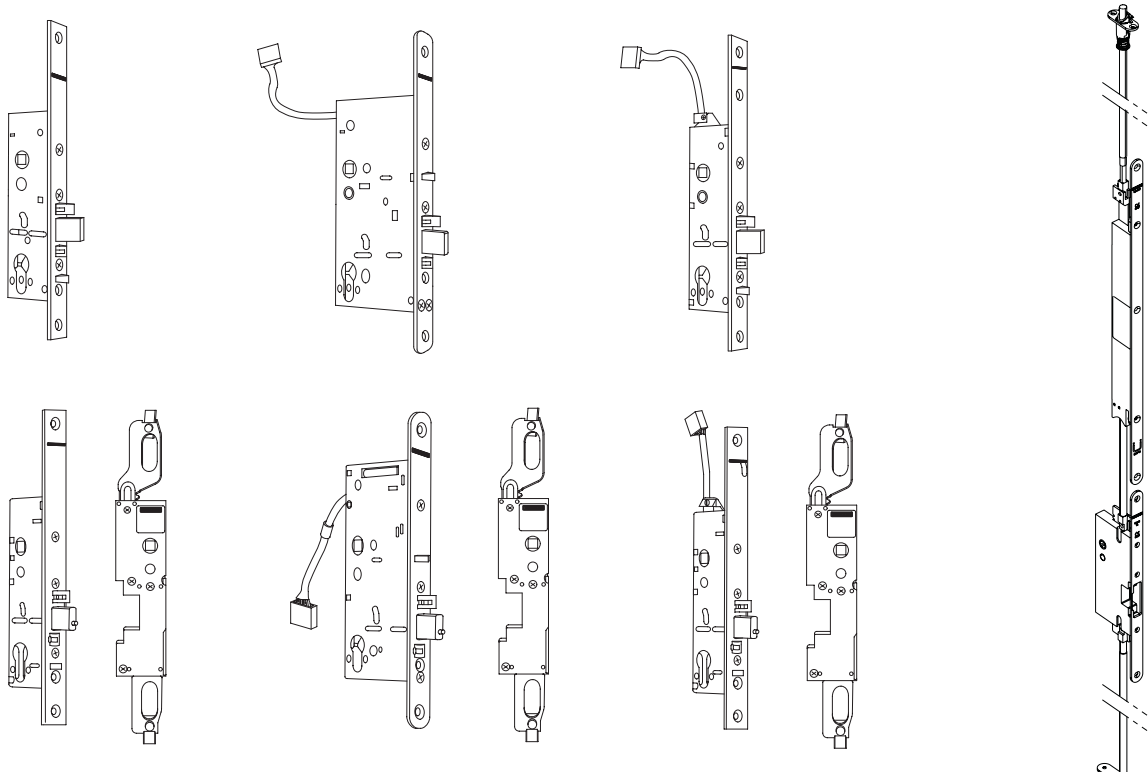




IQ lock – self-locking panic locks for 1- and 2-leaf doors

IQ lock AUT

IQ lock EL / IQ lock EL DL

IQ lock EM / IQ lock EM DL

IQ lock C / IQ lock C DL

IQ lock M / IQ lock M DL

EN Installation manual

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Key to symbols

Important information and technical notes are highlighted to explain correct operation.

Symbol	Meaning
	means "important note"
	means "additional Information"
	Symbol for an action: This means you have to do something.
	only applies for IQ lock for 1-leaf doors
	only applies for IQ lock DL for 2-leaf doors

Product description

Lock type	1-leaf	2-leaf
Electric full-panic motor lock		IQ lock AUT
Electrical motor lock	IQ lock EL	IQ lock EL DL
Electro-mechanical lever lock	IQ lock EM	IQ lock EM DL
Mechanical contact lock	IQ lock C	IQ lock C DL
Mechanical lock	IQ lock M	IQ lock M DL

Product liability

In compliance with the liability of the manufacturer for his products as defined in the German "Product Liability Act", compliance with the information contained in this brochure (product information and intended use, misuse, product performance, product maintenance, obligations to provide information and instructions) must be ensured. Failure to comply releases the manufacturer from his statutory liability.

Abbreviations

VB	Solid leaf	SB	Width of flat face plate
RR	Tubular frame	DM	Backset
SA	Rod spacing	DMA	Backset adapter

1 Safety notes

1.1 Intended use

Self-locking panic locks are components used to lock emergency exit doors/panic exit doors on rescue routes. When self-locking anti-panic locks are used, the technical data and environment conditions of these installation and operating instructions must be taken into account.

The safety features of these products are important for conformity with EN 179 and EN 1125. No modifications of any kind are permitted other than those described in these instructions.



- ▶ Operate the locks only in installation positions typical for locks i.e. vertical with horizontally locking bolt.
- ▶ Always operate the locks in such a way that the panic function works in the direction of escape.

- ▶ Use these locks on emergency exit doors in accordance with EN 179 and panic exit doors in accordance with EN 1125 only in connection with the officially approved sliding door fittings (see certificates for consistency of performance, chapter 7).

The self-locking panic locks are suitable for use on single- and double-leaf panic doors.



- They are not designated for use on double-action doors.
- Use in transport technology (pedestrian traffic and transport of goods by road, rail, air and water) must be agreed with the manufacturer.



The product should be installed or incorporated in such a way that effortless access to the product is guaranteed during any repairs and/or maintenance, and that any removal costs do not stand out of proportion to the value of the product.



Trouble-free functioning of the locks is only ensured if a carry bar and a door closer system in accordance with EN 1158 with closing sequence control are mounted.



- Before mounting the emergency exit locks ensure that the door is fitted properly and not distorted in any way.
- ▶ Install the emergency exit locks only in hollow doors that are designed for this purpose by the manufacturer.

The horizontal bar must be mounted in such a way that the greatest possible effective bar length is achieved.

- ▶ Avoid safety risks during the installation of emergency exit devices with handle operation (in particular in case of doors with graded surfaces: jamming of fingers or clothes).
- ▶ If necessary, adapt installation to the majority of the users:
 - Installation height for children smaller than 900–1000 mm
 - Door closer installation in such a way that children, elderly or impaired persons are not impeded

Only devices conforming to standard may be used for keeping emergency exit and panic exit doors closed. Only spring-supported door handles may be used.



In conformity with the specifications of German building regulation laws, a lock of the VS-type A in accordance with EN 179 or EN 1125 (lock only for 1-leaf doors) can also be used in the active leaf of a 2-leaf door if:

- a) the passive leaf lock is secured against incorrect operation and
- b) the passage width of the active leaf is sufficient for an escape route.

1.2 Technical safety

- Improper installation and maintenance work or repairs can lead to significant hazards for the user. Installation and maintenance work or repairs may only be carried out by GEZE and their authorised specialists.
- Damage to GEZE IQ locks can endanger your safety. Check them for visible signs of damage. Never put a damaged lock into operation.
- Warranty claims will be rendered invalid if the lock is not repaired by GEZE or an authorised GEZE service partner.
- GEZE only guarantees that safety requirements are met if genuine GEZE spare parts are used. Faulty components may only be replaced by genuine parts.
- GEZE self-locking panic locks must not be opened.

1.3 Safety-conscious working

Work on the electrical equipment (IQ AUT, IQ lock EL, IQ lock EL DL, IQ lock EM, IQ lock EM DL, IQ lock C, IQ lock C DL) may only be performed by a qualified electrician. For further information see "Instructions for electrical connection and putting into service", ID no. 156328.

Locks may only be installed by a specialist from the respective trade (locksmith, carpenter etc.).

Only genuine GEZE spare parts or accessories approved by GEZE may be used.

Please contact GEZE for information about the later connection of further accessory parts.



- Remove the lock before drilling the fixing points for the sliding door fittings.
- Do not put any greases, lubricants or oils in the lock. Avoid water penetrating the lock case or the formation of condensation.
- Only use lubricants approved by GEZE for lubricating the outer parts (bolt, latch), see chapter 1.4.
- Never paint or varnish over the lock face plate or any other parts of the locks.
- Remove the lock before doing any painting work.
- The handle pin must not be forced through the lock follower.
- The door leaf must not be carried by the handle.

1.4 Cleaning and care

GEZE self-locking panic locks may only be oiled or greased using lubricants approved by GEZE.

Lubricant	Manufacturer	Comment
Klübersynth LI 44-22	Klüber Lubrication	Slightly wet cross latches/control latches and bolts
Fin Lube TF	Interflon	Spray onto the cross latches/control latches and bolt from the outside

1.5 Accessories

GEZE self-locking panic locks may only be used with the accessories prescribed by GEZE.

- ▶ Only use genuine GEZE accessories.
- If other parts are attached or installed, any warranty, guarantee and/or product liability claims will be rendered invalid.

1.6 Assembly and installation

Some safety rules must always be observed during fitting and installation of the self-locking GEZE panic locks. These must be noted and followed, since the device can otherwise be damaged and result in hazards for the user:



- ▶ When installing the locks, make sure you following building regulations and any specifications issued by the door manufacturer.
- The lock must not be modified in any way.
- Lock and original strike plate (1-leaf) as well as lock and original strike box (2-leaf) form one unit. Perfect function is only possible in combination.
- If installation is faulty or improper, all manufacturer guarantee and liability claims will be rendered invalid.

1.7 Use of motor locks IQ lock EL/IQ lock EL DL on fire and smoke protection doors

GEZE motor locks, IQ lock EL for 1-leaf and IQ lock EL DL for 2-leaf fire and smoke protection doors may be used in all modes of operation (permanently unlocked, secured by day, night mode).

It must be guaranteed that in the event of a fire in the case of the modes of operation "permanently unlocked" and "secured by day" the electrical activation of the lock is no longer possible, the lock can no longer be unlocked and the cross latch and bolt engage securely in the strike plate at all times.

In order to interrupt this electrical activation in case of a fire, permissible fire detectors with trigger mechanisms, in accordance with the DIBt guideline, must be employed for hold-open systems.

When motor locks are used on fire and smoke protection doors, three different installation situations can occur. The following chapters must be heeded in this case.

1.7.1 Release via on-site fire alarm system

Connection of an on-site fire alarm system (BMA) to the motor lock control (MST 210).

This connection is implemented via the "smoke detector" input especially provided. A zero-potential or non-isolated contact is required for that by the BMA.

The planning of the installation of the smoke detectors is implemented on-site. It should be pointed out that when motor locks are used, smoke detectors in accordance with the above-mentioned guideline must be fitted.



- Smoke development on both sides of the door must be identified by the BMA.

1.7.2 Release via trigger mechanism of hold-open systems

In accordance with the DIBt guideline for hold-open systems, the following is necessary, taking account of the difference for the use of the "permanently unlocked" and "secured by day" modes of operation described:

Ceiling height above lintel lower edge ≤ 1 m

2 ceiling-mounted detectors are required



Deviation from DIBt guideline:

The installation of only one lintel-mounted detector is not authorised in this case, since the fire can only be detected on one side if the door is closed.

Ceiling height above lintel lower edge > 1 m

2 ceiling-mounted detectors and 1 lintel-mounted detector are required. This corresponds to 2 ceiling-mounted detectors and 1 smoke control unit.

The smoke control unit (RSZ 5 and RSZ 6, includes power supply + 1 lintel-mounted detector) is connected directly to the MST in accordance with wiring diagram.

1.7.3 Motor lock in "night mode" mode of operation

The motor lock is used in "night mode" mode of operation only. In the "night mode" mode of operation, the automatic bolt projection of 20 mm is implemented every time the door is closed. The GEZE access control, for example, regulates controlled admission. In this case, the bolt is retracted and the door can be passed through against the direction of escape.

With the motor lock control MST 210, different release times can be set using a DIP switch.

Setting of the release time

Opening time "x" = 1 s

Setting options for release time:

Switch	Switch position	Release time
1	ON	x + 1 s
2	ON	(x) + 2 s
3	ON	(x) + 5 s
4	ON	(x) + 10 s

Example:

Set release time = 9 s



In order to ensure that the lock locks itself mechanically (especially for fire protection), the hold-open time must not exceed 4 seconds. For this reason only switches 1 and 2 may be active in case of the DIP switch.

In the case of fire protection doors it must be ensured that the door does not burst open due to the seal pressure.

2 Your contribution to environmental protection

- When disposing of the self-locking panic locks, separate the different materials and have them recycled.
- Legal regulations must be observed during the disposal of self-locking panic locks.
- GEZE self-locking panic locks are certified with the Environmental Product Declaration according to ISO 14025 from the Institut Bauen und Umwelt e.V. (*Institute for Construction and the Environment*). This statement of approval describes the specific environmental performance of the IQ locks and confirms that the GEZE lock family promotes environmentally friendly and healthy construction work.

3 Functions and properties

3.1 Overview of functions

Function / property	IQ lock AUT *	IQ lock EL/ EL DL	IQ lock EM/ EM DL	IQ lock C/ C DL	IQ lock M/ M DL
Panic function	☑	☑	☑	☑	☑
Mechanical self-locking	☑	☑	☑	☑	☑
Electrical timeout function	☑	☑	–	–	–
Statement of approval for emergency exits	☑	☑	☑	☑	☑
Statement of approval for fire protection doors	☑	☑	☑	☑	☑
Resistance Class (RC) 3	–	IQ lock EL	IQ lock EM	IQ lock C	IQ lock M
Secured by day with electric strike function	☑ **	☑ **	–	–	–
Motor-driven unlocking	☑	☑	–	–	–
Permanently unlocked	☑	☑	–	–	–
Outside handle, can be electrically engaged	–	–	☑	–	–
Automatic locking mechanism in the event of a power failure	☑ ***	☑	–	–	–
Automatic resetting of the release if door is not opened	☑	☑	–	–	–
Input for fire alarm system (locking)	☑	☑	–	–	–
Unlocking by key	☑ ****	☑	☑	☑	☑
Operating voltage	24 V	12–24 V	12 V, 24 V, 48 V	–	–
Feedback contacts for lock states	☑	☑	☑	☑	–
Optional sabotage monitoring or cylinder contact	☑	☑	☑	☑	–
Can be used on the left and right	☑	☑	–	☑	☑
Same installation dimensions for all IQ locks	☑ *****	☑	☑	☑	☑
Backset 35, 40, 45, 55, 60, 65, 70, 80, 100	☑	☑	☑	☑	☑
Distance 72, 74, 78, 92, 94	☑	☑	☑	☑	☑
9 mm handle follower					
▫ continuous	☑	☑	–	☑	☑
▫ divided	–	–	☑	–	–
Tested to EN 1125	☑	☑	☑	☑	☑
Tested to EN 179	☑	☑	☑	☑	☑
Tested to EN 1634	☑	☑	☑	☑	☑
VdS-approval	–	IQ lock EL	IQ lock EM	IQ lock C	IQ lock M

☑ available

– not possible

* Rod drive IQ AUT and IQ lock EL DL = IQ lock AUT

** Active leaf for IQ lock DL

*** In conjunction with an IO 420 and an emergency power buffer

**** Unlocking via active leaf

***** IQ AUT 42 × 400 × 15.5 mm

3.2 Explanation of terms, functions and properties

Panic function

The lock can be unlocked at any time by pressing the door handle/panic bar in the direction of escape.

Door fittings

According to EN 179 or EN 1125 the door fittings must be tested together with the lock. Tested door fittings can be found in the certificates for consistency of performance at www.geze.com/geze/downloads.

Mechanical re-locking

The two cross latches are latched by activating the auxiliary latch.

Locking of the two cross latches only takes place after this has engaged and positioned itself in the strike plate.

Crossbar projection only takes place after the cross latch has been positioned in the strike plate.

Electrical timeout function

During release time, manipulation attempts on the auxiliary latch by the control are ignored and the crossbar remains retracted.

After the set release time has expired, the bolt is extended when the auxiliary latch is activated. The control detects the manipulation attempt by the check on the door position and the motor retracts the bolt again.

Secured by day with electric strike function

In adjustable daytime operation (see commissioning and connection manual ID no. 156328), the crossbar remains retracted even when the door has closed and the two cross latches are locked in place.

The door cannot be passed from the outside, from the inside escape is possible at all times through the panic function.

In connection with access control, for example, shortest possible opening times well under one second are now achieved, which has only been possible with electric strikes before.

Exception: In the event of a fire the door is completely locked. The motor lock control unit is activated directly by the fire alarm system in this case (see chapter 1.7).

Permanently unlocked

In addition to automatic re-locking (mode of operation night mode) and secured daytime operation (mode of operation secured by day), a third mode of operation is possible – permanently unlocked (see commissioning and connection manual ID no. 156328).

Here, the bolt is retracted and the cross latches are unstable. The door can be pulled or pushed open at any time by hand.

Exception: In the event of a fire the door is locked completely after the door leaf has closed.

The motor lock control unit is activated directly by the fire alarm system in this case.

Outside handle, electrically engaged

When the supply voltage is applied to the lock, the outside handle is engaged and remains engaged as long as current is flowing (fail-secure principle).

As soon as the voltage supply stops, the outside handle is disabled and the door can no longer be opened using the handle. The panic function is retained.



Thanks to the exchange function integrated in all our locks, the lock can be opened using the matching key (e.g. by the fire brigade).

Automatic locking mechanism in the event of a power failure

In the event of a power failure, the motor is activated via the capacitor integrated in the control unit in such a way that the slide bolt in the lock can move to the “night mode” position. This automatically pre-closes the bolt when the door is closed.

If the door is still open at this point, the bolt projection is controlled via the auxiliary latch when the door is closed.

Input for fire alarm system

The automatic locking mechanism of the motor lock in the event of a fire is activated via the input for the fire alarm system on the motor lock control unit.

This takes place automatically no matter which mode of operation is selected (night mode, secured by day or permanently unlocked).

Feedback contacts for lock states:

Number and type of messages as well as the maximum load of the switching contacts can be found in the commissioning and connection manual ID no. 156328.

Sabotage monitoring

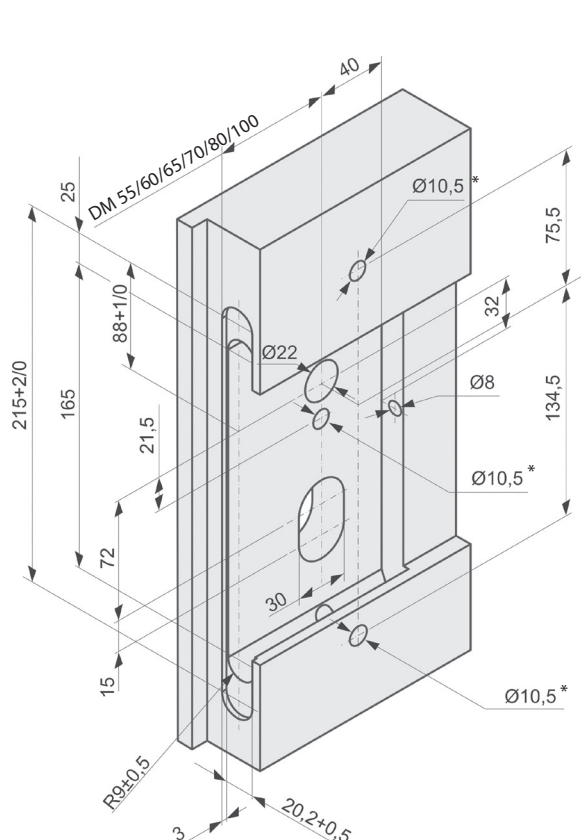
The power supply cable is monitored to check for interruptions in the cable. In addition, the cover of the motor lock control can be integrated in the monitoring process by means of a cover lift-off contact.

4 Installation

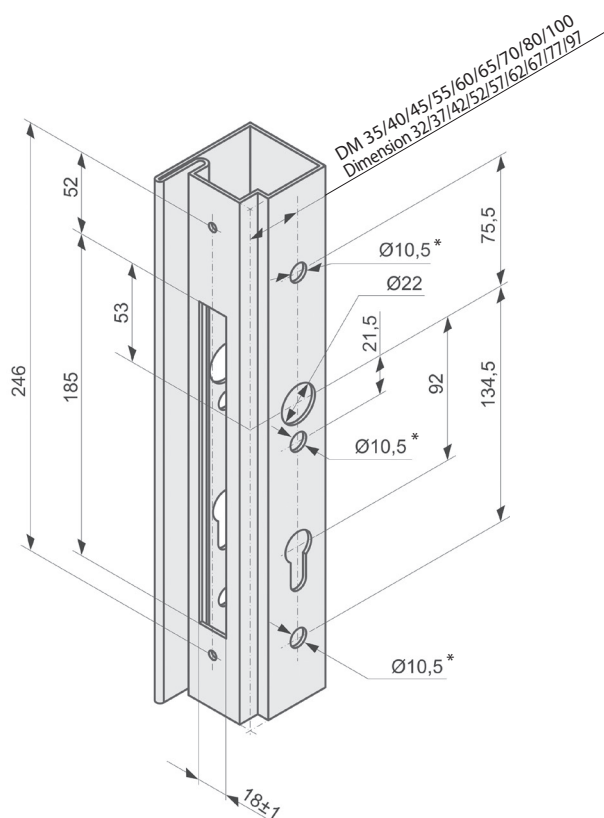
4.1 Lock for 1-leaf and 2-leaf doors (door / active leaf)



- ▶ All installation work must be carried out by a specialist.
 - Electrical installation by a qualified electrician
 - Mechanical installation e.g. by the door manufacturer, metalworker or carpenter
- ▶ Make sure that the door cannot close or be closed during installation, since the door can only be opened from the outside by key during the construction phase. Holding the door open with the crossbar extended is not permissible!
- During work on the door leaf e.g. drilling and milling, the lock must be removed from the door leaf.
- The recess in the lock pocket must be carried out in compliance with the dimensional drawing below.
- The pocket must be dimensioned in such a way that the lock can be inserted easily and screwed to the door leaf without tension in the bracket.



Recess solid leaf (wooden door)



Recess tubular frame (metal door)

* Preparation for installation long plate.

4.2 Cable routing for IQ AUT, IQ lock EL, IQ lock EM and IQ lock C



- ▶ When shortening the power supply cable, consider that a longer power supply cable may be required for installing and removing the lock. We recommend a minimum of 15 cm in addition in order to release and insert the plug without any problems.
- ▶ Make sure that the drip loop has an interior diameter of at least 10 mm and that the length corresponds to the degree of opening of the door. We recommend GEZE drip loops.

Cable loops for inspection



- ▶ Note the dimensions of the coupling connector.
- ▶ Round off the corners and edges round which the cable has to be routed to prevent damage to the cable.

With solid leaf doors, the cable exit for the GEZE IQ lock EL/EM/C is horizontal to the rear. This results in the depth of the recess from the dimension for the lock box depth plus approx. 25 mm for a cable loop.

With tubular-framed doors, the cable exit for the GEZE IQ lock EL/EM/C is vertically upwards. In this case, the cable loop must be pushed into a suitable profile chamber.

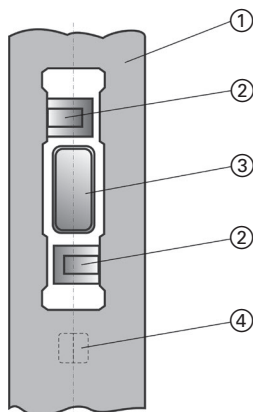
Cable routing

The power supply cable for GEZE panic locks must be pulled from the lock side to the hinge side in the door leaf. The following points must be heeded:

- ▶ If possible, lay an empty pipe with an inner diameter of at least 10 mm in the door leaf for the cable.
- ▶ Establish the transition from the door leaf to the frame using a flexible drip loop.
- ▶ Use the enclosed attachment material to connect the drip loop firmly to the door leaf and the door frame.

4.3 Strike plate (frame)

There is a suitable strike plate tested in accordance with EN 179 and EN 1125 enclosed with every lock. For cut-outs in door frames on doors which are not subject to these standards, please note the following information.



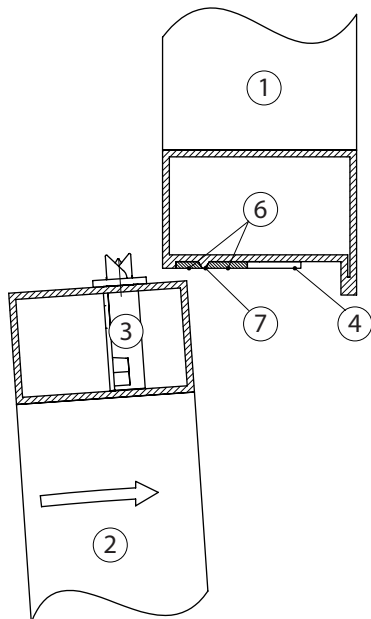
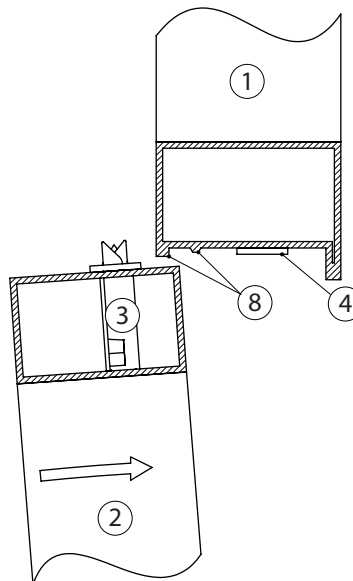
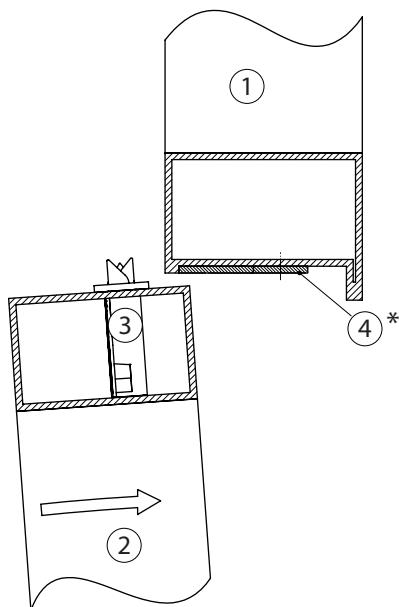
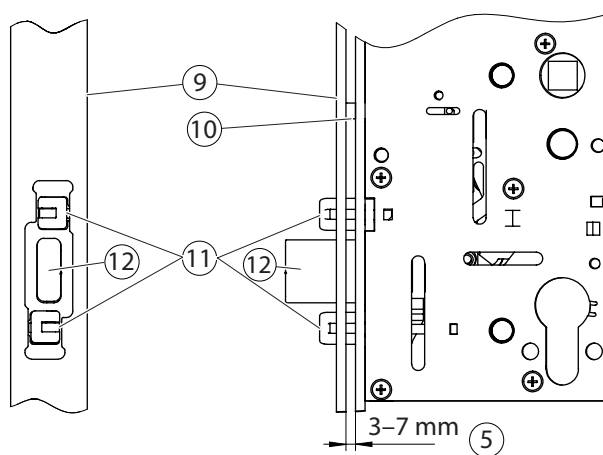
- | | |
|---|-----------------|
| 1 | Strike plate |
| 2 | Cross latch |
| 3 | Crossbar |
| 4 | Auxiliary latch |

- Lock latch and auxiliary latch of the lock must be activated from the same reference edge.
- The distance between the strike plate and the flat face plate must be between 3 mm and 7 mm.
- Lock latch and auxiliary latch must be able to slide over a level surface without obstacle into the closing position when the door closes:
 - Any profile ribs or profile grooves must be compensated by the strike plate.
- There must not be any holes, indentations or unevenness in the entry area of the auxiliary catch:
- ▶ When mounting the strike plate ensure that the auxiliary catch cannot latch into the recess for the cross latch/crossbar.



Special strike plates on request

4.3.1 Installation note

Correctly installed strike plate**Incorrectly installed strike plate****Solution with special strike plate****Position of the cross latches and crossbars in the strike plate**

- 1 Door frame
- 2 Door
- 3 IQ lock
- 4 Strike plate
- 5 Clearance 3-7 mm
- 6 Cavities in the profile must be filled
- 7 Ensure entry areas are level

- 8 Lock does not enter
process function not guaranteed
- 9 Strike plate
- 10 Control latch
- 11 Cross latches
- 12 Crossbar (must run freely)

* lipped strike plate that can be shortened (strike plate that can be shortened in width)



- The clearance must be 3-7 mm between flat face plate and strike plate when the door is closed
- Entry edges must be rounded
- Make sure the cross latches move into place evenly

4.4 Strike box (passive leaf 2-leaf)

For every lock, there is a matching strike box which is approved in accordance with EN 179 and EN 1125. A corresponding face plate can also be selected.



The designation of the flat face plate depends on the DIN direction of the passive leaf.

Example:

If the active leaf of a double-leaf door is DIN right, the passive leaf is DIN left. This means that the end of the face plate that can be shortened faces left when the mounted flat face plate is viewed in the passive leaf.

► State the DIN direction of the passive leaf correctly when ordering.

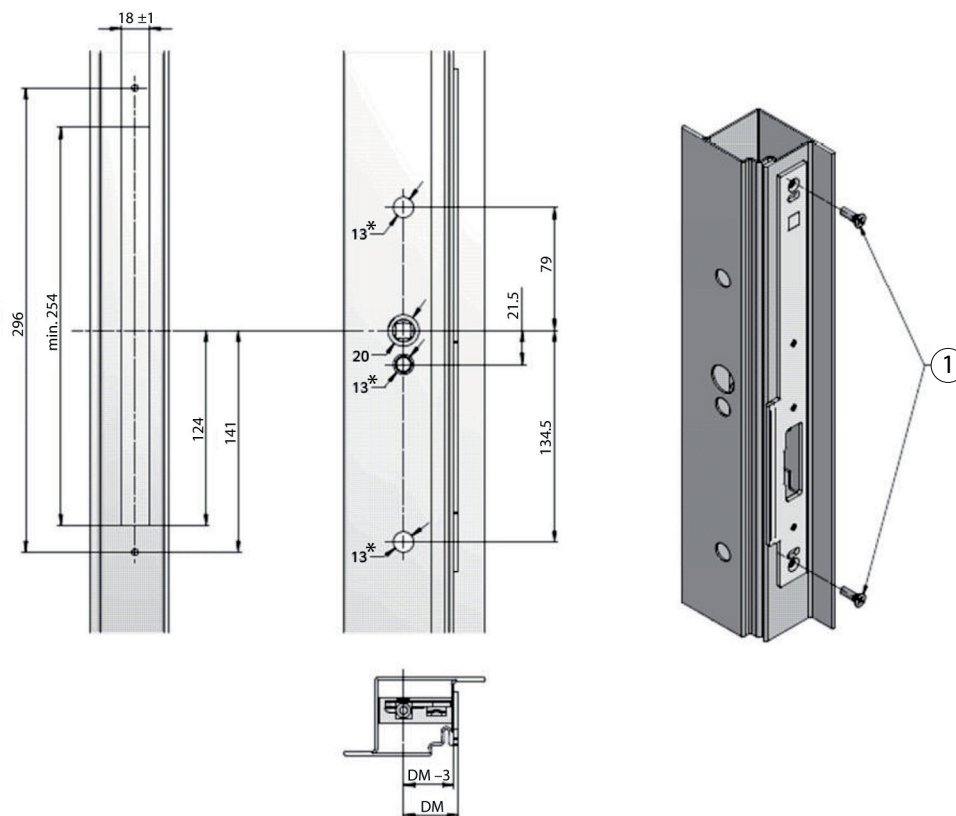
- Lock latch and auxiliary latch of the lock must be activated from the same reference edge.
- The distance between the strike box and the flat face plate must be between 3 mm and 7 mm.
- Lock latch and auxiliary latch must be able to slide over a level surface without obstacle into the closing position when the door closes:
 - Any profile ribs or profile grooves must be compensated.
- There must not be any holes, indentations or unevenness in the entry area of the auxiliary catch:



► When mounting the strike box ensure that the auxiliary catch cannot latch into the recess for the cross latch/crossbar.

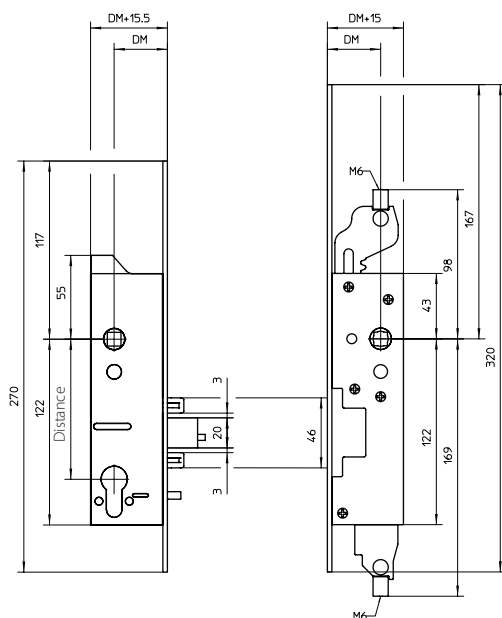
- When mounting the flat face plate on the strike box, tighten the M4 × 6 screws with a maximum torque of 1.4 Nm.
- Following removal and repeated mounting of the flat face plate on the strike box, tighten Securing of screws using a threadlocker (also applicable when supports are used).

4.4.1 Installation dimensions tubular frame

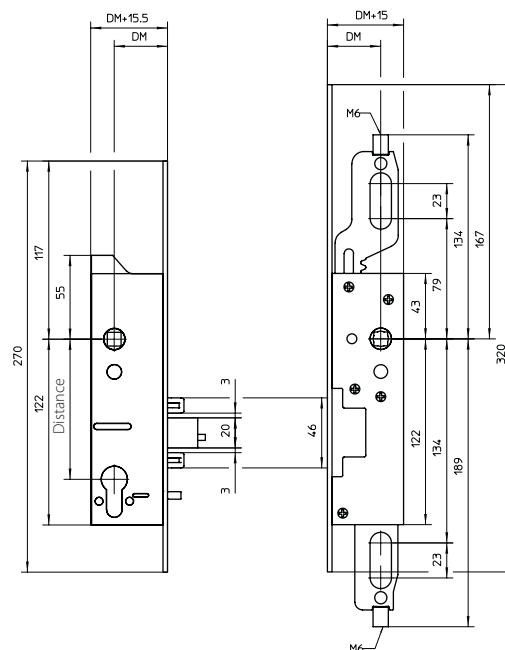


1 M5 × max. 16 mm, tightening torque 3.1 Nm

* Preparation for installation long plate

For tubular-framed doors

Strike box tubular frame doors, short

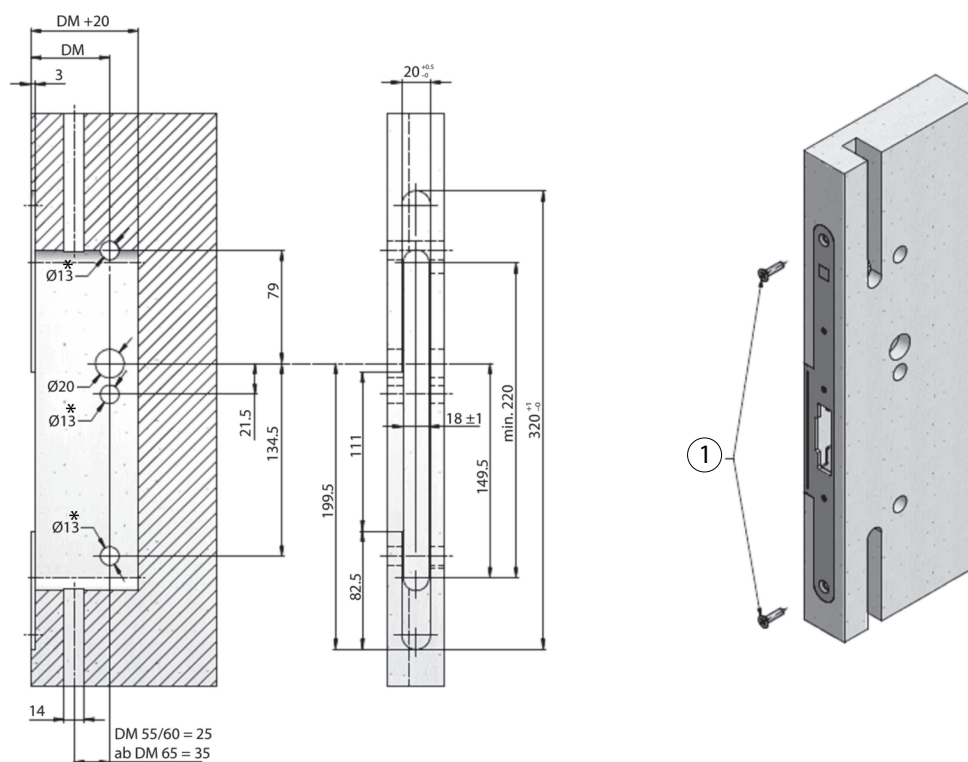


Long tubular frame strike box



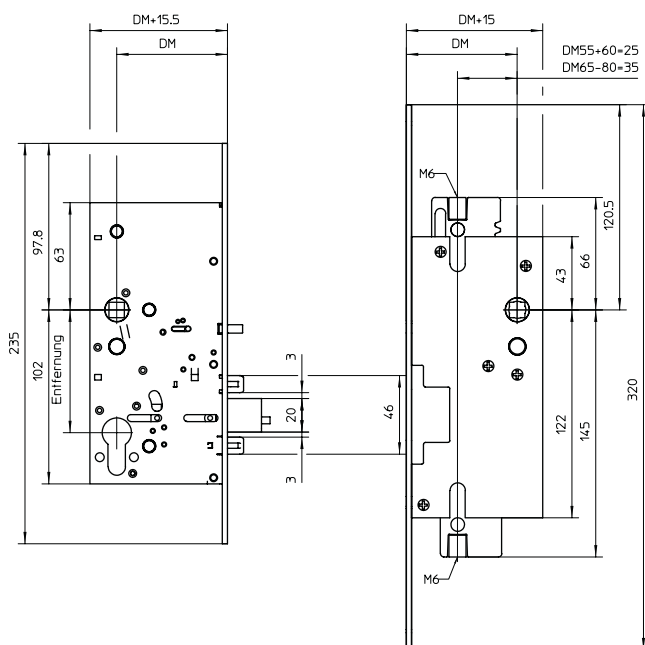
► For all accessory variants for IQ lock DL for 2-leaf tubular-framed doors see chapter 4.6.2.

4.4.2 Installation dimensions solid leaf



1 Countersink screw M5 × max. 20 mm

* Preparation for installation long plate

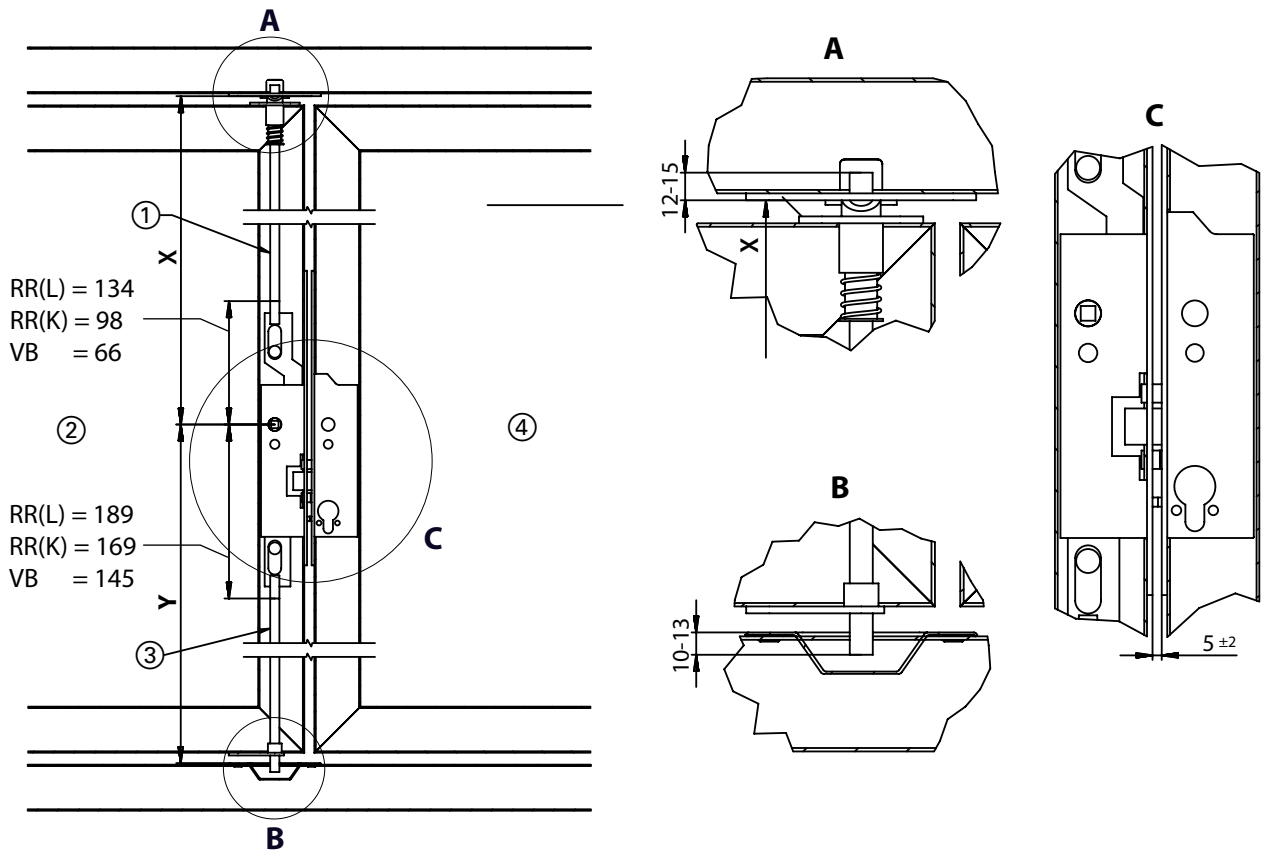
For solid leaf doors

Solid leaf strike box



► For all accessory variants for IQ lock DL for 2-leaf solid leaf doors see chapter 4.6.2.

4.4.3 Cut rods to length (without rod drive IQ AUT)



- 1 Tube top
- 2 Passive leaf
- 3 Rod bottom
- 4 Active leaf
- RR Type of door: Tubular frame
- VB Type of door: Solid leaf doors
- (L) Strike box long
- (K) Strike box short

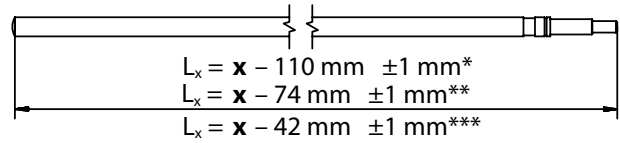
Cutting the round rod at the top to size



The equations are **not** applicable for rod drive IQ AUT.

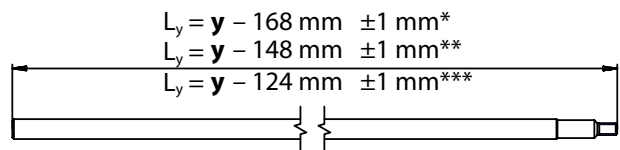
Determine the distance **x** (see the drawing):

- Top lock lipped strike plate (top) to centre of handle mandrel
- ▶ Calculating the rod length:
 - Tubular frame (long strike box): $L_x = x - 110 \text{ mm}$
 - Tubular frame (short strike box): $L_x = x - 74 \text{ mm}$
 - Solid leaf: $L_x = x - 42 \text{ mm}$
- ▶ Cut the rod to the calculated length L_x .



Shortening the round rod at the bottom

- ▶ Determine the distance **y** (see the drawing):
 - Bottom closing recess to centre of handle mandrel
- ▶ Calculating the rod length:
 - Tubular frame (long strike box): $L_y = y - 168 \text{ mm}$
 - Tubular frame (short strike box): $L_y = y - 148 \text{ mm}$
 - Solid leaf: $L_y = y - 124 \text{ mm}$
- ▶ Cut the rod to the calculated length L_y .

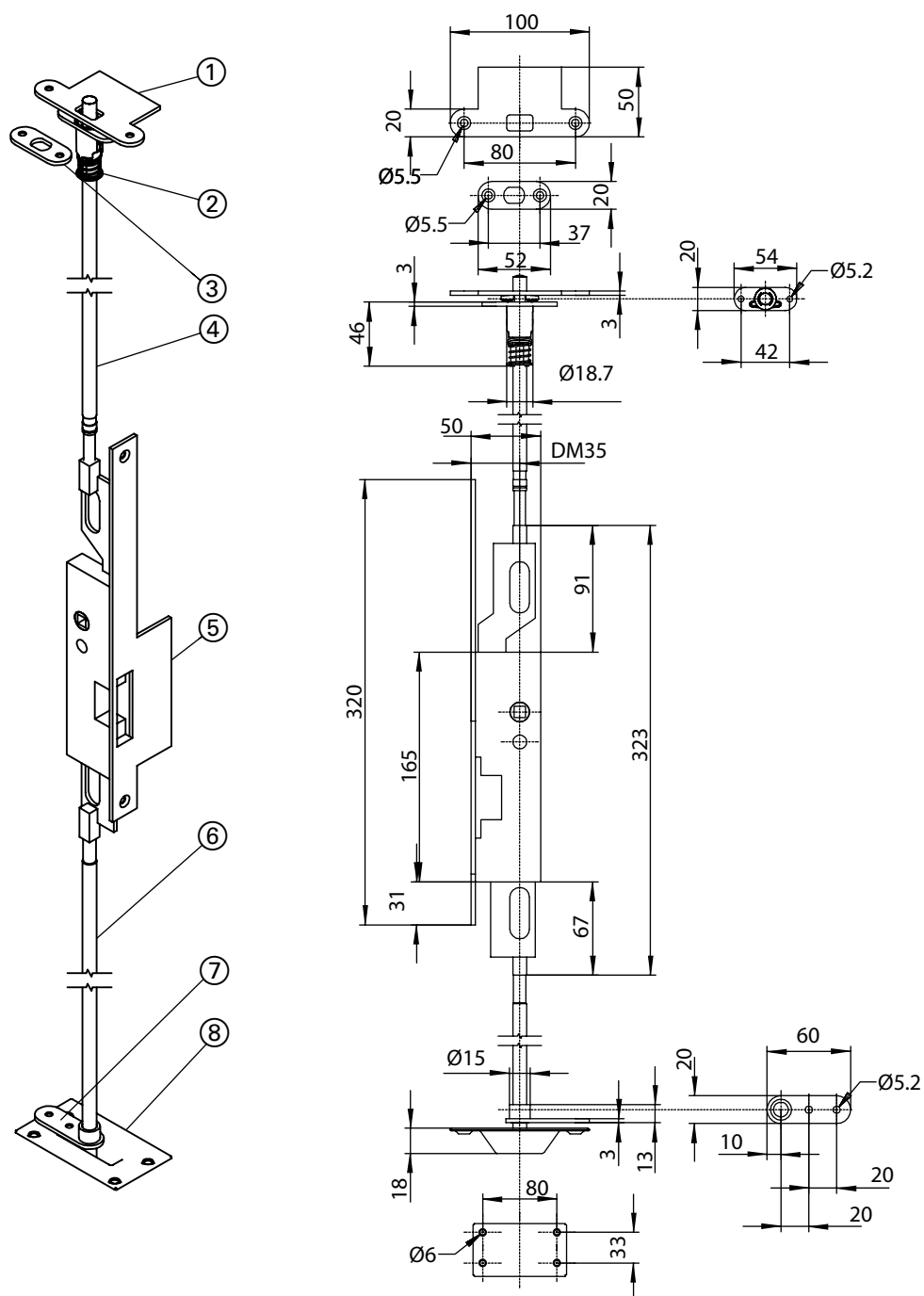


- * Tubular frame (long strike box)
- ** Tubular frame (short strike box)
- *** Solid leaf



If a planet rod is used in place of a round rod, care must always be taken that it projects 20 mm beyond the planet rod guide. Otherwise the planet rod may be lifted too far when the strike box is actuated and become caught in the door. The strike box can then no longer lock.

4.4.4 Accessories in assembly



- 1 Lipped strike plate top (ID no. 133920)
- 2 Top lock top (ID no. 133922)
- 3 Strike plate top (ID no. 133921)*
- 4 Round rod top (ID no. 133917)
- 5 Flanged face plate (DIN right, steel, ID no. 133909)
- 6 Round rod bottom (ID no. 133916)
- 7 Rod guide (ID no. 133918)
- 8 Bottom closing recess (ID no. 133919)

* With the strike plate make sure that the round rod can be supported in the wood. The lipped strike plate should be preferred.

4.4.5 Adapting the gap clearance

Determine the gap clearance with doors closed (flat face plate - flat face plate)

- ▶ Depending on the gap clearance, determine the position in which the escutcheon plate must be installed:
 - 3-5 mm: Fit cover cap in accordance with figure 1 (rotated 180° in relation to delivery condition)
 - ≥ 5 mm: Cover cap fitted in accordance with figure 2. This corresponds to the delivery condition.

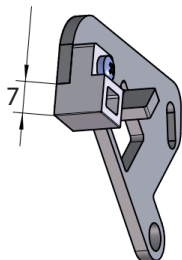


Figure 1

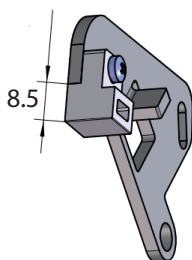
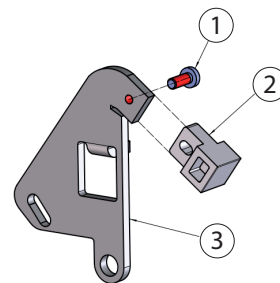


Figure 2

The following steps are only necessary for a gap < 5 mm:

- ▶ Remove the screw (1).
- ▶ Remove the slider plate (2).
- ▶ Turn the escutcheon plate through 180°.
- ▶ Fit the escutcheon plate on the face plate (3) and secure and fix the screw with threadlocker.
- ▶ Test the function of the passive leaf in operation (locking of the rods, panic function with both leaves)



- | | |
|---|--------------|
| 1 | Screw |
| 2 | Slider plate |
| 3 | Face plate |

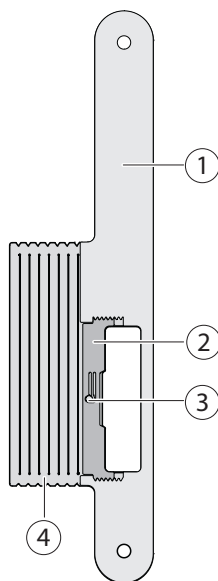


- ▶ Observe the length and torque of the mounting screws and the screws for the strike box.
- ▶ Only one spacer plate (ID no. 133913) may be used.
- ▶ Adjust the escutcheon plate for complete installation of the strike box.
The escutcheon plate can no longer be removed after the strike box has been installed in the door. For this reason, use the clearance in accordance with installation/door drawing.

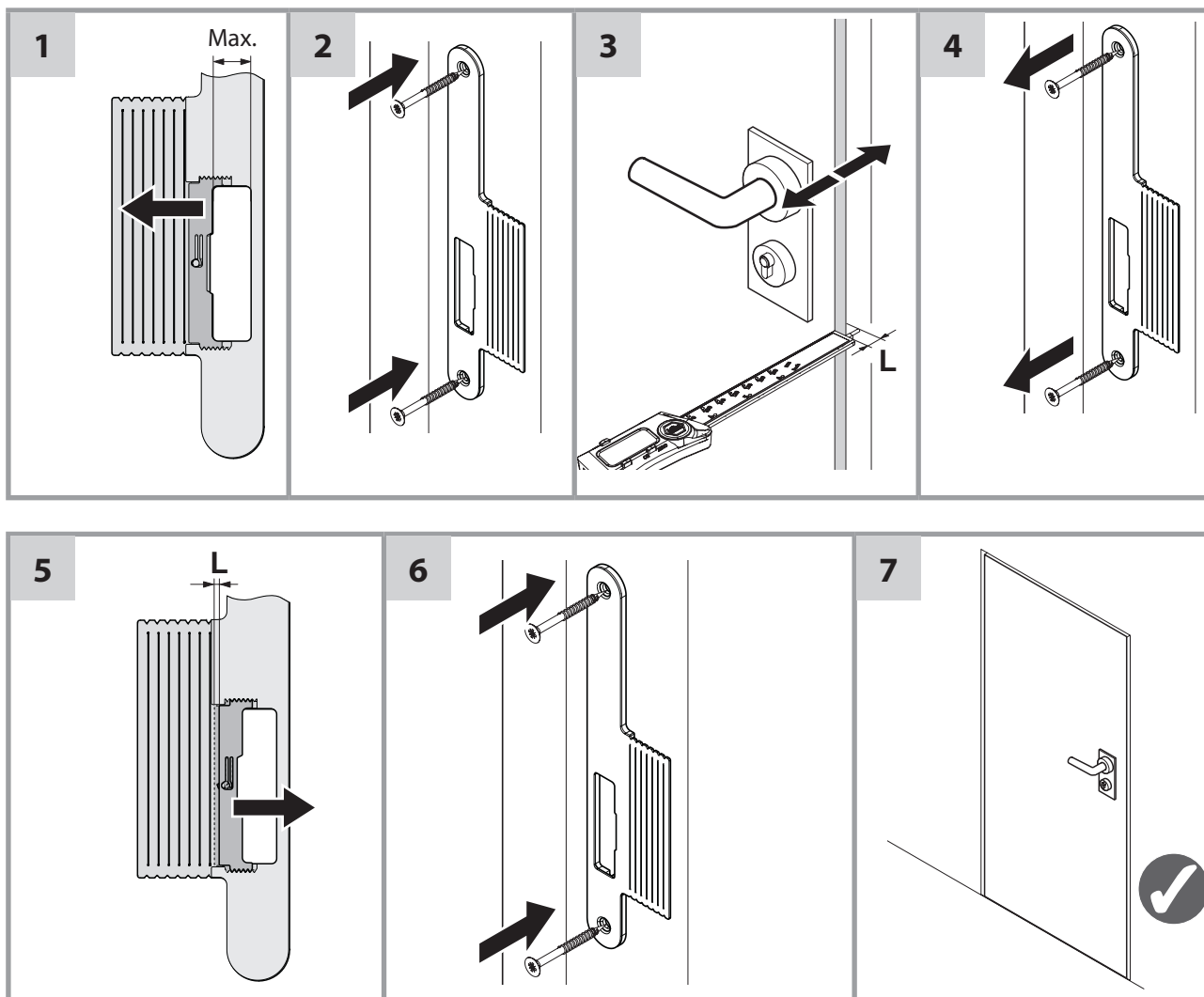
4.4.6 Mounting the adjustable strike plate

Components

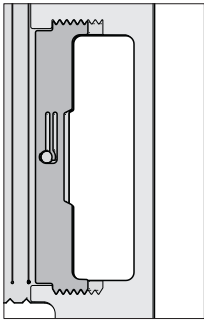
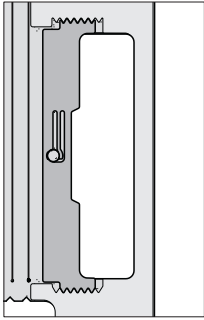
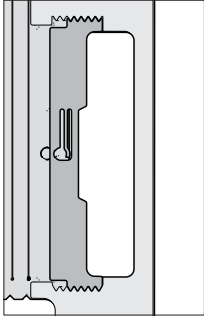
- 1 Support
- 2 Adjustable insert
- 3 Magnet
- 4 Strike plate

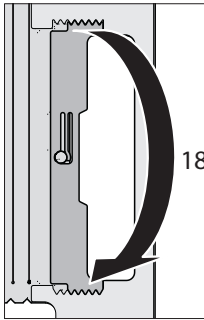
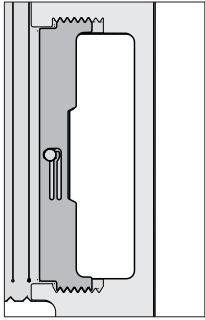
**Description**

With the adjustable strike plate, a door can be adjusted so that it fits into the frame without clearance when closed. The insert (2) can be adjusted in 0.8 mm steps and is held on the strike plate (4) by the magnet (3).

Installing the adjustable strike plate

Adjustment range latch cut-out

	Adjustment L [mm]	Latch cut-out [mm]
	0	14.7 (max.)
	1.6	13.1
	3.2	11.5

	Adjustment L [mm]	Latch cut-out [mm]
	0.8	13.9
	2.4	12.3

4.5 Rod drive IQ AUT

4.5.1 Preparing the door leaves

Requirement

In order to protect the lock components from falling chips when machining the passive leaf:

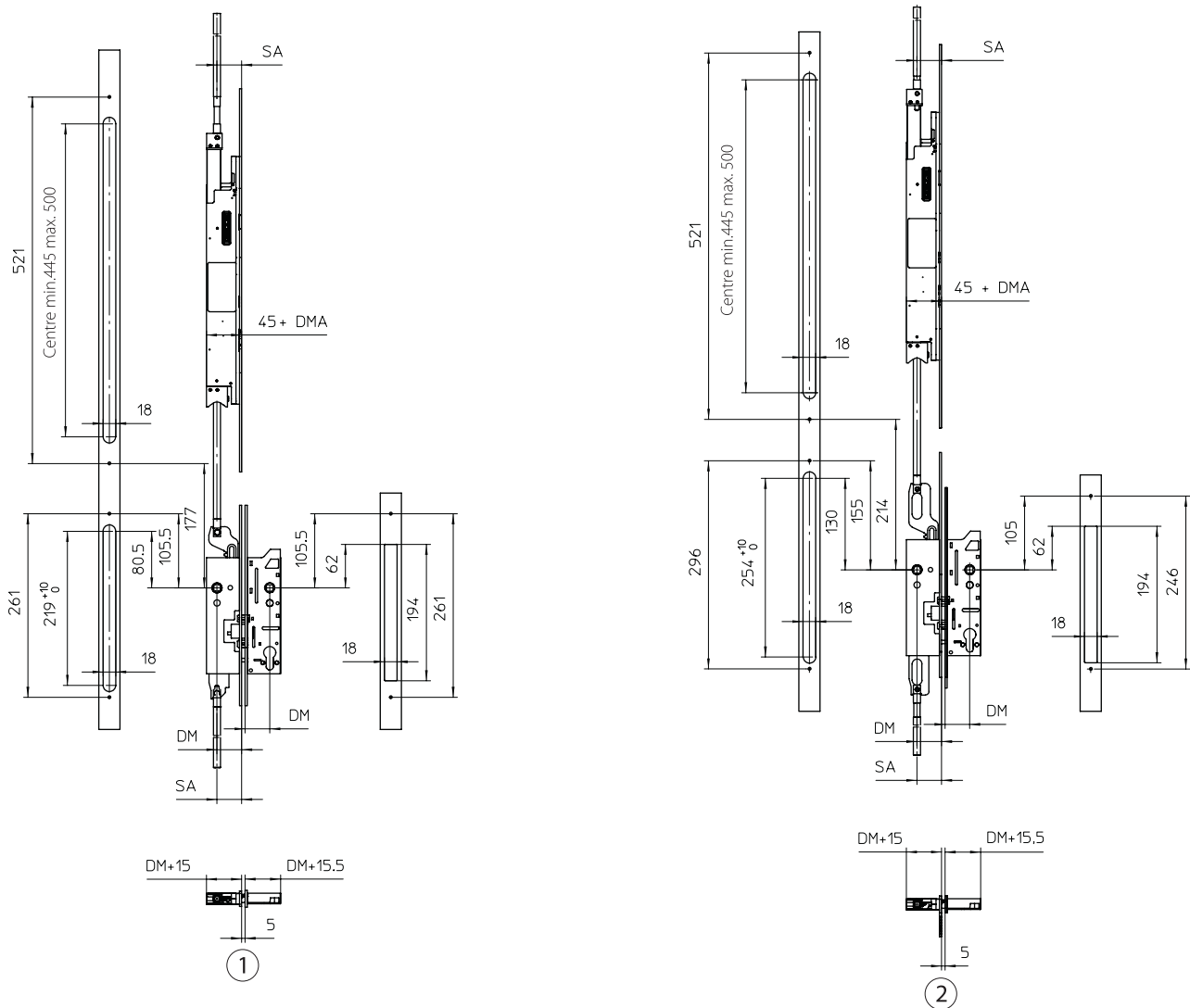
- Remove the strike box as well as the round bar top and bottom.

Recess passive leaf

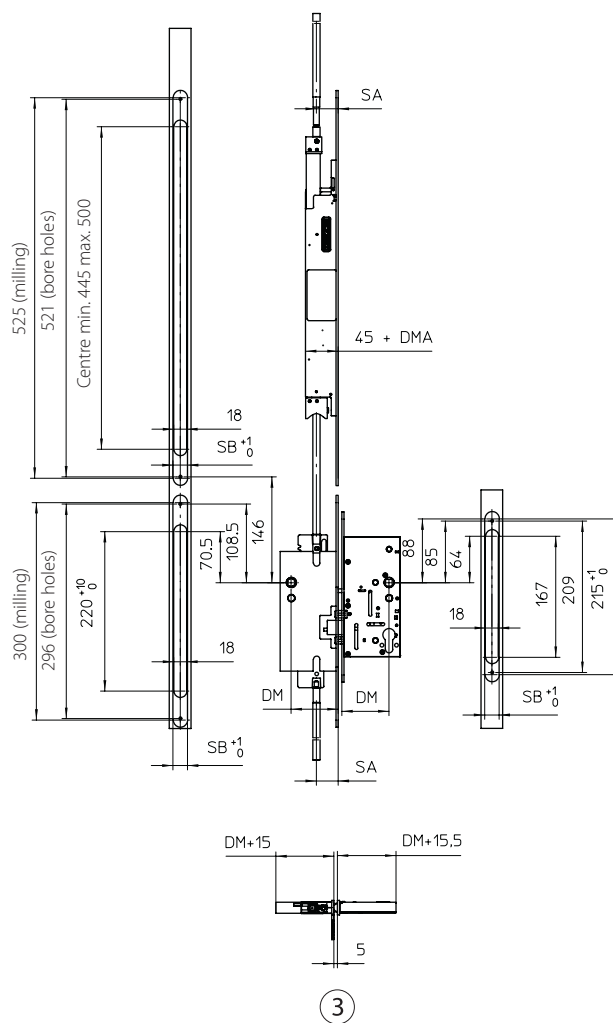


Note the following for the recess of the passive leaf:

- Type of door (tubular frame or solid leaf)
- Use the dimensions and drill spacing shown below in accordance with the type of door.
- Recess dimensions for the flat face plate width on solid leaf.
- Cable routing must be designated for the rod drive IQ AUT.

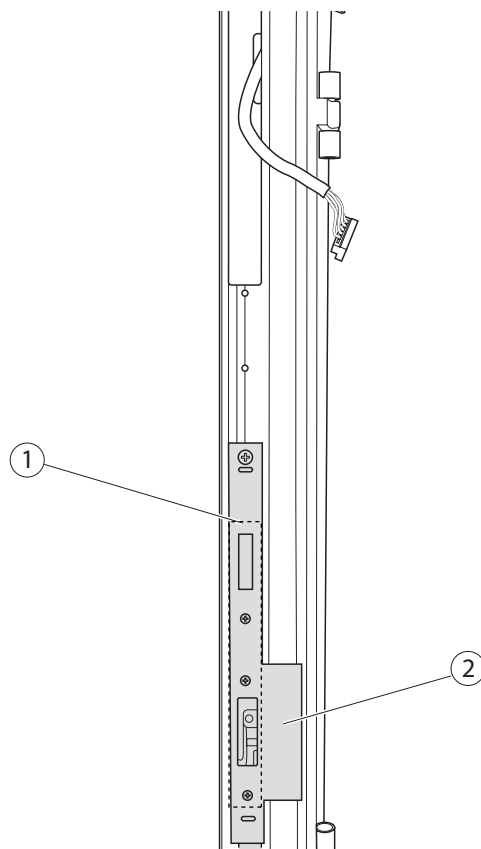


- 1 Recess for type of door: Tubular frame (short strike box)
- 2 Recess for type of door: Tubular frame (long strike box)



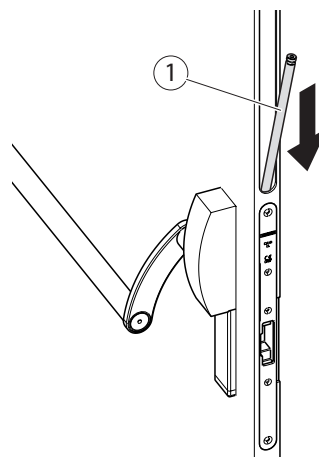
- 3 Recess for type of door: Solid leaf
(depth of recess according to
backset)

- Install strike box (1), flanged face plate strike box (2)
and bottom round rod.

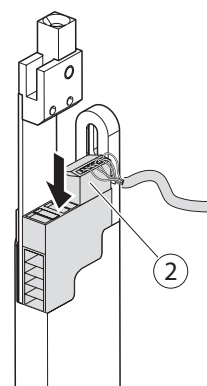


4.5.2 Mounting rod drive IQ AUT

- Insert the driving rod (1) (ID no. 152112) and screw in place.



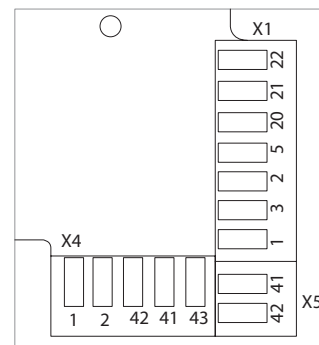
- Wire the cables with connector according to the wiring diagram and connect IQ AUT with the prepared connector (2).



Connections

X1 - connection for power supply device, inputs and outputs

Connection	Wire colour	Signal	Function
x1.1	blue – BU	Power supply	GND in
X1.3	red – RD		24 V (DC in)
X1.2	–		24 V DC
X1.5	brown – BN	Input	Release
X1.20	white – WH	Output 1	Output 1 (locked)
X1.21	grey – GY		Com
X1.22	pink – PK	Output 2	Unlocked
X1.21	grey – GY		Com



Input

A potential-free contact (normally open contact) must be connected to pins X1.2 and X1.5. If the contact is activated, IQ AUT moves to the unlocked position where it remains until the hold-open time has expired. The time starts once the contact has been disconnected.

Output

IQ AUT has two outputs with the potential which is connected to pin X1.21. Output 1 can be adjusted, in factory setting to "Locked" (see Service menu).

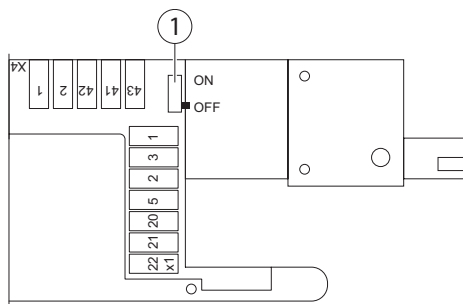
Output 2 "Unlocked" is closed when the drive rod is in the unlocked position.

X5 - connection for GEZE-BUS (e.g.: IO 420)

Connection	Wire colour	Signal	Function
X5.42	yellow – YE	GEZE-BUS	RS485-A
X5.41	green – GN		RS485-B

DIP switch (back of PCB)

- The DIP switch (1) can be used to switch the terminating resistor for RS485 on and off.
- If there are more than two bus devices, the resistance must be switched on in the first and last device.



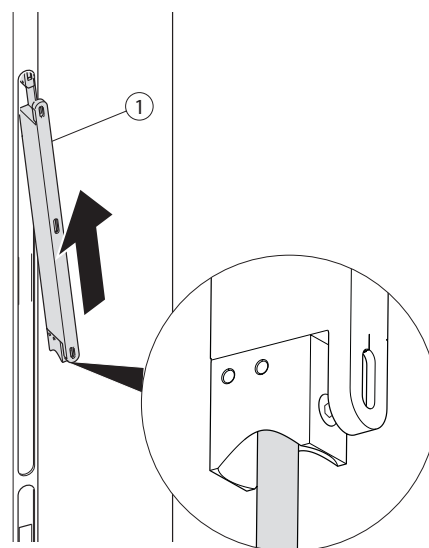
Fitting IQ AUT

- Insert the rod drive IQ AUT (1) into the recess.

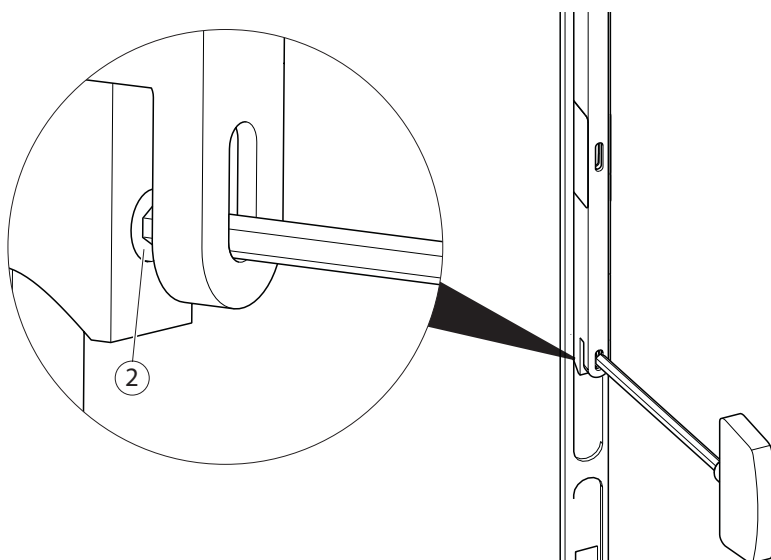


- Make sure that the adapter rod (3) is inserted completely into the funnel.

The adapter rod (3) must be completely flush to the end stop so that the hexagon socket screw (2) can be fixed through the elongated hole.



- Tighten the hexagon socket screw (2) in the funnel through the front elongated hole.



Fitting the backset adapter

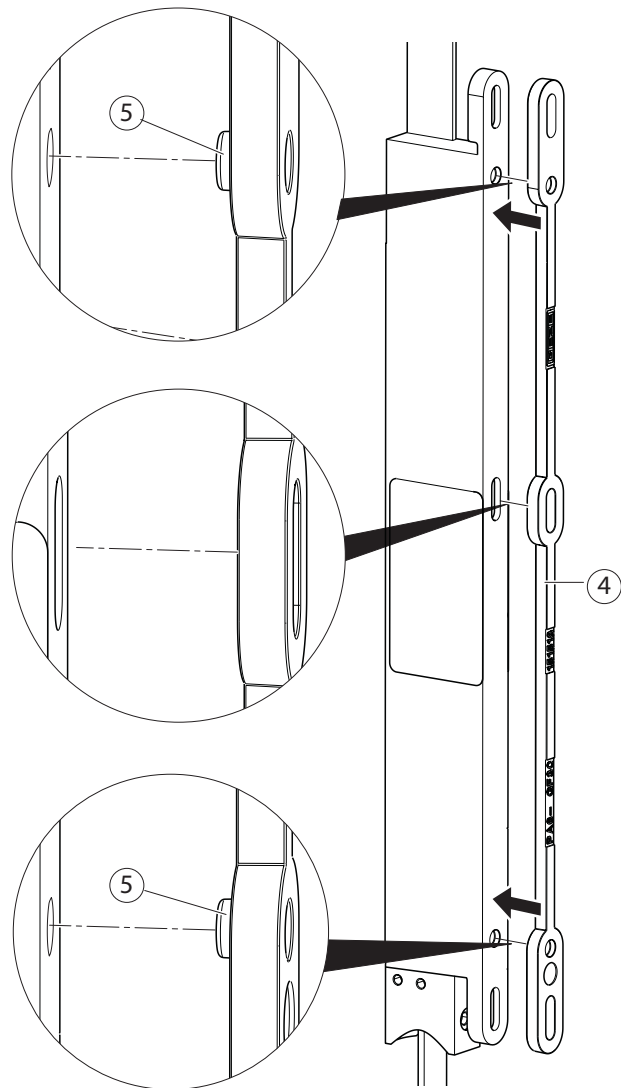
Depending on the backset, a corresponding number of backset adapters (4) must be used (see table).

Tubular frame type of door:

Backset	Number
35	1
40	2
45	3
55	5
60	6
70	8

Solid leaf type of door:

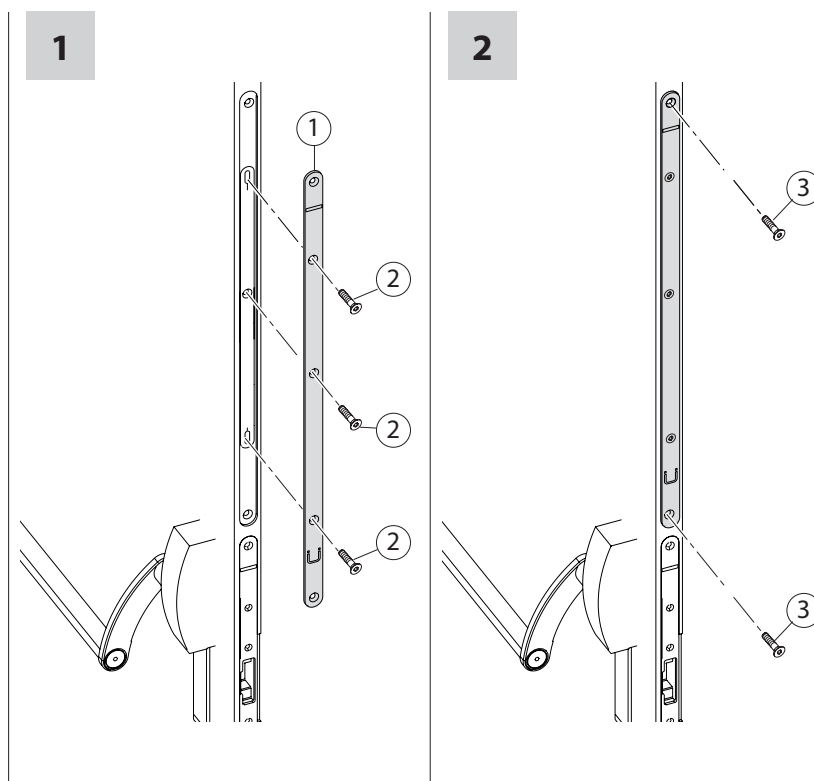
Backset	Number
55	0
60	1
65	0
70	1
80	3
100	7



- ! ► Make sure that the lugs (5) of the backset adapter (4) are completely latched in place.

Mounting the flat face plate

- ▶ Align the flat face plate (1) to IQ AUT.
- ▶ Screw in the three middle screws (2).
Do not tighten the screws yet, since the IQ AUT must be able to move vertically in the elongated holes due to its own weight.
- ▶ Screw two outer screws (3) on the door and tighten them.



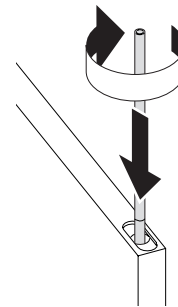
Heed the different screw length depending on the number of backset adapters.

Number of backset adapters	Screw pack (ID no.)	Countersunk screws ISO 10642 A2
0	152717	M5 × 10
1	152718	M5 × 16
2	152719	M5 × 20
3	152720	M5 × 25
5	152721	M5 × 35
6	161997	M5 × 40
7	152722	M5 × 45
8	161998	M5 × 50

Cut the round rod top to size and insert it

▫ The panic door fitting must be activated (unlocked).

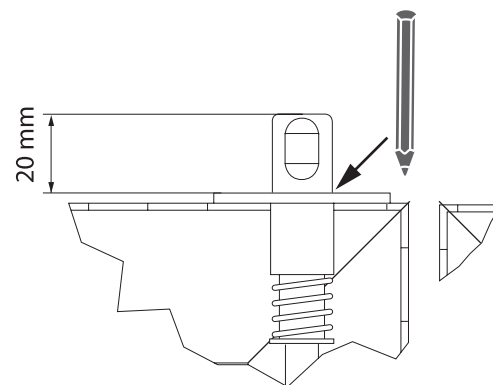
- ▶ If necessary, cut the round rod top roughly to size to be able to insert the round rod top straight into the profile.
- ▶ Screw the round rod top into IQ AUT.
- ▶ Mount the top lock.



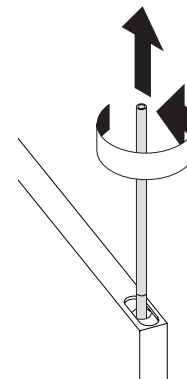
- ▶ Mark the round rod top for correct length (mark in unlocked state directly above the flat face plate top lock).

Illustration on the right in locked state after cutting to length.

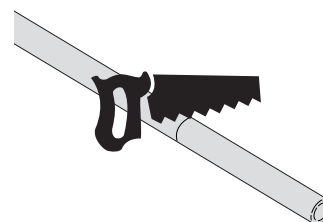
20 mm with plastic plug (projection approx. 5 mm).



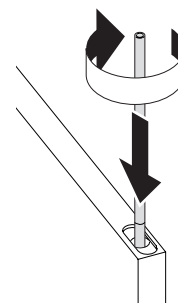
- ▶ Screw the round rod top out of the profile again.



- ▶ Shorten the round rod top to the marking and insert plug into the upper round rod top.



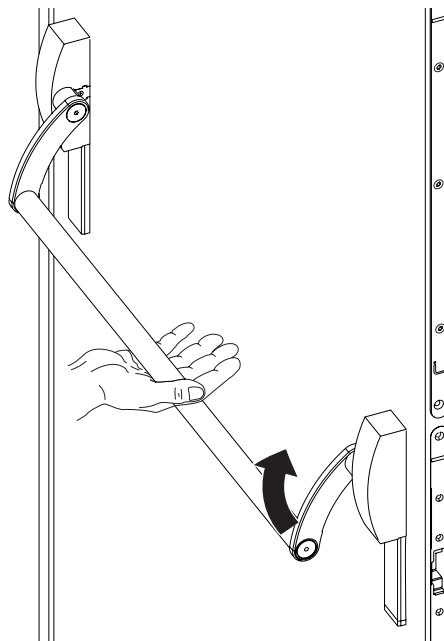
- ▶ Screw the round rod top back in.



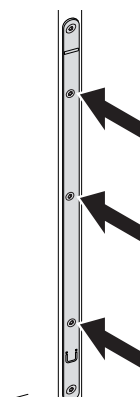
- ▶ Close door.
- ▶ Allow the panic door fitting to lock in the frame and move to end stop position.



- The panic door fitting must not be activated (locked).



- ▶ Tighten the three middle screws.

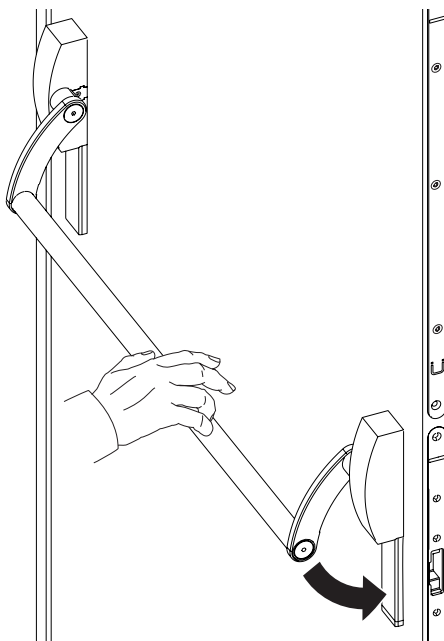


Final check

- ▶ Push the panic bar down.



- ▶ Make sure that the panic door fitting unlocks and locks safely (see chapter 6 Maintenance).

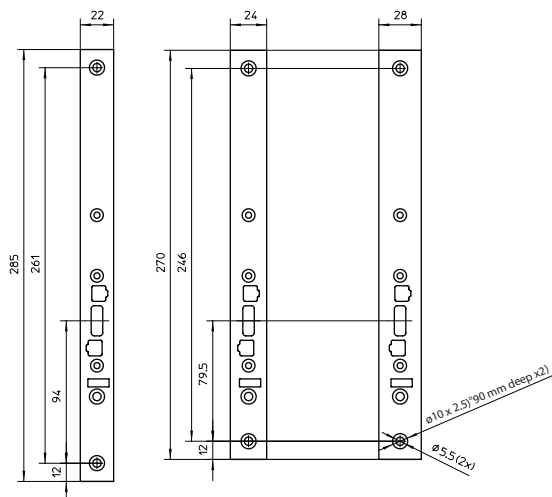


4.6 Accessories

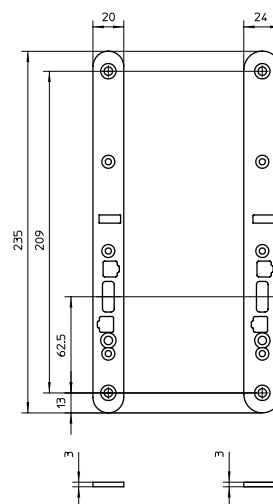
4.6.1 IQ lock 1-leaf

Flat face plate lock (door leaf)

Product description	Type of door	Description (DIN direction, W × H × D)
Flat face plate	RR	DIN left/right, 22 × 285 × 3 mm
Flat face plate	RR	DIN left/right, 24 × 270 × 3 mm
Flat face plate	RR	DIN left/right, 28 × 270 × 3 mm
Flat face plate	VB	DIN left/right, 20 × 235 × 3 mm
Flat face plate	VB	DIN left/right, 24 × 235 × 3 mm



Flat face plate (tubular frame)



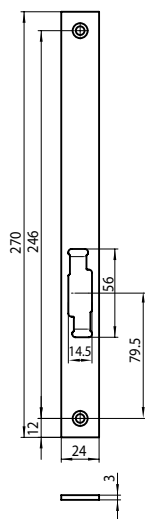
Flat face plate (solid leaf)



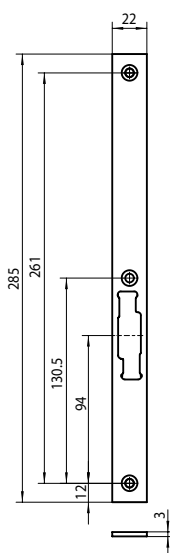
Configurable using ID no. 187045.

Strike plates (frame)

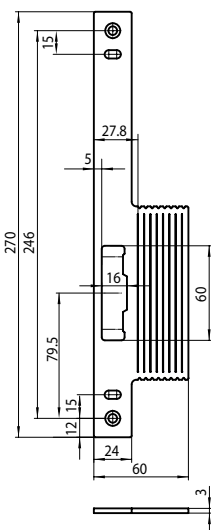
ID no.	Product description	Type of door	Description (DIN direction, W × H × D)
103656	Strike plate	RR	DIN left/right, 24 × 270 × 3 mm (standard scope of supply with distance 92)
161953	Strike plate	RR	DIN left/right, 22 × 285 × 3 mm
122626	Lipped strike plate, can be shortened	RR	DIN left, 24 × 270 × 3 mm
125201	Lipped strike plate, can be shortened	RR	DIN right, 24 × 270 × 3 mm
168588	Lipped strike plate, adjustable	RR	DIN left, 24 × 270 × 4 mm
168587	Lipped strike plate, adjustable	RR	DIN right, 24 × 270 × 4 mm
122628	U strike plate	RR	DIN left/right, 49 × 270 × 9 mm
103657	Angled strike plate, short	VB	DIN left/right, 20 × 235 × 8 mm (standard scope of supply with distance 72)
122627	Angled strike plate, long	VB	DIN left/right, 20 × 270 × 20 mm
103658	Lipped strike plate	VB	DIN left/right, 50 × 235 × 3 mm
139167	Lipped strike plate, can be shortened	VB	DIN left, 20 × 235 × 3 mm
139166	Lipped strike plate, can be shortened	VB	DIN right, 20 × 235 × 3 mm
169758	Lipped strike plate, adjustable	VB	DIN left, 20 × 235 × 4 mm
166757	Lipped strike plate, adjustable	VB	DIN right, 20 × 235 × 4 mm
168678	Lipped strike plate, adjustable	VB	DIN left, 24 × 235 × 4 mm
168589	Lipped strike plate, adjustable	VB	DIN right, 24 × 235 × 4 mm
148822	Lipped strike plate	VB	DIN left/right, 50 × 235 × 3 mm, FN9-32
148823	Lipped strike plate	VB	DIN right, 27 × 235 × 3 mm, FN9
148824	Lipped strike plate	VB	DIN left, 27 × 235 × 3 mm, FN9
148825	Lipped strike plate	VB	DIN right, 42 × 235 × 3 mm, FN24
148826	Lipped strike plate	VB	DIN left, 42 × 235 × 3 mm, FN24



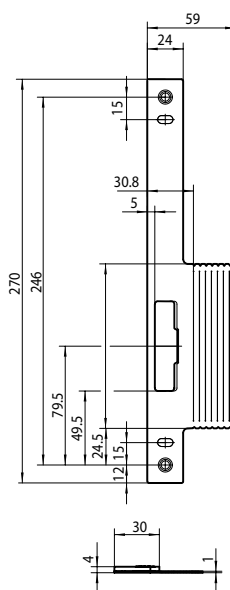
103656



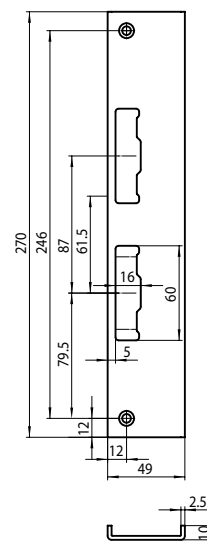
161953



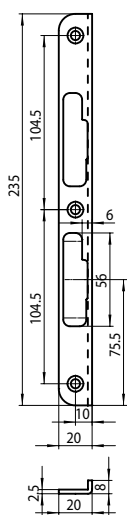
122626 - DIN left
125201 - DIN right



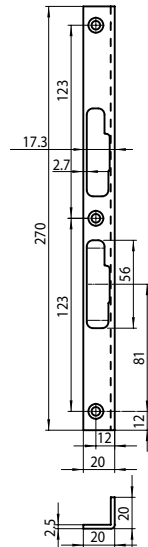
168588 - DIN left
168587 - DIN right



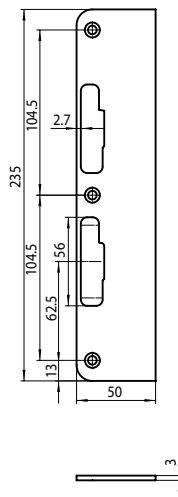
122628



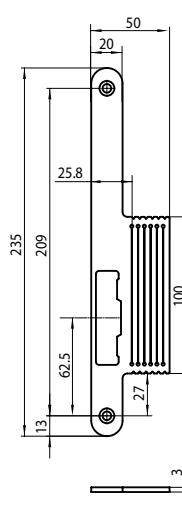
103657



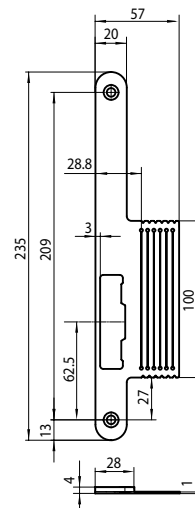
122627



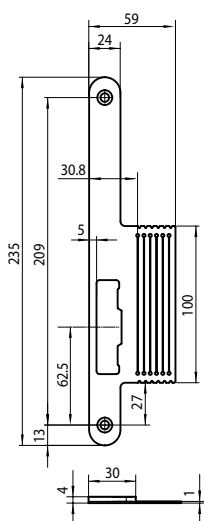
103658



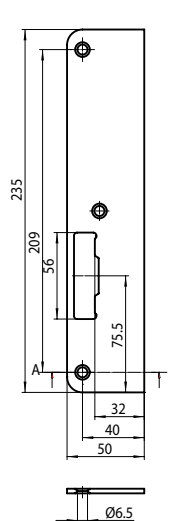
139167 - DIN left
139166 - DIN right



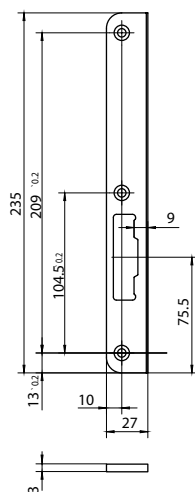
169758 - DIN left
169757 - DIN right



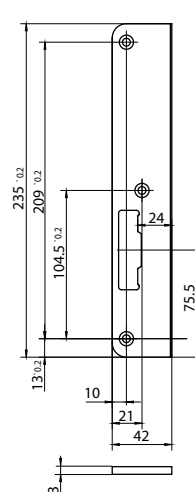
168678 - DIN left
168589 - DIN right



148822



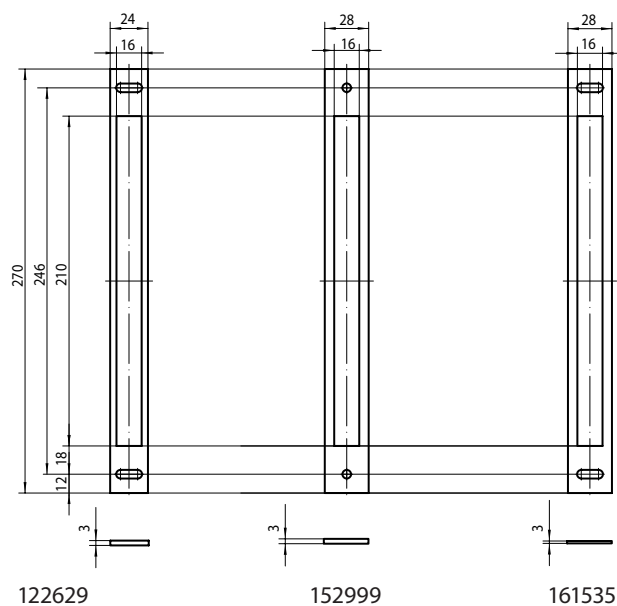
148824 - DIN left
148823 - DIN right



148826 - DIN left
148825 - DIN right

Support lock (door leaf)

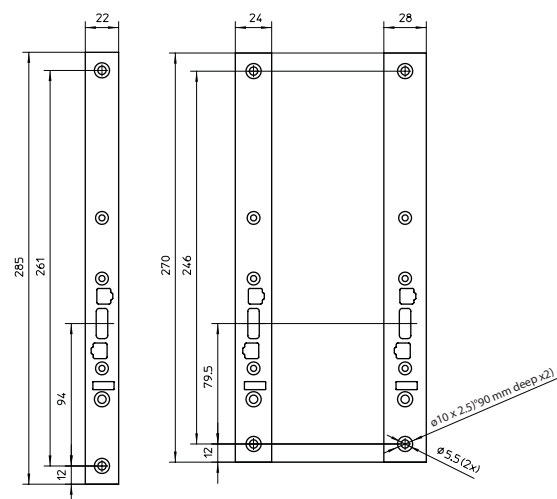
ID no.	Product description	Description (DIN direction, W × H × D)
122629	Support lock	DIN left/right 270 × 24 × 3 mm
152999	Support lock	DIN left/right 270 × 28 × 3 mm
161535	Support lock	DIN left/right 270 × 28 × 1.5 mm



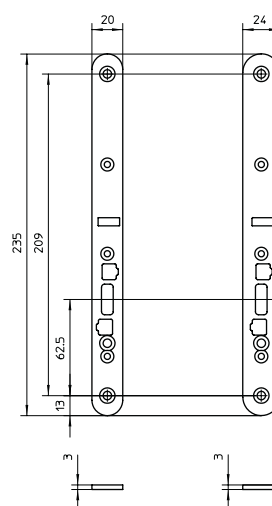
4.6.2 IQ lock DL 2-leaf

Flat face plate lock (active leaf)

Product description	Type of door	Description (DIN direction, W × H × D)
Flat face plate	RR	DIN left/right, 22 × 285 × 3 mm
Flat face plate	RR	DIN left/right, 24 × 270 × 3 mm
Flat face plate	RR	DIN left/right, 28 × 270 × 3 mm
Flat face plate	VB	DIN left/right, 20 × 235 × 3 mm
Flat face plate	VB	DIN left/right, 24 × 235 × 3 mm



Flat face plate (tubular frame)



Flat face plate (solid leaf)

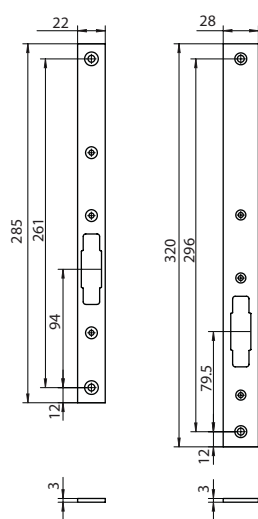


Configurable using ID no. 187045.

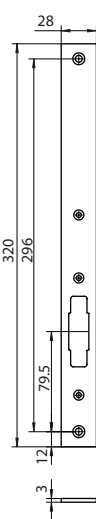
Flat face plate strike box (passive leaf)

In the case of adjustable flanged face plates please note that the screws are coated with a threadlocker when the flat face plate is mounted on the strike box (and following removal for setting the latch cut-out). Setting of the latch cut-out for the adjustable flanged face plate is done in exactly the same way as for the adjustable lipped strike plate (see chapter 4.4.6).

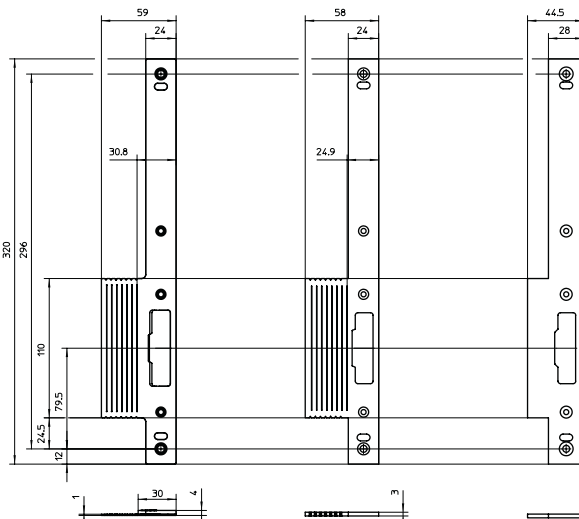
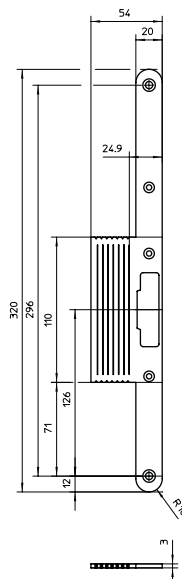
ID no.	Product description	Type of door	Description (DIN direction, W × H × D)
148845	Flat face plate	RR	DIN left/right, 22 × 285 × 3 mm
152998	Flat face plate	RR	DIN left/right, 28 × 320 × 3 mm
168591	Flanged face plate, adjustable	RR	DIN left, 24 × 320 × 4 mm
168590	Flanged face plate, adjustable	RR	DIN right, 24 × 320 × 4 mm
133910	Flanged face plate	RR	DIN left, 24 × 320 × 3 mm
133909	Flanged face plate	RR	DIN right, 24 × 320 × 3 mm
161536	Flanged face plate	RR	DIN left, 28 × 320 × 3 mm
161537	Flanged face plate	RR	DIN right, 28 × 320 × 3 mm
133912	Flanged face plate	VB	DIN left, 20 × 320 × 3 mm
133911	Flanged face plate	VB	DIN right, 20 × 320 × 3 mm
148842	Flanged face plate	VB	DIN left, 25.5 × 320 × 3 mm, FN9
148841	Flanged face plate	VB	DIN right, 25.5 × 320 × 3 mm, FN9
148844	Flanged face plate	VB	DIN left, 40.5 × 320 × 3 mm, FN24
148843	Flanged face plate	VB	DIN right, 40.5 × 320 × 3 mm, FN24
148958	Flanged face plate	VB	DIN left, 24 × 320 × 3 mm
148957	Flanged face plate	VB	DIN right, 24 × 320 × 3 mm
168662	Flanged face plate, adjustable	VB	DIN right, 20 × 320 × 4 mm
168663	Flanged face plate, adjustable	VB	DIN left, 20 × 320 × 4 mm
169759	Flanged face plate, adjustable	VB	DIN right, 24 × 320 × 4 mm
169760	Flanged face plate, adjustable	VB	DIN left, 24 × 320 × 4 mm

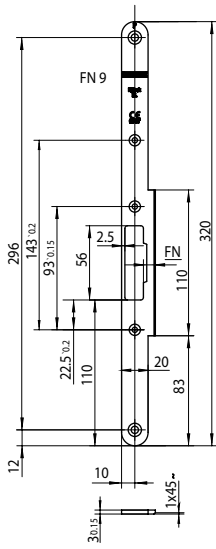


148845

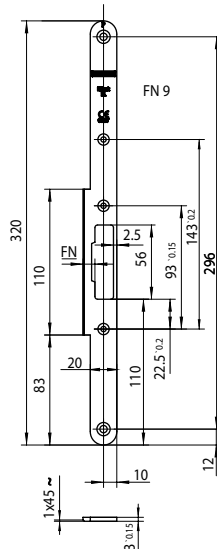


152998

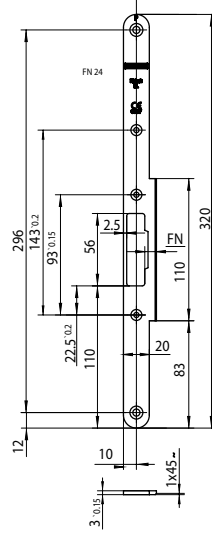
168591 - DIN left
168590 - DIN right133910 - DIN left
133909 - DIN right161536 - DIN left
161537 - DIN right133912 - DIN left
133911 - DIN right



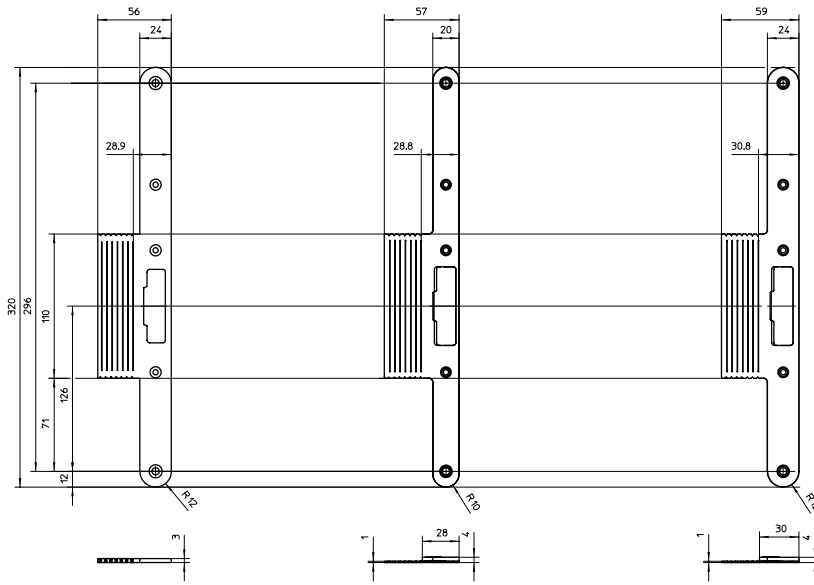
148842 - DIN left



148841 - DIN right



148844 - DIN left
148843 - DIN right



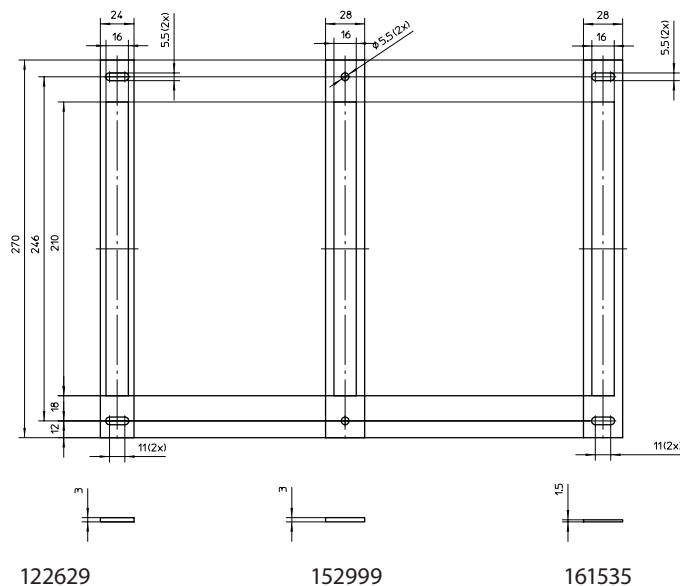
148958 - DIN left
148957 - DIN right

168663 - DIN left
168662 - DIN right

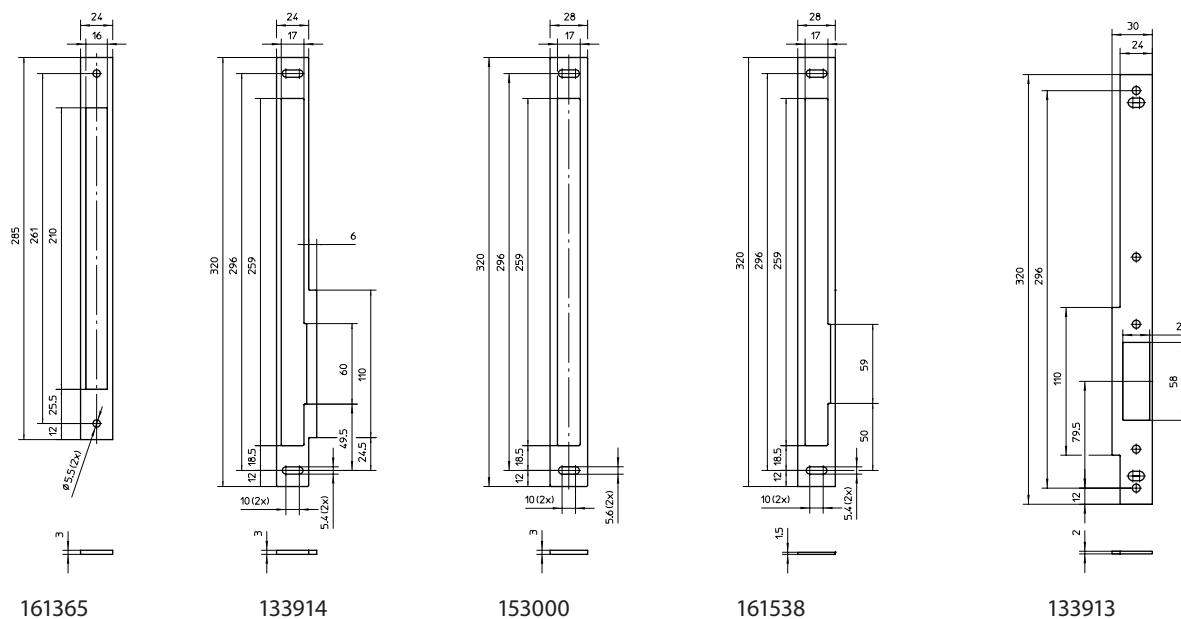
169760 - DIN left
169659 - DIN right

Support lock (active leaf)

ID no.	Product description	Description (DIN direction, W × H × D)
122629	Support lock	DIN left/right 24 × 270 × 3 mm
152999	Support lock	DIN left/right 28 × 270 × 3 mm
161535	Support lock	DIN left/right 24 × 270 × 1.5 mm

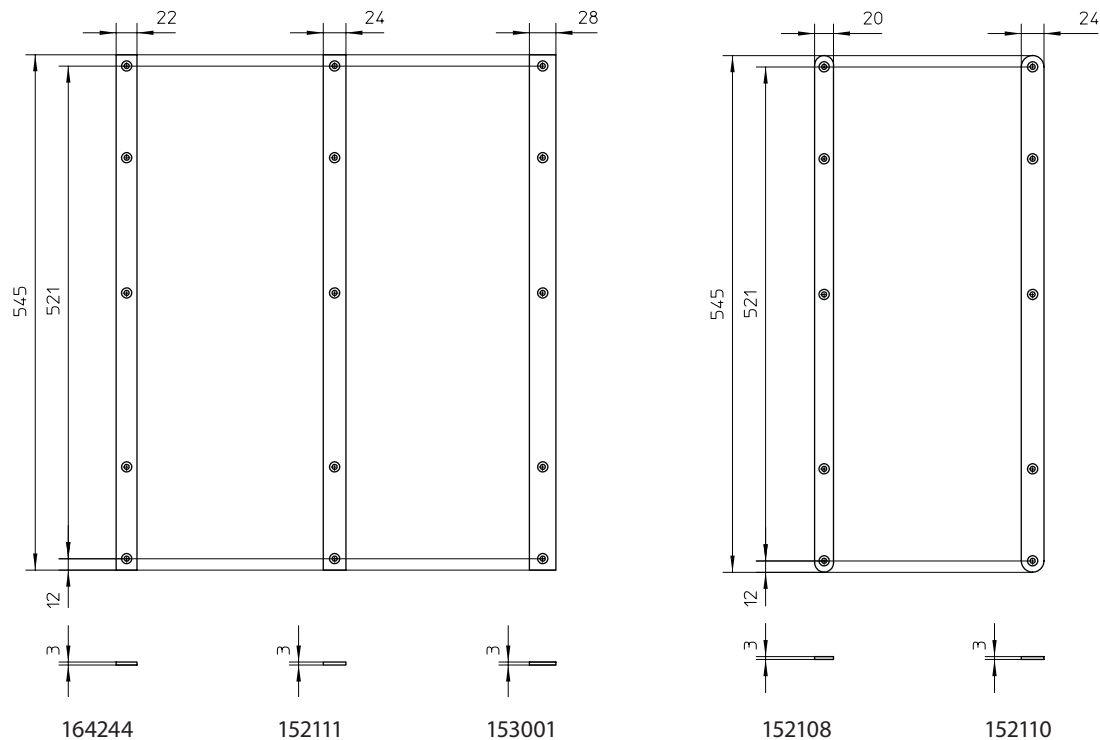
**Support strike box (passive leaf)**

ID no.	Product description	Type of door	Description (DIN direction, W × H × D)
161365	Support strike box	RR	DIN left/right, 24 × 285 × 3 mm
133914	Support strike box	RR	DIN left/right, 24 × 320 × 3 mm for profiles with 6 mm U-flat face plate
153000	Support strike box	RR	DIN left/right, 28 × 320 × 3 mm
161538	Support strike box	RR	DIN left/right, 28 × 320 × 1.5 mm
133913	Spacer strike box	RR	DIN left/right, 24 × 320 × 2 mm

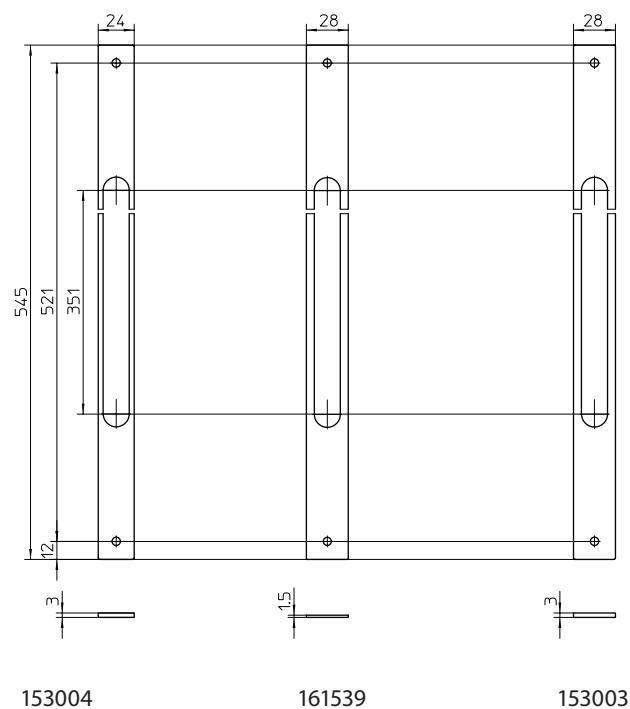


Flat face plate IQ AUT (passive leaf)

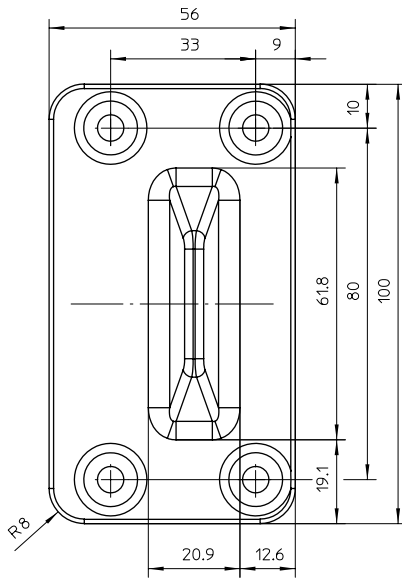
ID no.	Product description	Type of door	Description (DIN direction, W × H × D)
164244	Face plate IQ AUT	RR	DIN left/right, 22 × 545 × 3 mm
152111	Face plate IQ AUT	RR	DIN left/right, 24 × 545 × 3 mm
153001	Face plate IQ AUT	RR	DIN left/right, 28 × 545 × 3 mm
152108	Face plate IQ AUT	VB	DIN left/right, 20 × 545 × 3 mm
152110	Face plate IQ AUT	VB	DIN left/right, 24 × 545 × 3 mm

**Supports IQ AUT (passive leaf)**

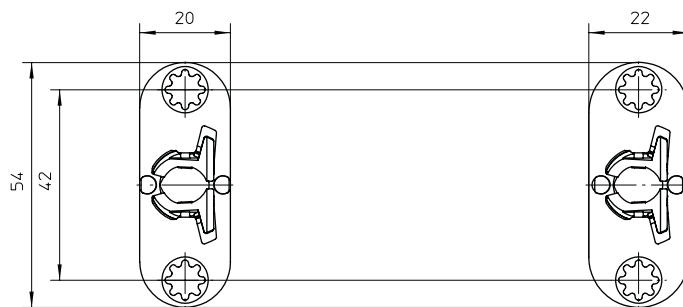
ID no.	Product description	Description (DIN direction, W × H × D)
153004	Support IQ AUT	DIN left/right, 24 × 545 × 3 mm
161539	Support IQ AUT	DIN left/right, 28 × 545 × 1.5 mm
153003	Support IQ AUT	DIN left/right, 28 × 545 × 3 mm



4.6.3 Accessories

Rod locking**Manual locking devices**

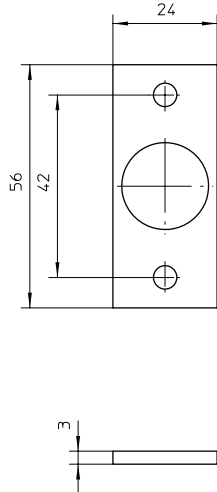
156705

Top lock top

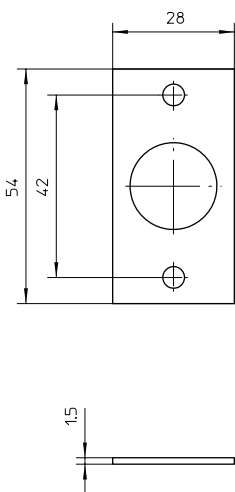
156726

157391

Top lock supports

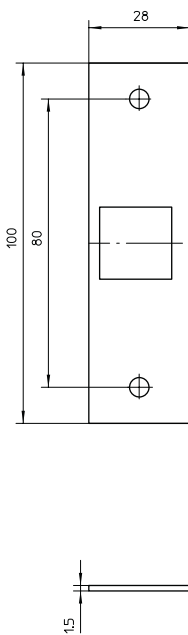


161528

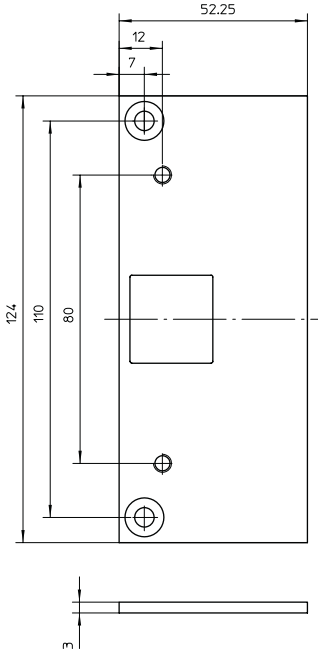


161534

Top lock - supports for strike plates



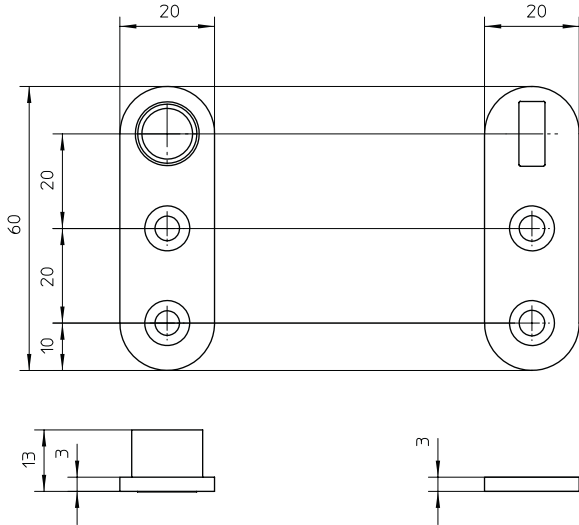
161533



161525

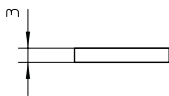
Rod guides

Round rod guide



133918

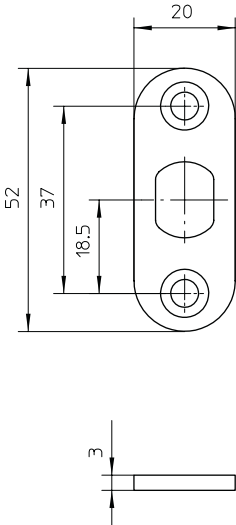
Planet rod guide



156707

Top lock

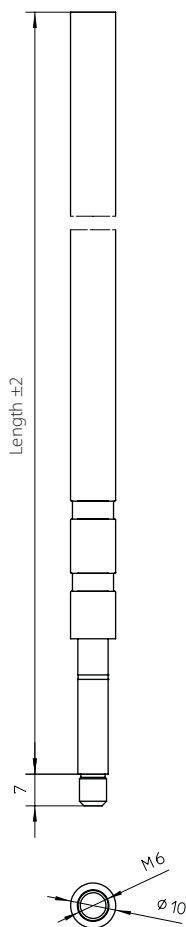
Flat strike plates



133921

Rod locking top

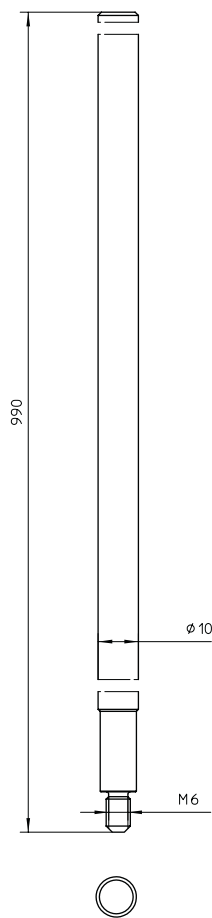
Vertical rods



Length 1000 mm	156709
Length 1500 mm	156710
Length 2000 mm	156711
Length 2500 mm	156722

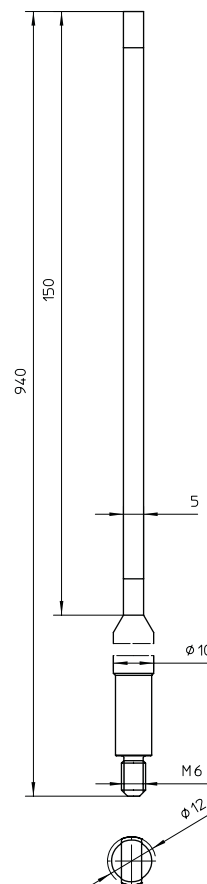
Rod locking bottom

Vertical rod



133916

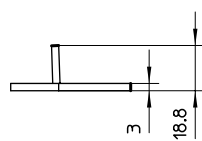
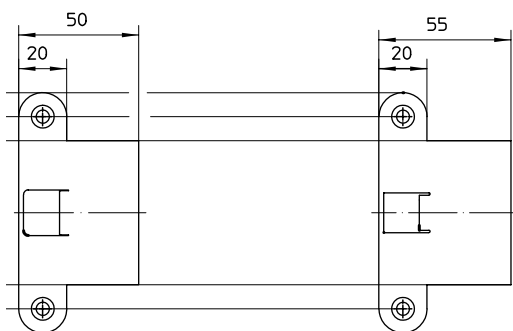
Planet rod



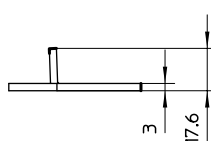
134955

Top lock (solid leaf)

Lipped strike plates

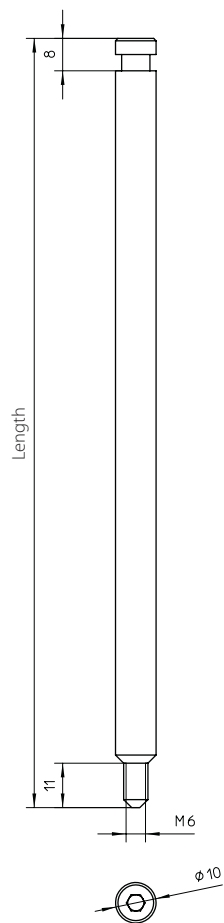


133920



156724

IQ AUT
Driving rods



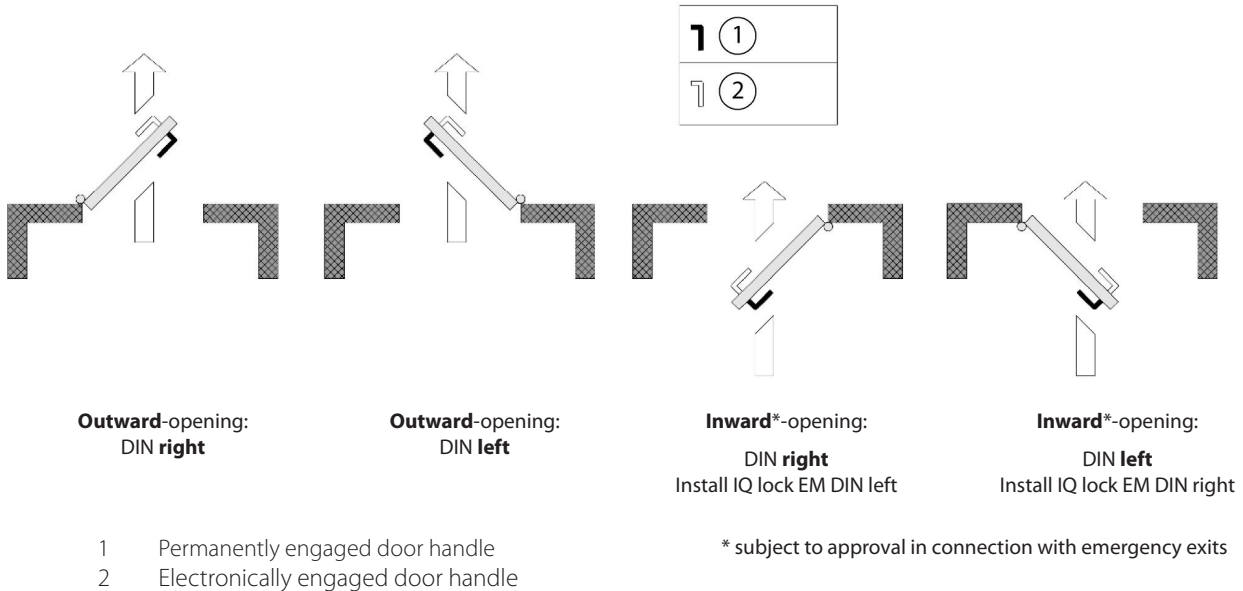
Length 190 mm	152112
Length 275 mm	178355

4.7 Door fittings



The door fittings that are listed in the approval in accordance with EN 179 and EN 1125 may be combined with the GEZE self-locking panic locks.

Stop direction for lever lock IQ lock EM / IQ lock EM DL



4.8 Function checks after installation of the mechanical components

After installation, the following functions or installation states have to be ensured:

- The door seals used must not have a negative influence on the proper function of the panic exit device.
- ▶ Ensure that the door can be opened freely when the panic exit device is operated.
- In the case of doors that cannot be opened wider than 90° a Class 2 panic exit device (normal projection) has to be used.
- Check whether glass elements at panic exit devices are equipped with safety glass or laminated safety glass.
- Panic exit devices are not designed for use on double action doors.
- ▶ Check whether all the planned keepers (closing recess, etc.) or claddings are installed. Compliance with EN 179 or EN 1125 must be guaranteed.
- ▶ Check whether a sign with the text "Press against bar to open" or a pictogram (see illustration below) is attached to the inside of the door immediately above the horizontal bar or on the bar itself, providing there is a sufficiently large and level surface available for the required text.



- The area of the pictogram should be at least 8,000 mm². The colours should be white on a green background.
- After installation the arrow must point to the operating element.

5 What if?



- You can remedy most of the problems and faults which occur in day-to-day operation yourself. The following overview should help you with this. If you cannot find the reason for a fault or remedy it, please contact GEZE.



- Never open the lock casing yourself.
- Installation and maintenance work or repairs may only be carried out by the manufacturer and their authorised specialists.
 - Improper installation and maintenance work or repairs can lead to considerable risk for the user or the product for which the manufacturer neither accepts liability nor provides a warranty.

Rod drive IQ AUT

Fault message	Fault	Cause	Remedial action
OVR_TEMP	Temperature at the motor gear unit too high	Motor gear unit overloaded	► Check locking mechanism in the passive leaf for smooth movement.
Wh_L_ON	The Hall sensor at the locking position of the toothed wheel cannot be activated. The fault is only triggered during retraction	▫ WH lock Hall sensor is defective. ▫ Toothed wheel is blocked	► Acknowledge fault and test again. If the fault occurs again: ► Return to GEZE Service.
Wh_UL1_ON Wh_UL2_ON	The first Hall sensor at the unlocking position of the toothed wheel cannot be activated. The fault is only triggered during electric unlocking	▫ The drive rod at the edge of the door is blocked. ▫ Toothed wheel is blocked. ▫ The face plate of the strike box is blocked	► Unlock the passive leaf manually. Check whether excessive force must be used for unlocking. ► Make sure that the drive rod is not blocked.
Bar_L_ON	The Hall sensor at the locked position of the drive rod is active in the unlocked state. This fault is only triggered in the unlocked state	▫ Attempted manipulation. Someone has tried to generate a locked signal. ▫ The bar lock Hall sensor is defective	► Check whether the door has been manipulated. ► Leave the voltage switched off for 10 sec and then switch it back on again.
Bar_UL_ON	The Hall sensor at the unlocked position of the drive rod cannot be activated during unlocking. This fault is only triggered during electric unlocking	▫ Drive pin is defective. ▫ Drive rod is blocked. ▫ Magnet of the drive rod has failed	► Make sure that the drive rod is not blocked. ► Check the load on the drive rod manually. ► Acknowledge fault and test again.
Wh_L_OFF	The Hall sensor at the locked position of the toothed wheel remains active during unlocking. This fault is only triggered during electric unlocking	Toothed wheel blocked.	► Acknowledge fault and test again. If the fault occurs again: ► Return to GEZE Service.
Wh_UL1_OFF	The Hall sensor at the locked position of the toothed wheel remains active during retraction. This fault is only triggered during retraction	Toothed wheel blocked.	► Acknowledge fault and test again. If the fault occurs again: ► Return to GEZE Service.
Wh_UL2_OFF	The Hall sensor at the locked position of the toothed wheel remains active during retraction. This fault is only triggered during retraction	Toothed wheel blocked.	► Acknowledge fault and test again. If the fault occurs again: ► Return to GEZE Service.

Fault message	Fault	Cause	Remedial action
Bar_L_OFF	The Hall sensor at the locked position of the drive rod remains active during unlocking. This fault is only triggered in the unlocked state	▫ Drive rod is blocked. ▫ Bar lock sensor is defective	► Make sure that the drive rod is not blocked. ► Check the load on the drive rod manually. ► Acknowledge fault and test again.
OC_2UL	"OverCurrent to unlock" The max. current limit has been exceeded during unlocking, although the drive rod has already reached the unlocked position	Toothed wheel blocked.	► Acknowledge fault and test again. If the fault occurs again: ► Return to GEZE Service.
OC_2UL_BAR	"OverCurrent to unlock" The max. current limit has been exceeded during unlocking	▫ Drive rod or toothed wheel is blocked. ▫ The load is too high	► Make sure that the drive rod is not blocked. ► Check the load on the drive rod manually. ► Acknowledge fault and test again.
OC_2L	"OverCurrent to lock" The current limit has been exceeded during locking	Toothed wheel blocked.	► Acknowledge fault and test again. If the fault occurs again: ► Return to GEZE Service.

Motor lock IQ lock EL / IQ lock EL DL

Alarm/fault	Cause	Consequence	Remedial action
Manual unlocking of the lock using panic device possible, but not using motor activation	Mechanical fault on the lock or bolt jammed in extended state	Bolt can no longer be retracted by motor, and/or error message is pending at the control unit	► Reset the activation and start activation of the lock again, error message will go out if successful.
	Power supply cable defective	Lock is not being supplied with 24 V DC	► Check continuity and replace the power supply cable of the lock if necessary.
	Control unit defective or not connected correctly	In the event of attempted manipulation, the bolt of the auxiliary latch is closed and can no longer be retracted by motor	► Check the polarity of the 24 V DC input on the control unit and change if necessary.
The door can be pushed or pulled open by hand	The cross latch cannot be positioned or the lock cylinder is jammed	Bolt blocked in retracted state	► Position the strike plate correctly. ► Check activation of the exchange function using the key.
	Door handle is jammed in activated position or handle return spring is broken	The door handle does not return to its initial position after activation The signal is sent via fault relay after 4 min	► Loosen the screws, lubricate the handle guide, correct fastening. The error message is reset once the handle is mobilised again. – or – ► Replace the lock.
	Auxiliary latch is not activated	Bolt is not extended with door closed	► Check the clearance of the door leaf and shim the strike plate if necessary.
	Lock in permanently unlocked mode	Lock does not lock when the door is closed	► Check permanently unlocked activation.
	Power supply cable has been interrupted during the release time	Lock does not lock when the door is closed	► Check power supply cable for continuity.
The auxiliary latch closes with door closed with "Off"	Strike plate has been reworked and hollowed out too much	–	► Open the door and replace the strike plate.

Alarm/fault	Cause	Consequence	Remedial action
No signal from the Reed contact	Sensing distance of the Reed contact exceeded or power supply cable for the Reed contact defective – or – Input external door contact on the control unit defective	Electrical timeout function still working. Door locks during door closing process or remains locked when door is closed. Door mode "door closed" is not signalled.	▶ Check Reed contact, sensing distance observed? ▶ Check continuity, check input of external door contact on the control unit.
Lock no longer locks	Power supply cable defective	Bolt no longer extends	▶ Replace power supply cable.
Door leaf cannot close	Cross latches hit the strike plate hard	Door leaf cannot close, latches grind at the strike plate	▶ Lubricate the cross latches lightly with a lubricant approved by GEZE.
	Auxiliary latch can no longer be activated		▶ Mobilise the auxiliary catch carefully.

Lever lock IQ lock EM / IQ lock EM DL

Alarm/fault	Cause	Consequence	Remedial action
Manual unlocking via the outer door handle not possible	Magnet is not energised	Outside handle is not engaged and is disabled	▶ Check the polarity of the 24 V DC input and replace if necessary. – and/or – ▶ Check the continuity of the power supply cable. If the power supply cable and polarity are both OK: ▶ Replace the lock.
The door can be pushed or pulled open by hand	Cross latch cannot be positioned – or – Lock cylinder is jammed	Bolt blocked in retracted state	▶ Position the strike plate correctly. – or – ▶ Check activation of the exchange function using the key.
	Door handle is jammed in activated position – or – Handle return spring is broken	The door handle does not return to its initial position after activation and there is no locking signal given	▶ Loosen the screws, lubricate the handle guide, correct fastening. – or – ▶ Replace the lock.
	Auxiliary latch is not activated	Lock does not lock when the door is closed	▶ Check the clearance of the door leaf.
Bolt shoots out again immediately after the door has been opened	Door handle has not been pressed down completely. – or – Auxiliary latch is jammed	Face plate is not held in permanently unlocked position, door cannot close and be locked properly	▶ Press the door handle as far as it will go. ▶ Check the tension-free fit of the lock. Rework the lock recess if necessary. If there is no change in lock behaviour: ▶ Replace the lock.
The auxiliary latch closes with door closed with "Off"	Strike plate has been reworked and hollowed out too much	–	▶ Open the door and replace the strike plate.
Door leaf cannot close	Cross latches hit the strike plate hard	Door leaf cannot close, latches grind at the strike plate	▶ Lubricate the cross latches lightly with a lubricant approved by GEZE.
	Auxiliary latch can no longer be activated	–	▶ Mobilise the auxiliary catch carefully.
Contacts are not signalling	Fittings set installed twisted – or – Lock case fitted in the recess under mechanical tension	Contacts in the lock are not activated by the integrated face plate	▶ Remove the fittings set. ▶ Check the tension-free fit of the lock. ▶ Rework the lock recess if necessary, mobilise the lock or replace the lock.
	Power supply cable is defective	Relaying of contacts not possible	▶ Check power supply cable through or replace lock.

Mechanical contact lock IQ lock C / IQ lock C DL and mechanical lock IQ lock M / IQ lock M DL

Alarm/fault	Cause	Consequence	Remedial action
The door can be pushed or pulled open by hand	Cross latch cannot be positioned	Bolt blocked in retracted state	► Position the strike plate correctly.
	Lock cylinder is jammed	Bolt blocked in retracted state	► Check activation of the exchange function using the key.
	Door handle is jammed in activated position – or – Handle return spring is broken	The door handle does not return to its original position after activation	► Loosen the screws. ► Lubricate the handle guide. ► Correct fastening – or – ► Replace the lock.
	Auxiliary latch is not activated	Lock does not lock when the door is closed	► Check the clearance of the door leaf.
Bolt shoots out again immediately after the door has been opened	Door handle has not been pressed down completely – or – Auxiliary latch is jammed in activated position	Face plate is not held in permanently unlocked position, door cannot close and be locked properly	► Press the handle down as far as it will go ► Check the tension-free fit of the lock. ► Rework the lock recess if necessary. If there is no change in lock behaviour: ► Replace the lock.
The auxiliary latch closes with door closed with "Off"	Strike plate has been re-worked and hollowed out too much	–	► Open the door and replace the strike plate.
Door leaf cannot close	Cross latches hit the strike plate hard – or – Auxiliary latch can no longer be activated	Door leaf cannot close, latches grind at the strike plate	► Lubricate the cross latches lightly with a lubricant approved by GEZE. ► Mobilise the auxiliary catch carefully.

6 Maintenance



Lock maintenance work must be carried out once a year by GEZE or an authorised GEZE partner.

Maintenance instructions

These maintenance instructions are part of the installation and operating instructions and have to be made available to the owner/operator of the building.

In addition, we recommend monthly checks on the locks by the owner/operator as follows:

- Make sure by inspecting and activating the emergency exit device that all parts of the lock are in a satisfactory operating conditions.
- Use a dynamometer to measure and record the operating forces required to release the panic exit device/emergency exit lock.
- Ensure that the operating forces have not changed substantially in comparison to the operating forces recorded during initial commissioning.
- Ensure that bolt heads or keepers are not blocked or clogged up.
- Ensure that the panic exit device has been lubricated according to the manufacturer's instructions and that the operating element has been tightened properly.
- Ensure that no additional locking devices are added to the door after initial installation.
- Check whether all the components of the panic exit device still comply with the list of approved components originally supplied with the system.
- Ensure that these documents are made available to the owner/operator of the panic exit device/escape door lock.

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