



EN

20231030

Installation manual

SAFETRON SL620

IMPORTANT INFORMATION

The safety features of this product are crucial for its compliance with EN 14846:2008. Modifications or other changes to the installation and/or products beyond those described in this documentation are not permitted. SAFETRON assumes no responsibility for products that have not been installed in accordance with the current instructions or if the maintenance instructions are not followed.

- SAFETRON solenoid locks in the 600 series are electric locks used in doors with normal security requirements. The locks are available in different designs for different types of usage and security requirements. Solenoid locks are suitable where fast locking is required and can be used on both light interior doors and heavy exterior doors.
- Fire door rating with reference to test report number: **PGAI1645A_rev1**. The test was performed with a single steel door.
- When used in fire proof doors solenoid locks in the 600 series must be used in conjunction with a certified door.
- Check the door's fire certificate, if any, to ensure that there are no conditions in the certificate that exclude or restrict the use of the SL620/SL621/SL630.
- Before installing an electric lock, check that the door is correctly installed and that the door leaf moves freely. It is not recommended to install SAFETRON solenoid locks in hollow core doors. Check that the door's construction allows the installation of a lock, for example by checking hidden hinges, that overlapping doors can be opened at the same time, that the door gap is 3 mm +/- 1 mm and that moving parts do not affect each other.
- SAFETRON locks may be installed in single doors or double doors made of wood, steel or aluminium. Door weight: over 200kg.
- Locks manufactured according to SS-EN 14846:2008 provide a high degree of reasonable security provided they are fitted to doors and frames in good condition.
- Consideration must be taken to ensure that any seals or sealing strips do not inhibit the function of the lock.
- Ensure that the correct lock is fitted for the intended door environment (see product catalogue).
- The assembly method does not differ between different types of doors, such as wood/metal.
- Established instructions must be followed carefully during installation. These instructions must be transmitted by the installer to the user.
- All components specified for the installation must be used to meet the European standard SS-EN 14846:2008.
- Check that the lock latches (when in retracted position) do not prevent the opening and closing function of the door (see maintenance instructions).
- Where locks are mounted on double doors (double doors) it is required that door closers are used that have a door coordinator according to EN 1158 (see standard) to ensure the correct closing sequence.
- The products must not be used in doors that can be opened in both directions, such as swing doors.

INSTALLATION

Read through and follow the installation instructions.

- To ensure a good function, the door gap must be 3mm +/- 1mm.
- Avoid file and emery chips. After the recess has been made in the frame, it must be cleaned properly.
- Ensure that the cable is not pinched or damaged during installation.
- Cable of type data/signal with area less than 0.2 may not be used to supply power to the lock.
- Cable area must be dimensioned based on the conditions that apply.
- When supplying multiple locks/passage systems/readers/central units together the total power consumption must be taken into account when calculating the cable area.
- The warranty is void in the event of incorrect installation or the use of accessories that are not recommended by SAFETRON.
- SAFETRON does not provide a warranty for installations that do not follow the recommendations.

MAINTENANCE

Lock maintenance should be performed by a trained professional. In normal use, the mechanical parts of the lock housing should be lubricated once a year. Use a lubricant that does not contain graphite or solvents.

- Check that mounted knobs, door handles and cylinders are working satisfactorily. If necessary, lubricate and/or adjust.
- For high-frequency use, the mechanical parts of the lock housing are lubricated as needed.
- The electrical parts of the lock housing are maintenance-free
- Check and adjust if necessary that the door closes correctly. To achieve this, e.g. door hinges as well as door closers need to be adjusted. A poor door function negatively affects the locking function.

PROPERTIES AND TECHNICAL DATA

SAFETRON locks in the 600 series are electromechanically controlled solenoid locks in modular design, in power to open or power to lock versions, adjustable for right-/left-hung doors and with or without split function.

For more information on areas of use and accessories see www.safetron.com.

Technical data

SAFETRON SL620

- Multi current: 12-24VDC
- Power consumption: 40mA
- Working temperature: -25°C till +70°C
- Door sensor: Max 250mA 30VAC/VDC, 10W

SAFETRON SL620 are tested and certified in accordance with EN 14846: 2008

The products meet the following requirements according to SS-EN 14846: 2008

| Category of use | Durability and load on latch | Door mass and closing force | Suitability for use on fire / smoke doors | Safety | Corrosion resistance and temperature | Security and drill resistance | Security electrical function | Security electrical manipulation |
|-----------------|------------------------------|-----------------------------|---|----------|--------------------------------------|-------------------------------|------------------------------|----------------------------------|
| 3 | X | 6 | F | 0 | L | 3 | 1 | 1 |

The lock meets the requirements for fire proof doors: 120 min

SAFETRON SL620 together with emergency exit devices 793 and 794 are tested and certified in accordance with SS-EN 179:2008

The products meet the following requirements according to SS-EN 179:2008

| Category of use | Durability | Door mass and closing force | Suitability for use on fire / smoke doors | Safety | Corrosion resistance and temperature | Security | Projection of operating element | Type of operation | Field of door application |
|-----------------|------------|-----------------------------|---|----------|--------------------------------------|----------|---------------------------------|-------------------|---------------------------|
| 3 | 7 | 7 | B | 1 | 3 | 5 | 2 | A | B/D |

ACCESSORIES

| Description | Art no |
|----------------------------------|-----------|
| Cable C02 (10m) | 202144628 |
| Emergency exit device 793 Cr | 202144913 |
| Emergency exit device 793 Mcr | 202144999 |
| Emergency exit device 793 Mblk | 202145000 |
| Emergency exit device 794 H Cr | 202144899 |
| Emergency exit device 794 V Cr | 202144900 |
| Emergency exit device 794 H Mcr | 202144995 |
| Emergency exit device 794 V Mcr | 202144996 |
| Emergency exit device 794 H Mblk | 202144997 |
| Emergency exit device 794 V Mblk | 202144998 |
| Emergency exit device 794-2 Cr | 202144991 |
| SAFETRON REC (re-entry card) | 202144936 |

FUNCTIONS

Simple function

Both the outside and inside door handles are electrically controlled and thus electrical activation is always needed for access. On the inside, an open button or a code lock/access control system is needed, the latter option is advantages if you want to increase the security level even further.

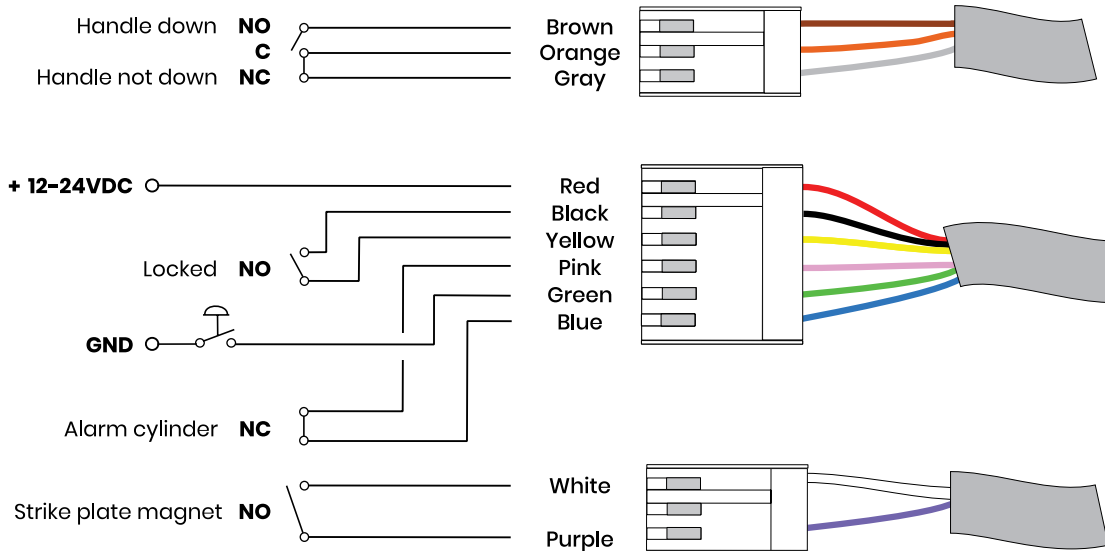
Split function

Split function means that the door handle on the outside is electrically controlled, while the door handle on the inside is always mechanically activated, thereby always allowing for a mechanical exit. This means you don't need an open button on the inside but instead can always use the door handle to exit.

Unlocked

In the unlocked position, both outside and inside door handles are mechanically activated, which means that the lock can be used mechanically before it is put into operation, e.g. on a construction site where doors have been installed but before the access control system has been installed.

WIRING



Cable of type data/tele/signal with areas between 0.1-0.2 must not be used as power supply for the lock. Safetron does not provide a warranty for installations that do not follow the recommendations. See table below.

Recommended minimum cable area between power source (transformer, not passage system) and lock housing (total length)

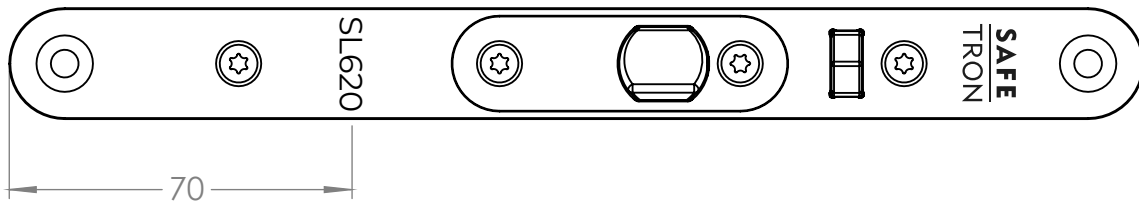
ATTENTION!

It is important that the power supply to the lock has the right dimensioned cable to avoid voltage drops that may interfere with the functionality of the lock. When supplying multiple locks/passage systems/readers/central units the total power consumption must be taken into account when calculating the cable area.

| Recommended cable dimensions | | | | | |
|------------------------------|---------------------|---------------------|---------------------|---------------------|--------------------|
| | 0-10M | 11-20M | 21-40M | 41-80M | 81-100M |
| 12-24V | 0,17mm ² | 0,34mm ² | 0,68mm ² | 1,36mm ² | 1,7mm ² |

DOOR SENSOR (STRIKE PLATE MAGNET)

The magnet in strike plate is adjusted against the model engraving on the forend of the lock case.



ADJUSTING FOR RIGHT OR LEFT

Setting the latch bolt orientation

1. Loosen the locking screw with a 2.5mm hex key.
2. Take out the latch bolt and turn it over.
3. Re-install the latch bolt and fasten the locking screw.

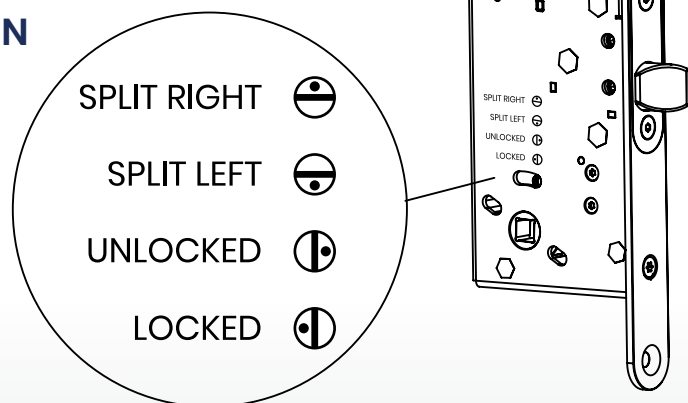
SETTING THE SPLIT FUNKTION

Setting the split function is set via the function selector which has four distinct positions. The screw has a round marking that indicates the selected function.

Choose **Split right** for a right-hung door or **Split left** for a left-hung door by setting it in the correct position.

SET THE LOCK IN SIMPLE FUNCTION

To set the lock in simple function where electric activation is required from both sides of the door the function selector is set to the position **Locked**.

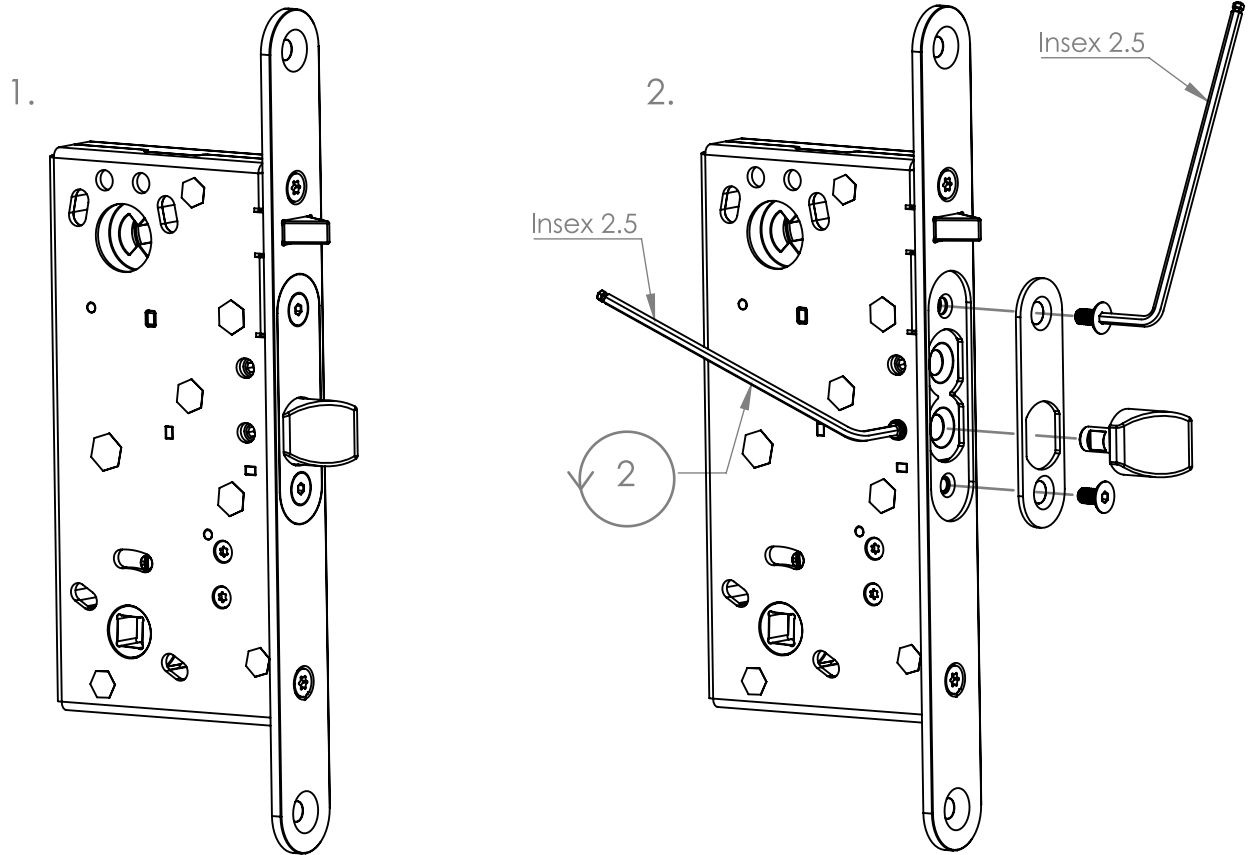


SET THE LOCK IN UNLOCKED SETTING

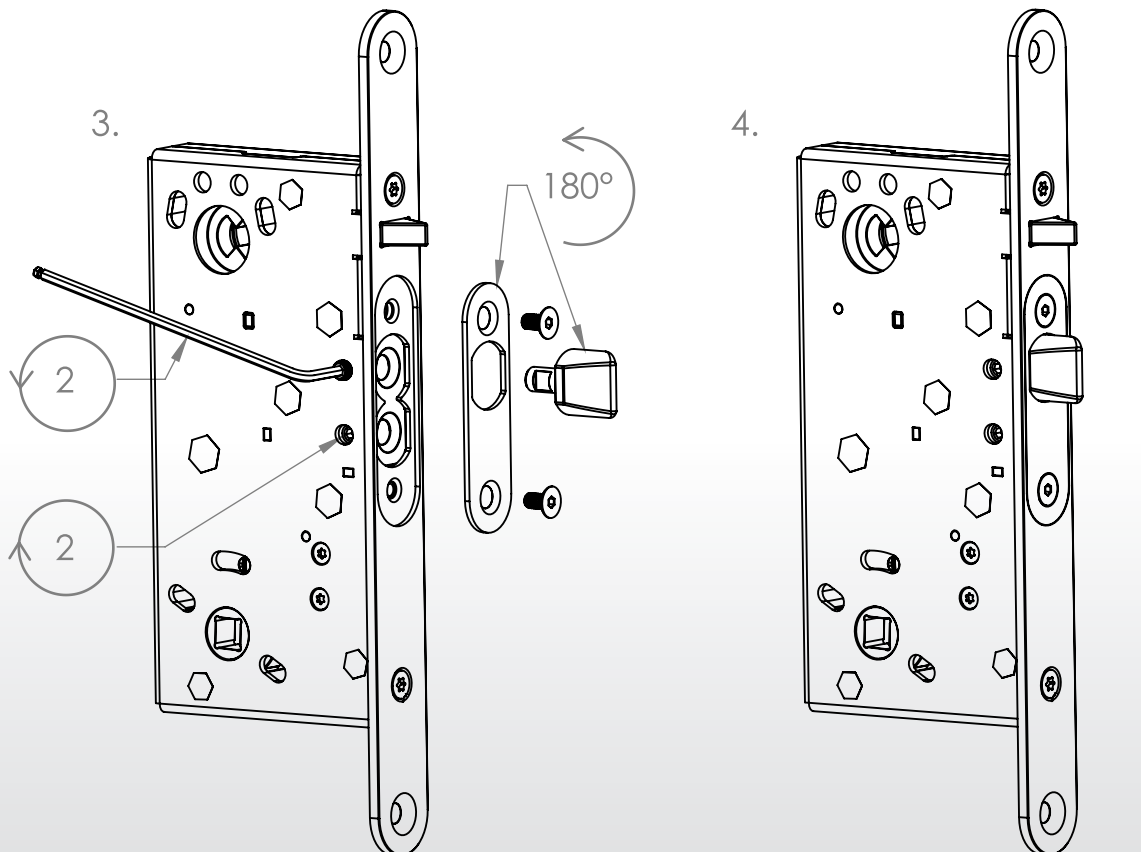
To set the lock in the unlocked state where both sides are mechanically open, set the functional selector to the position **Unlocked**.

ADJUSTING THE LATCH POSITION

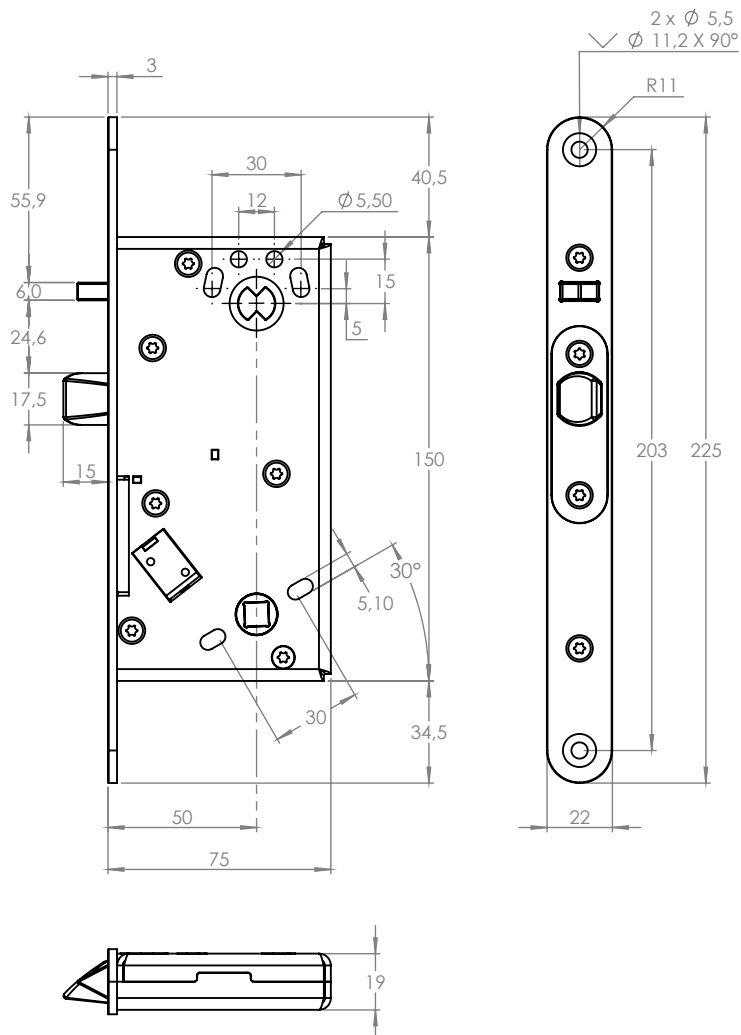
"MODERN" LATCH POSITION



"CLASSIC" LATCH POSITION



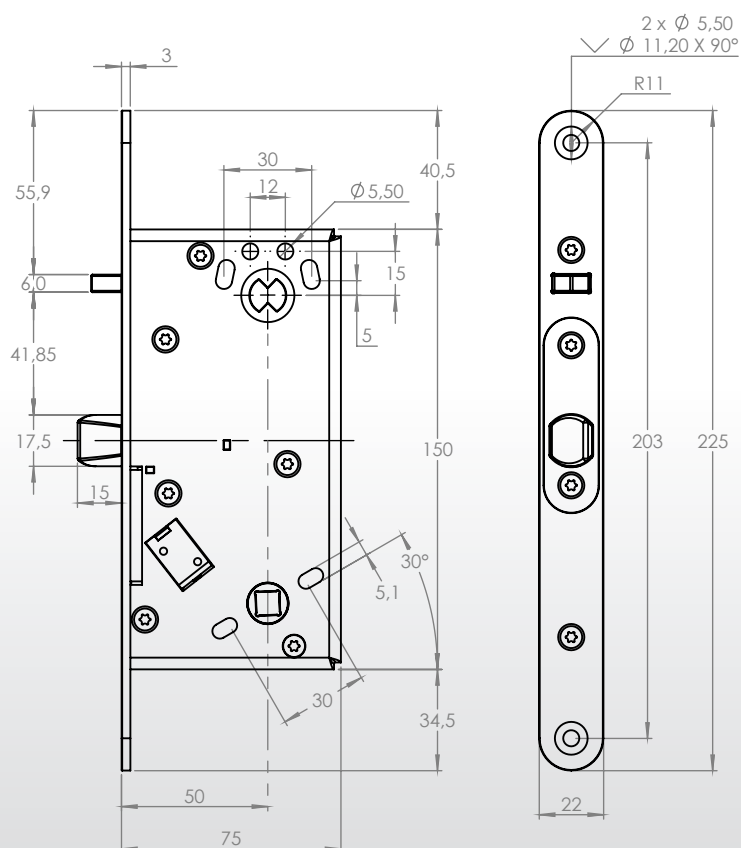
DIMENSIONS



Drawing

SL 620
SL 621

Latch position:
Classic

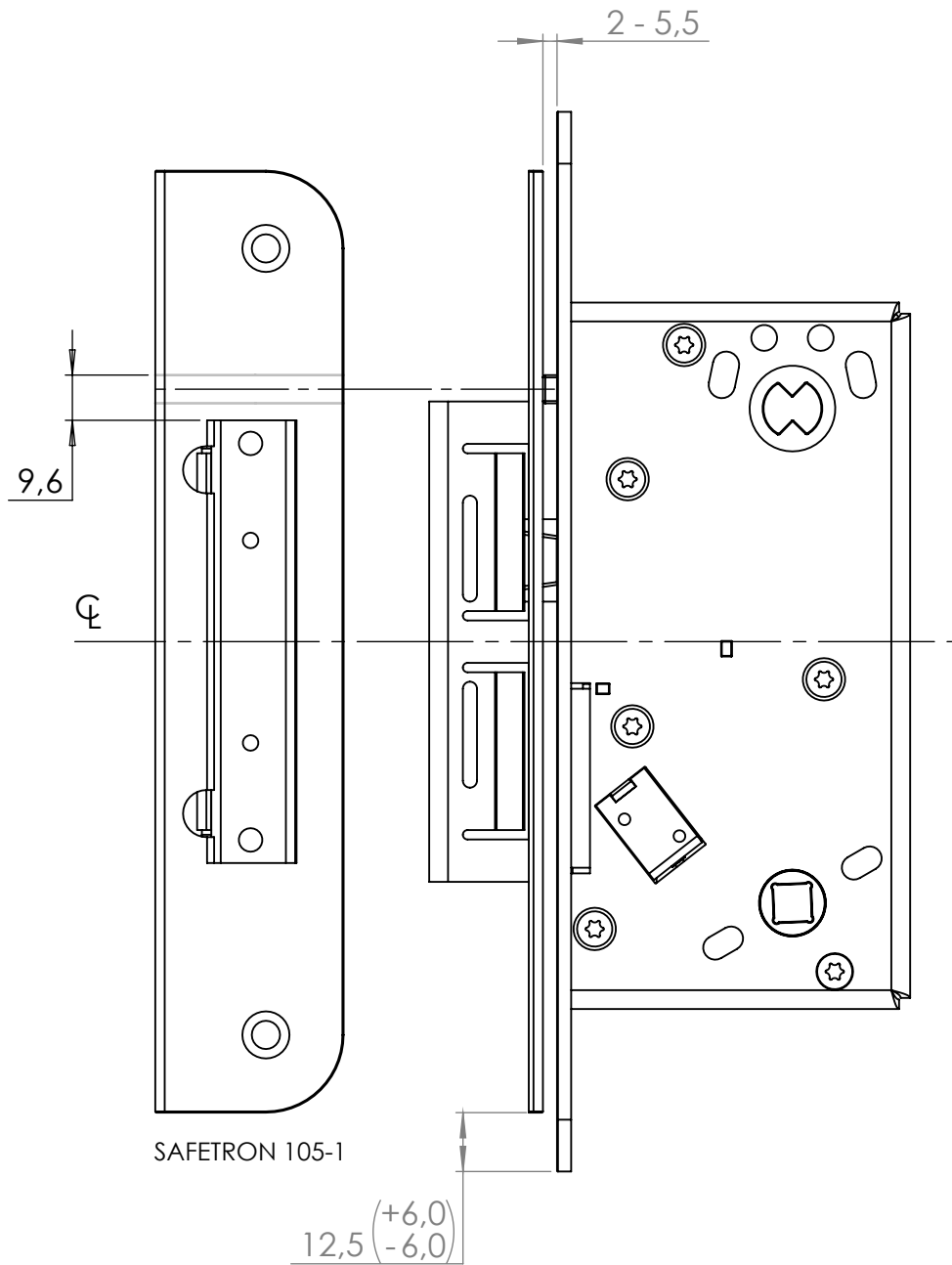


Drawing

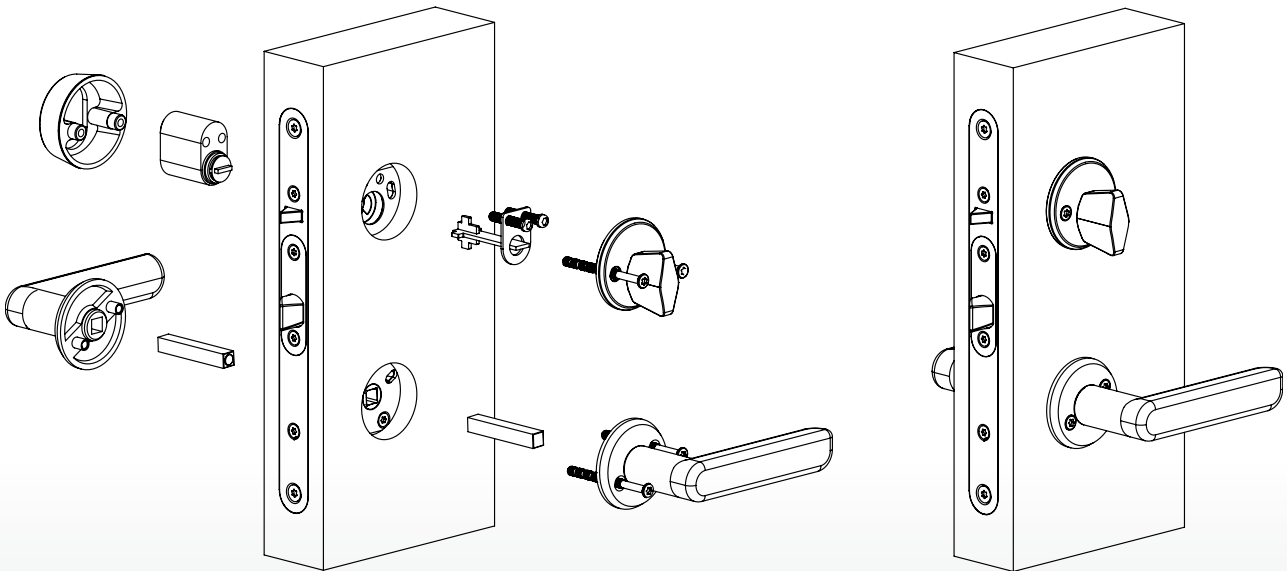
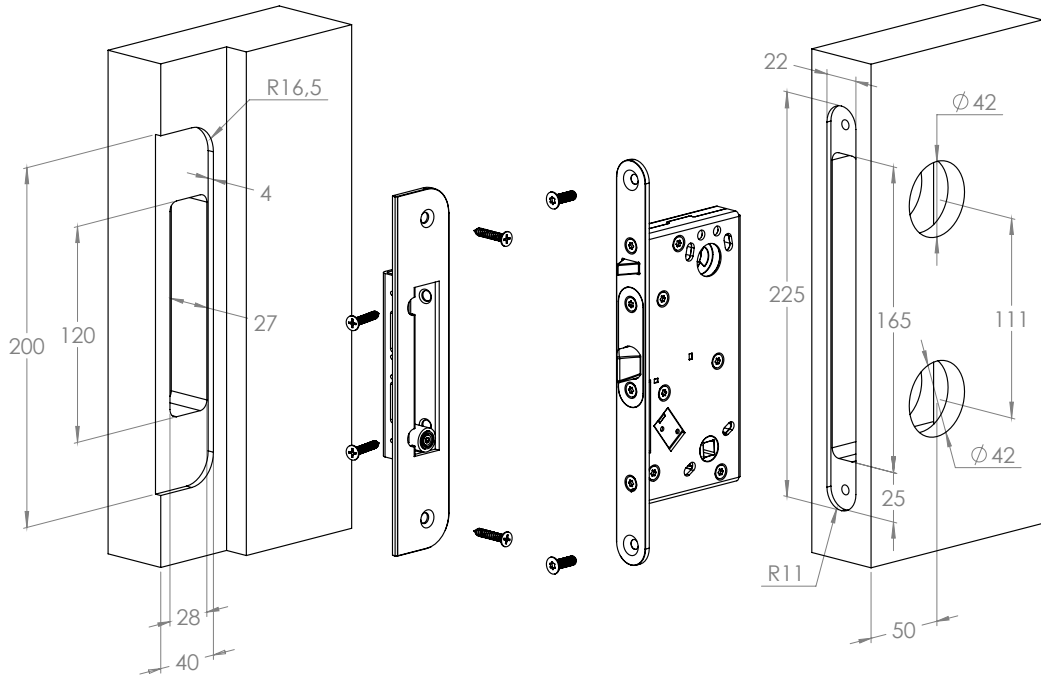
SL 620
SL 621

Latch position:
Modern

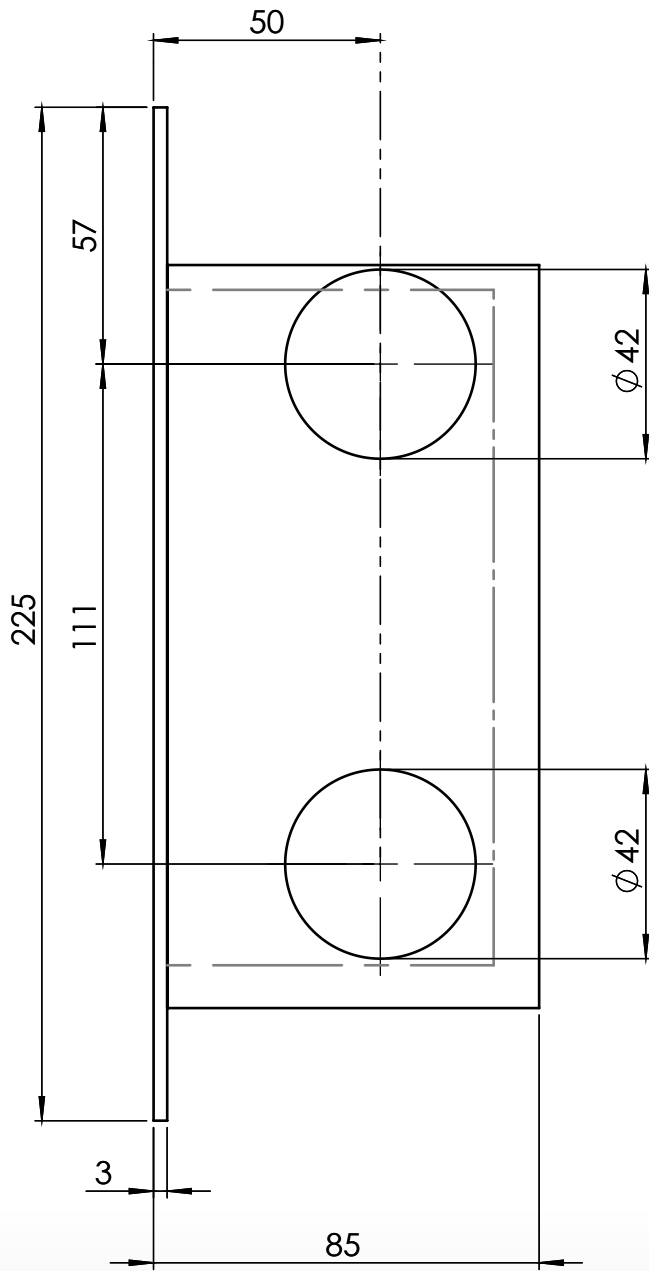
STRIKE PLATE POSITION



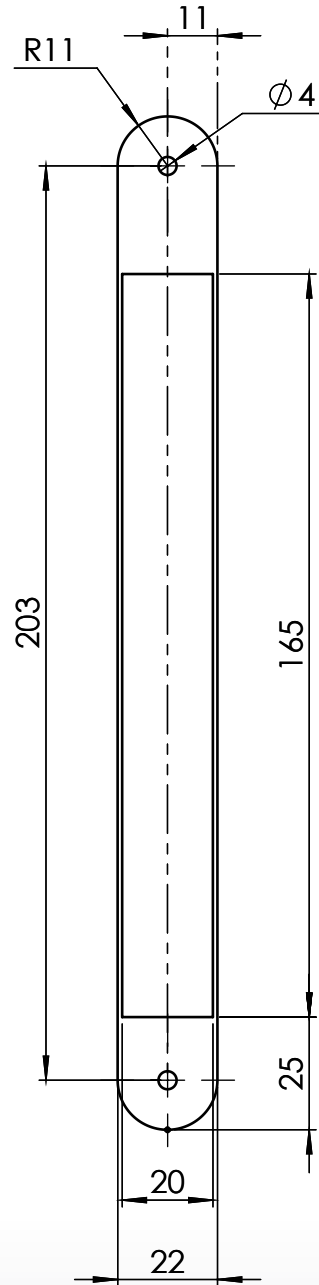
INSTALLATION



DRILLING SCHEME



(Lock case depth 75 mm)





MAINTENANCE SAFETRON SOLENOID LOCK

- Maintenance should be performed by a trained professional
- Ensure that mounted knobs, handles and cylinders are working satisfactory
- Lubricate and make adjustments as necessary
- In normal use lubricate the lock housing mechanical parts once a year. Use a lubricant that does not contain graphite or solvents
- At high frequency use, lubricate mechanical parts as needed
- Lock housing electrical components are maintenance free
- Check that the door closes properly. If necessary adjust door hinges and/or door closers. A bad door function adversely affects locking

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SAFETRON AB

Säterivägen 18
P.O. Box 2096
65002 Karlstad
Sweden

Tel: +46 54 19 02 45
info@safetron.com
www.safetron.com