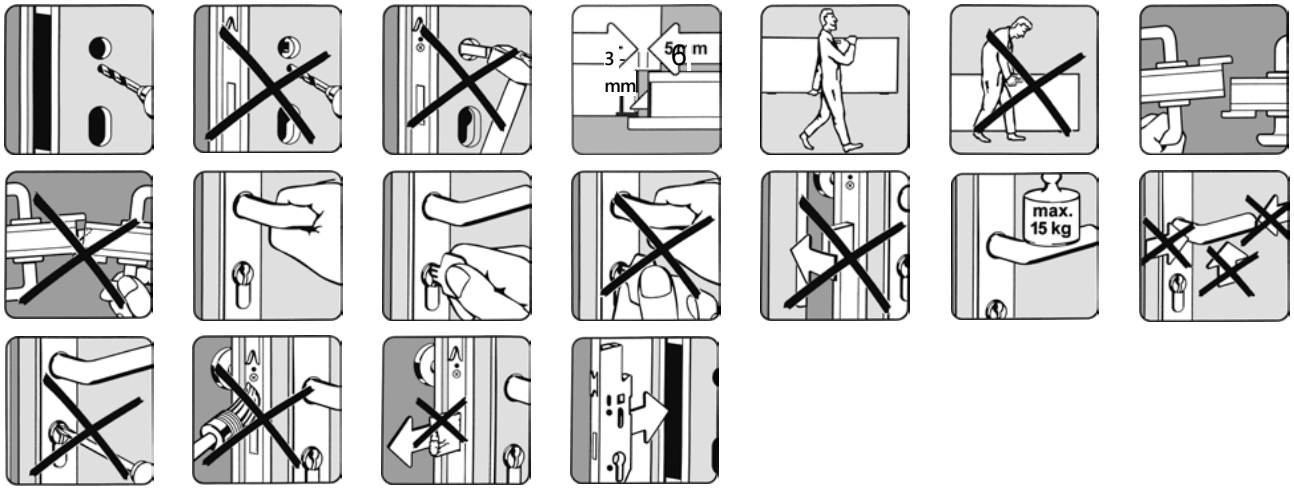
Note!
The teach-in button only needs to be pressed lightly, e.g. with a 2.5 Allen key. Pressing too hard can damage the button.

Event	Action	Message lock	Remark
1. Programming a transmitter	1.1. Operate and hold the profile cylinder as far as it will go in the opening direction 1.2. Briefly press the programming button on the lock 1.3. Actuate transmitter	 LED indicator in the programming button *flashes **green** slowly* LED display in the programming button *flickers **green*** and goes out	 Lock in learning mode Hand-held transmitter programmed, lock in normal mode
2. Deleting an existing transmitter	2.1. Operate and hold the profile cylinder as far as it will go in the opening direction 2.2. Press the programming button on the lock for > 5 s 2.3. Press the transmitter to be deleted	 LED indicator in the programming button *flashes **red** slowly* LED indicator in the programming button *flickers **red*** and goes out.	 Lock in delete mode Transmitter deleted, lock in normal mode
3. Delete all transmitters (A lost hand-held transmitter cannot be	3.1. Operate and hold the profile cylinder as far as it will go in the opening direction		

deleted individually. All transmitters registered on the lock must be deleted. All authorized transmitters must then be reprogrammed)	3.2. Press the programming button on the lock for > 5 s	LED indicator in the programming button *flashes **red** slowly*	Lock in delete mode
	3.3. Press the programming button on the lock again and hold for > 5s	LED indicator in the programming button *flickers **red*** and goes out	all transmitters deleted

Note!
Only access systems (transmitters) with Süd-Metall radio can be used. Access systems without Süd-Metall radio require an I/O module to control the radio lock.

7 Installation and fixing instructions



7.1 General Instructions for automatic locks from Südmetall

- Can be used for single-leaf elements made of timber, aluminum and steel as well as for double-leaf doors with optional leaves.
- Leaf and frame must run parallel on of the total height . The lock is not designed to straighten warped or distorted door leaves.
- Only profile cylinders in accordance with DIN 18252 or round cylinders may be used .
- We recommend the use of lever handles/handle sets with lifting spring.
- Cut-out for the lock cases as per drawing.
- Cut-out for profile cylinder and lever handle must be aligned .
- Never drill holes in fittings with installed lock .
- Before the installation of the lock , all impurities, e.g. chips, must be removed from the milling area.
- Fix the forend and locking parts using screws with Ø 4 mm, length adapted to the profile system.
- The mounting screws must be screwed in at right angles to the forend.
- When tightening the forend screws, ensure that the drive rods can move freely.
- Observe the exact position of the locking parts according to the drawing to ensure secure engagement of the locks.
- Ensure easy locking of the latch and all locking elements.

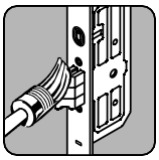
- For SKG-approved aluminum elements: Fix the forend and locking parts to the aluminum profile using screws with ø 4 mm, length adapted to the profile system.
- For SKG-approved timber elements: Fix the forend and locking parts using screws with ø 4 mm, length 40 mm.
- If a function is difficult to operate after the lock has been fitted, never use force! Instead, the cause must be identified and remedied.
- When transporting the doors - even when the lock is locked - protect the leaf against displacement.

7.2 Additional Instructions for escape door locks from Südmetall

- When using locking cylinders, the operating element (key, knob, etc.) must not obstruct the operation of the panic handle bar or push bar in any position.
- Door seals (e.g. profile seals, floor seals) must not affect the smooth-running and intended function of the escape door lock.
- When using a panic handle bar or a push bar, its rotary movement must be coordinated with that of the lock follower, but must be at least 22°.
- The fastening of panic or emergency exit devices can vary depending on the door material. Through bolts should be used to secure the panic bars and lever handles reliably.
- If a door closer is installed, it should be ensured that this does not make it unnecessarily difficult for children, disabled and elderly people to operate the door.
- Before installation on fire/smoke protection doors, it must be ensured that this escape door lock is suitable for this particular door.
- If the escape door locks are fitted to glazed doors, it must be ensured that the glass parts are made of safety glass or laminated safety glass.
- Panic/emergency exit devices are not suitable for use on swing doors.
- The panic handle bar or the lever handle should normally be installed at a height between 900 mm and 1100 mm above the surface of the finished floor when the door is closed. If it is known that the majority of users of the building are small children, a reduction in the height of the bar should be considered.
- For panic exit devices, the panic handle bar should be installed in such a way that the maximum effective bar length is achieved.
- When installing emergency exit devices with handle actuation, especially on doors with stepped surfaces, any potential safety risks, e.g. trapping fingers or catching clothing, should be avoided as far as possible.
- A pictogram with an opening indication should be affixed to the inside of escape doors.

8 Maintenance and care

	**Attention!** The other points listed serve as a supplement to the Südmetall information on product liability for door locks, see www.suedmetall.com. Building owners and users must be made aware of their compliance. If these essential instructions are not followed, no guarantee can be given for the proper functioning of the system. The Südmetall MF lock may only be used in conjunction with the components supplied. Otherwise no warranty can be accepted.



Building owners and users should be made aware that safety-relevant fittings parts must be checked for tightness and wear at least once a month, depending on the frequency of use, but at the latest after approx. 20,000 operating cycles. The panic/emergency opening function must be checked at the same time. If necessary, the fixing screws must be tightened by a specialized company and the damaged or worn fitting parts replaced with original parts.

In addition, building owners and users must be informed that the following maintenance work must be carried out at the same time:

- Safety-relevant fittings parts must be checked at least once a year for tightness and wear. If necessary, the fixing screws must be tightened by a specialized company and the damaged or worn fitting parts replaced with original parts.
- In addition, all moving parts must be checked for proper function.
- When the door is open, the bevels of the three latch bolts must be slightly greased. Do not oil! Only acid-free multi-purpose grease should be used.
- Ensure that the locking counterparts are not blocked or clogged.
- Check that no additional locking devices have been subsequently added to the door.
- Regularly check that all components of the system continue to comply with the list of approved components originally supplied with the system.
- Regularly check that the operating element is properly tightened.
- Use a force gauge to measure and record the actuating forces required to release the escape door. Check that the actuating forces have not changed significantly compared to the actuating forces recorded during the initial installation.
- Only use cleaning and care products that do not impair the corrosion protection of the hardware components .
- We recommend that maintenance is carried out via a maintenance contract with an authorised specialist company.

9 Certifications | Labeling of the locks

9.1 Panic exit devices EN 1125 + Emergency exit devices EN 179

Attention! Please note!

CE conformity in accordance with EN 1125 and EN 179 only applies if the ÜLOCK MF-B Premium panic locks are used with the tested and certified components. You can find detailed information about ÜLOCK MF-B on our website.

Panic exit devices EN 1125 and Emergency exit devices EN 179

CE **ÜLOCK MF-B Premium** -1-leaf

1309 CPR xxxx	202x
EN1125:2008	3-7-6-0-1-3-2-1/2-A /B-B
1309 CPR xxxx	202x
EN179:2008	3-7-6-0-1-3-5-1/2-A /B-B/ D

Technical details Door leaf height:
max. 4,000 mm
Door leaf width: max. 1,320 mm
Leaf weight: max. 200 kg

9.2 Further certifications/tests

Tested according to EN V 15685

Tested according to EN 14846

Certified in accordance with BRL 3104/NEN5089: 2009, Class 3

10 Elimination of possible errors and faults

If the Südmetall lock does not function properly, please use the following error matrix to find the cause and rectify it.

Note!
The complete Südmetall lock has been carefully checked by the manufacturer. If malfunctions occur after the installation, the cause must first be sought in the installation of the door or in the connection situation. Careful, faultless installation and maintenance of the door is essential for long-lasting, trouble-free operation.

Error type	Possible cause of error	Troubleshooting
The lever handle cannot be activated via a radio signal.	Transmitter is not programmed. Radio distance between transmitter and lock too great.	Programming the transmitter. Reduce distance between transmitter and lock.
Teach-in button does not flash when pressed. Lock has no energy	Lock is not charged via induction. Door gap too large Transmitter and receiver unit not at the same height	Correcting the door fit via the hinges (5.1) Adjustment of the induction transmitter unit, reduction of the door gap and/or height adjustment (5.3)
The secondary locking devices do not trigger or the "Locked" message is not issued.	The release magnets are missing.	Insert the release magnets into the strikers/locking bar.
	The chamber size is too large.	Correct the chamber dimension via the hinges

	The door leaf is too high or too low.	Correct the door fit via the hinges .
The lock is difficult to unlock.	The locking parts are too tightly adjusted.	Readjust or loosen the locking parts15. (5.2)