

Note:

On the cover sheet you can find warning information, and an explanation of the symbols and terms used, together with the exclusion of liability.

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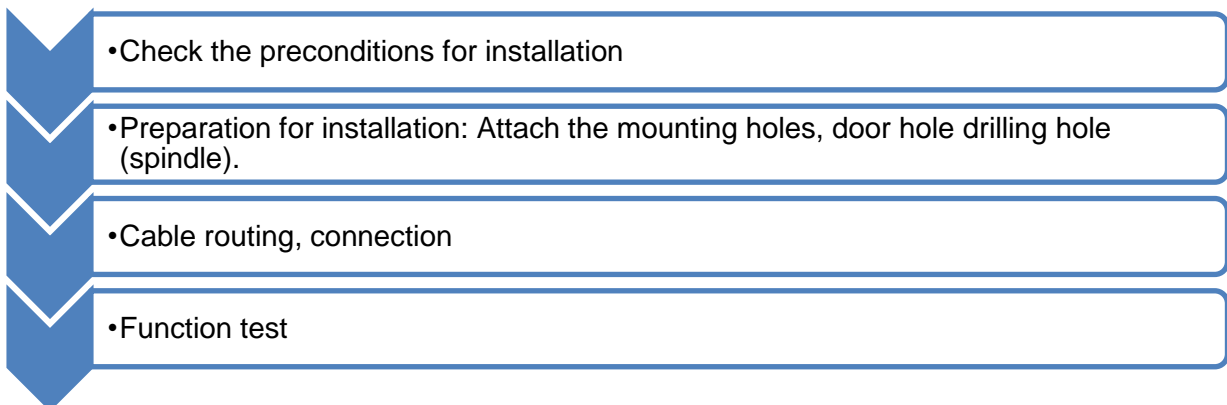
General

In principle, all locks in the Primor and Anchor series can be operated with input units of these series.

For locks where the bolt is driven from the outside via an axis, rotatable versions or input units with operating toggles are available. In combination with, for example, locks with motor-powered bolts, these can also be used as boltwork drives, depending on the application.

It is also conceivable to drive the bolt with a separate toggle or rotary knob operated using one of the fixed keypads. If the cable connection is not routed through the drive axis, the required hole / cable route must be selected so that no access to the lock body is possible through it by tools, sensors or similar. Holes for the cable aperture must be at least 8 mm and can be a maximum of 11.4 mm.

Always use the following sequence for installation:



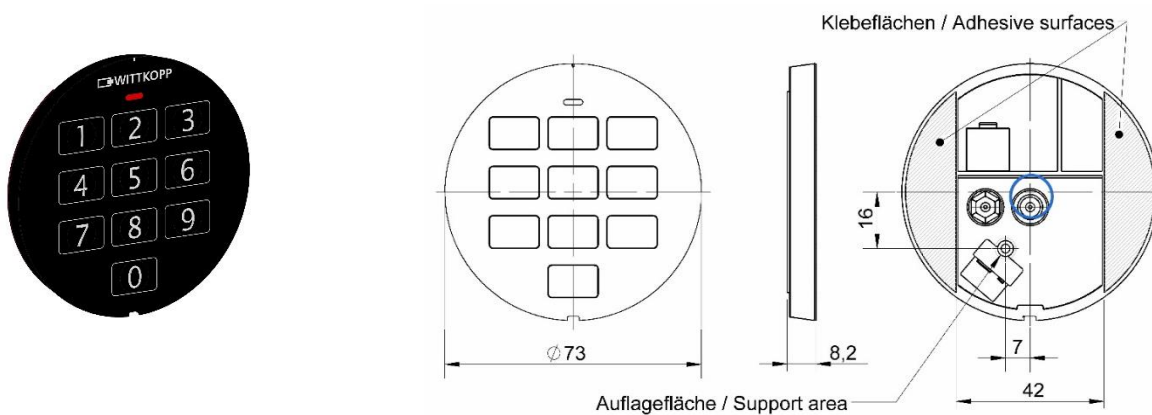
Installation

Input unit Primor LC

Preparation for installation

Drill a through-hole of \varnothing 8mm, max. 11.4mm in the door for the cabling, ensure that there are no burrs on either side. Centre the hole position on the input unit, see drawing.

Clean the bonding surface on the input unit to remove dust, oil, release agents and other contaminants, allow the bonding surface to dry.



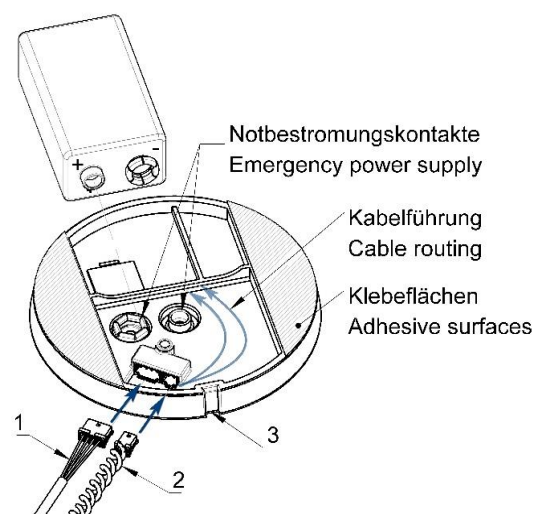
Plug the lock's connecting cable (1) into the 4-pin connector socket of the input unit. If the input unit is supplied with power via the battery compartment, plug the battery cable (2) into the 2-pin connector socket.

Route the cables next to each other on the underside of the input unit, see drawing.

Carry out assembly test - do not loosen adhesive tape:

Carefully push the cables back into the through-hole of the door; do not damage the cables in the process. Align the input unit on the door and place it on the mounting surface. Check that the cables are routed correctly on the underside of the input unit. The cables must not be jammed or loose. Correct the cables if necessary.

After correct installation, remove both adhesive strips, check the cable routing, align the input unit and press it firmly onto the prepared surface on the door.



Note on disassembly / emergency power supply:

To dismantle the input unit, insert a screwdriver of a suitable size into the groove of the input unit (no. 3, see drawing), avoid scratch marks and lift the input unit upwards.

Do not damage the cables underneath.

For an emergency power supply, first dismantle the input unit and connect a 9V alkaline block battery to the battery contacts.

Input unit Primor RO

Preparation for installation

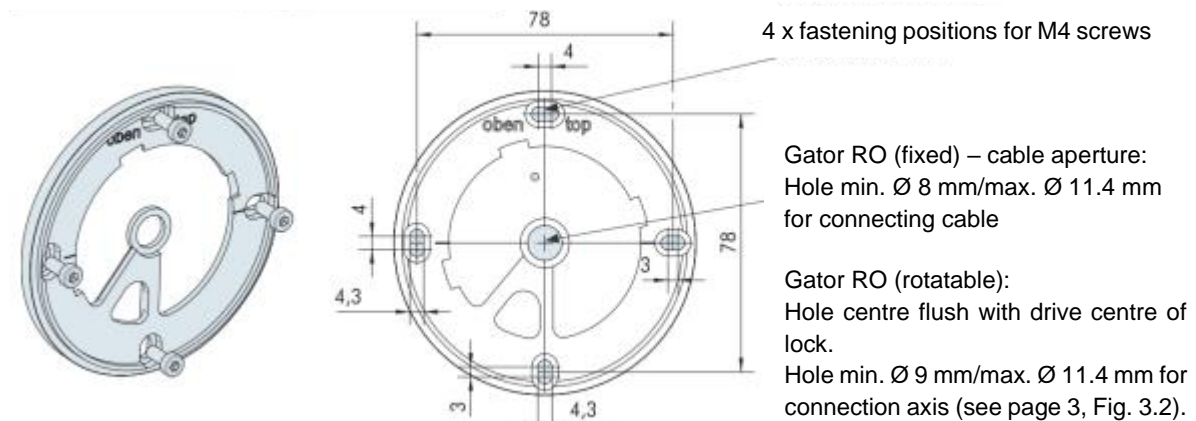
From the front, drill four M4 threaded holes with sufficient thread depth and one through-hole (cable aperture / connection axis) in the centre of the keypad in the safe door.

The hole diameter for the through-hole must not exceed 11.4 mm.

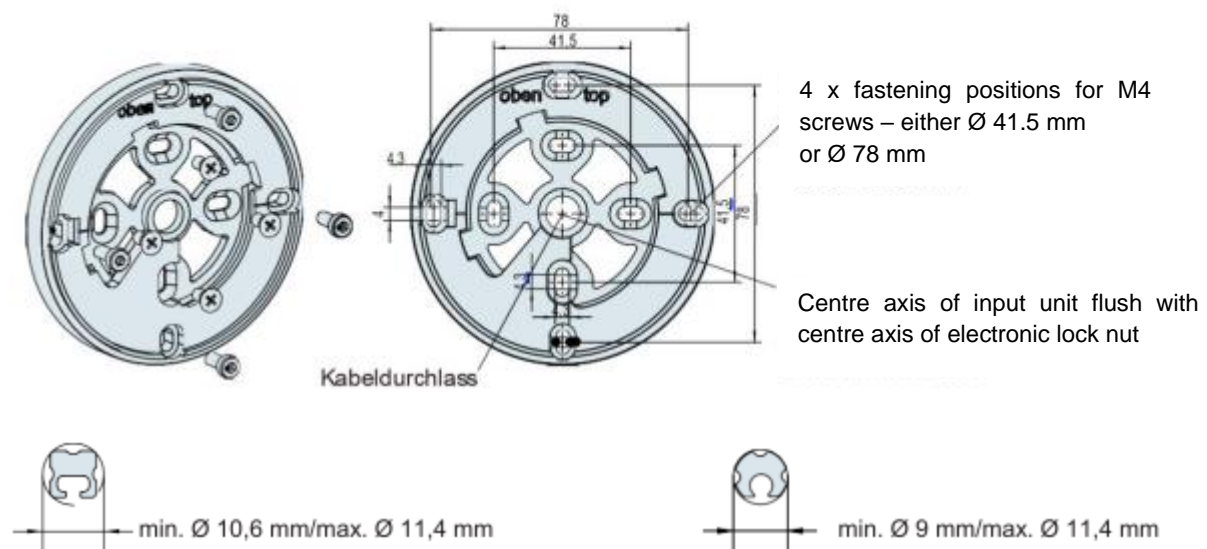
Two axis versions are available for this type. A square spindle is used as standard, which requires a minimum bore diameter of 10.6 mm.

For retrofitting with an existing keyhole in place of the through-hole, a rounded spindle is available, which can be used with a minimum diameter of 9 mm.

Version 1: 4 fastening points at Ø78 mm



Version 2: 4 fastening points at Ø 78 mm and 4 fastening points at Ø 41.5 mm



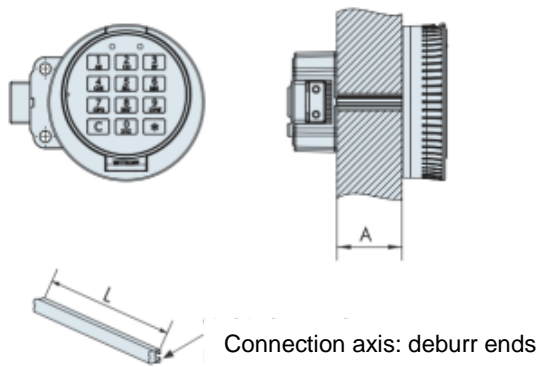
The rounded spindle can naturally transmit less torque. It is therefore unsuitable as a bolt drive.

The spindle length in connection with locks of type P100 is calculated from the total door thickness and the axle length of 43 mm guided in the lock and keypad. (Tolerance -4mm.)

For A2600 series locks, the length is calculated from the door thickness and the

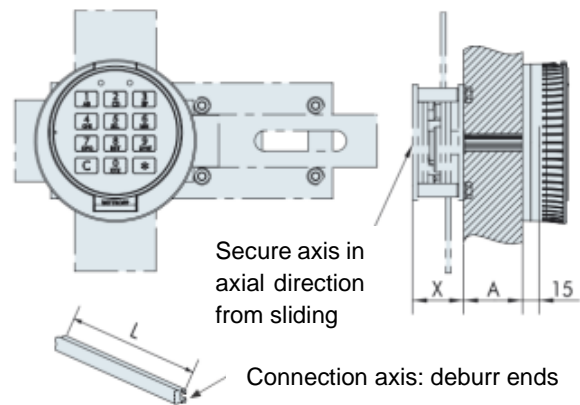
guided axle length of 35 mm (tolerance -3 mm).

For boltwork drives, the door thickness and the axle guide inside the boltwork plus any necessary axial protection are added to the immersion depth of the axle in the keypad guide of 15 mm. (Tolerance -4mm)



$$L = A + 43\text{mm (tolerance -3mm)}$$

$$\text{Anchor 2600: } L = A + 35\text{mm (tolerance -3mm)}$$



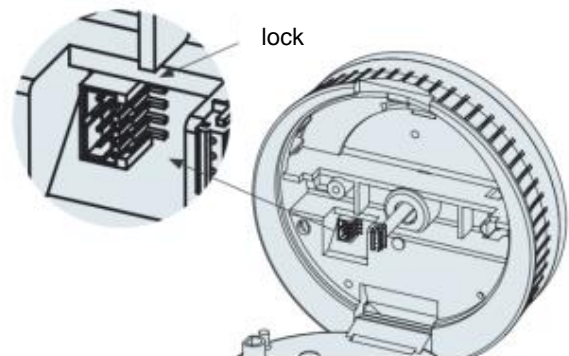
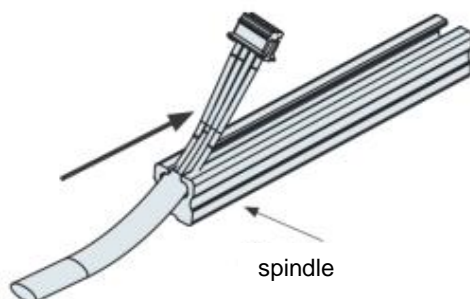
$$L = X + A + 15\text{ mm (+ axial protection)}$$

Cable routing / connector position

Guide the connecting cable through the spindle and insert it into the input unit from

behind. Then plug the cable into the connector socket on the circuit board.

Do not put any strain on the connecting cable.



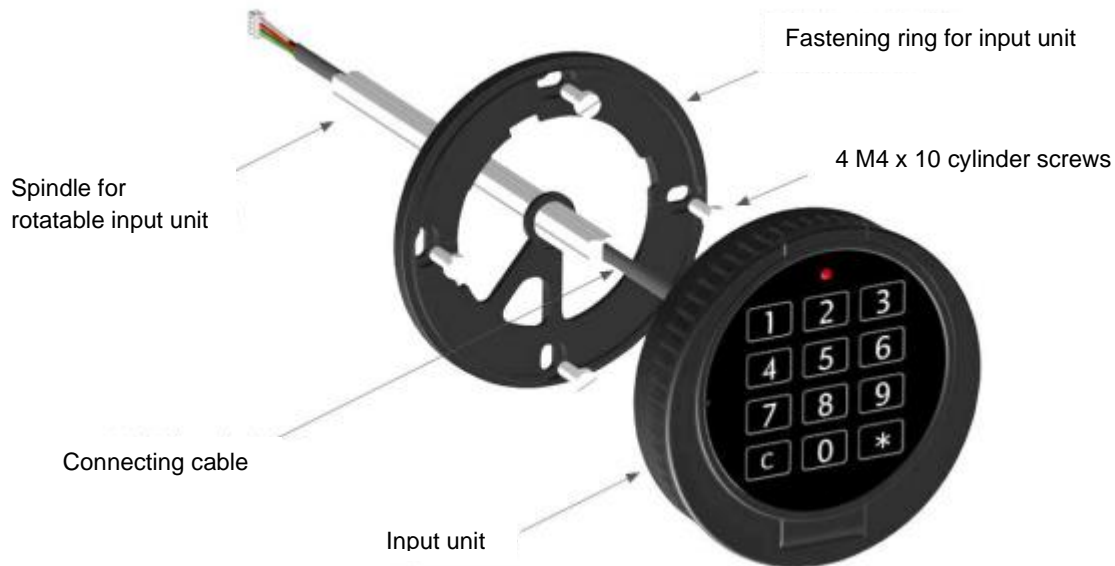
Anchor / Primor

Keypad installer manual

Installation and commissioning instructions

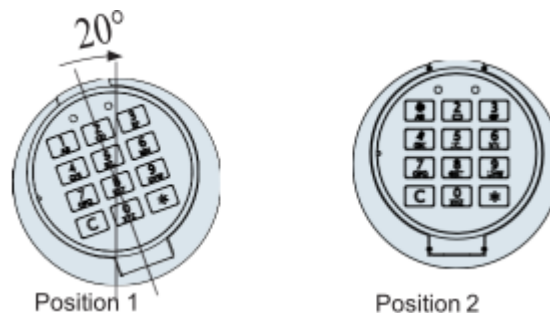
Installation

Fasten the fastening ring with the enclosed M4 x 10 cylinder screws.



Push the input unit onto the fastening ring at an angle of approx. 20° (position 1).

Move the input unit to position 2 by turning it to the right. The rotary movement must be smooth.



Anchor / Primor

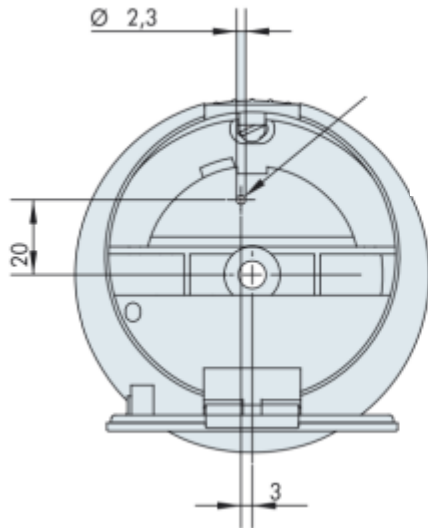
Keypad installer manual

Installation and commissioning instructions

If the keypad is not used to drive the lock bolt or the boltwork, the keypad can be fixed into position.

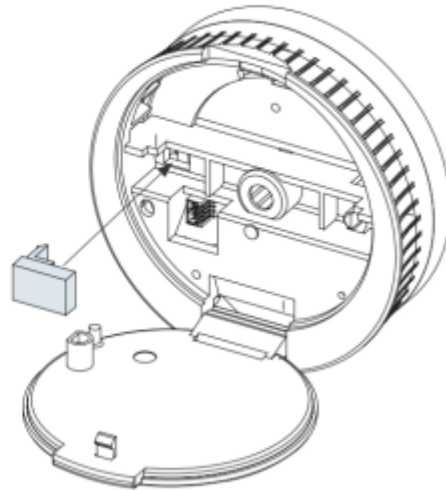
Depending on the mounting ring, this is done using a retaining screw or a plastic insert for clipping in.

For fastening ring with 4 holes



Attach hole \varnothing 3.4 mm into safe door to fasten the input unit

For fastening ring with 8 holes



Input unit Primor FL

Preparation for installation

The input unit can be installed from the outside or from the inside depending on the version.

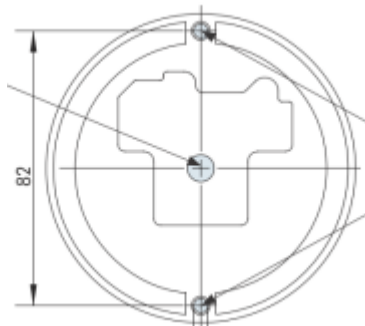
When installing from the outside, two M3 threaded holes with sufficient thread depth and a through-hole (cable aperture) must be drilled in the safe door from the front.

For installing from the inside, two through holes for M5 screws

and also a through-hole (cable aperture) in the safe door are required.

The hole diameter for the through-hole must not exceed 11.4 mm. A minimum diameter of 8 mm is required to route the plug through the hole.

Cable aperture: Drill hole min. \varnothing 8 mm/max. \varnothing 11.4 mm for connecting cable in safe door



Fastening position:

- Inner fastening: through-hole for M5 screws
- Front fastening: M3 thread

In contrast to keypads with an external battery compartment that is accessible through a flap or slide-in module, the power is supplied by a battery located inside the safe.

Two versions are available as battery carrier / battery compartment.

One version is a closed plastic housing and the other is a battery drawer.

There must be sufficient clearances / openings in the inner door panel.

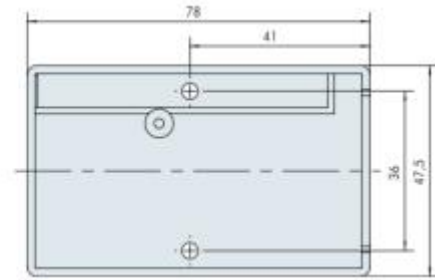
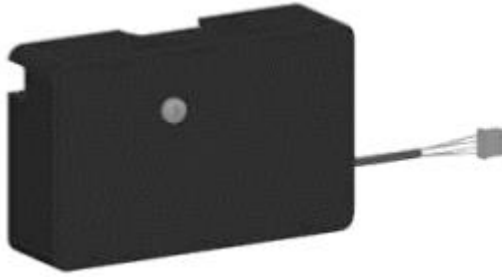
Battery compartments must be accessible without having to unscrew the inner door panel.

Anchor / Primor

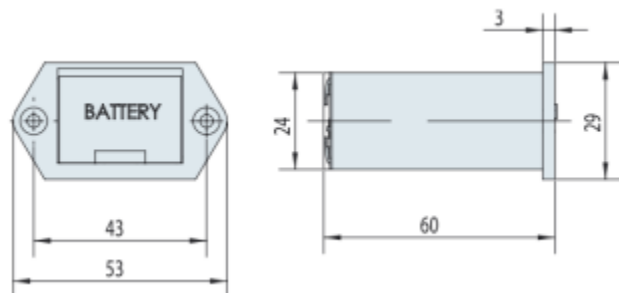
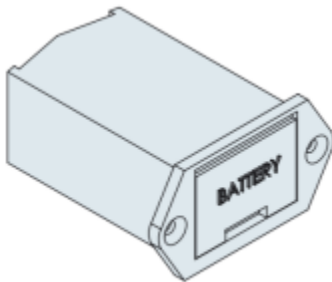
Keypad installer manual

Installation and commissioning instructions

Battery compartment:



Battery drawer:



The rear battery contacts in the battery drawer are exposed. To prevent short circuit(s)/self discharge, do not connect the battery drawer terminals to other components.

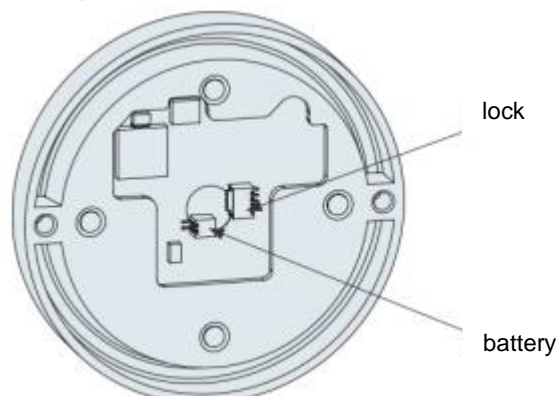
Cable routing / connector position

Guide the connecting cable through the hole and insert the cable's plug into the connector socket on the printed circuit board.

The power can be supplied either via the two-pole connector on the input unit or

directly on the lock via the signal box connection.

If connected to the keypad, the opening must be appropriately large enough or sufficient space must be provided.



Do not put any strain on the connection and battery connection cables.

Anchor / Primor

Keypad installer manual

Installation and commissioning instructions

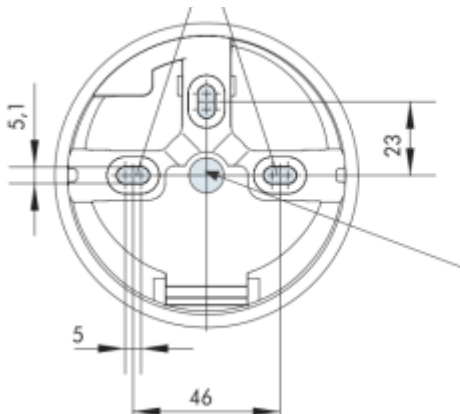
Input unit Primor FS

Preparation for installation

From the front, drill two M5 threaded holes with sufficient thread depth and one through-hole (cable aperture) in the safe door.

The hole diameter for the through-hole must not exceed 11.4 mm. A minimum diameter of 8 mm is required to route the plug through the hole.

Fastening position for M5 screws

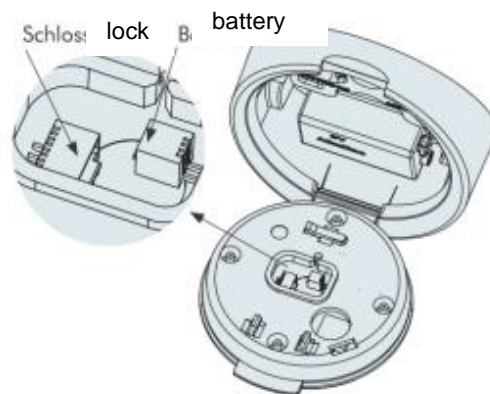
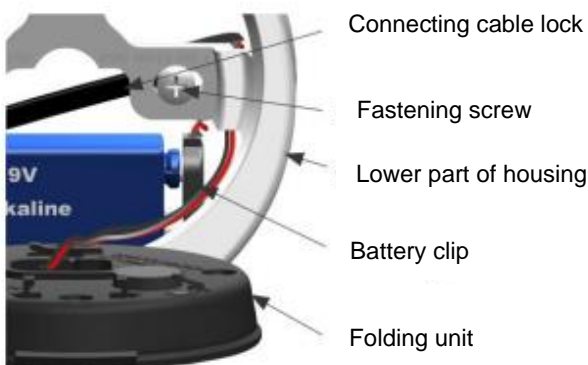


Cable aperture: Drill hole min. \varnothing 8 mm/max. \varnothing 11.4 mm for connecting cable in safe door

Cable routing / connector position

Guide the connecting cable through the hole and insert the cable's plug into the connector socket on the printed circuit board.

Lay the lock's connecting cable and battery's connecting cable behind the lower part of the housing of the input unit.



Do not put any strain on the connecting cable.

Input unit Primor SI

Preparation for installation

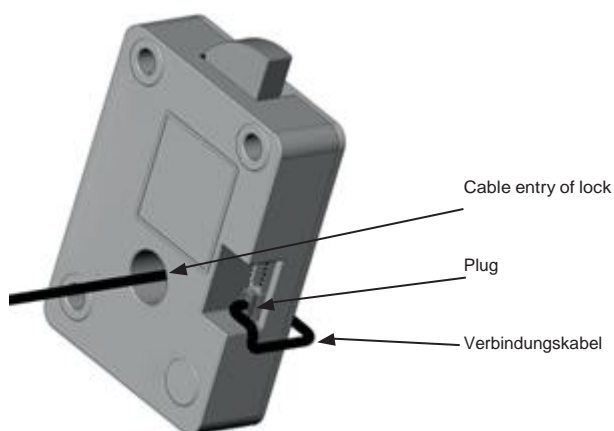
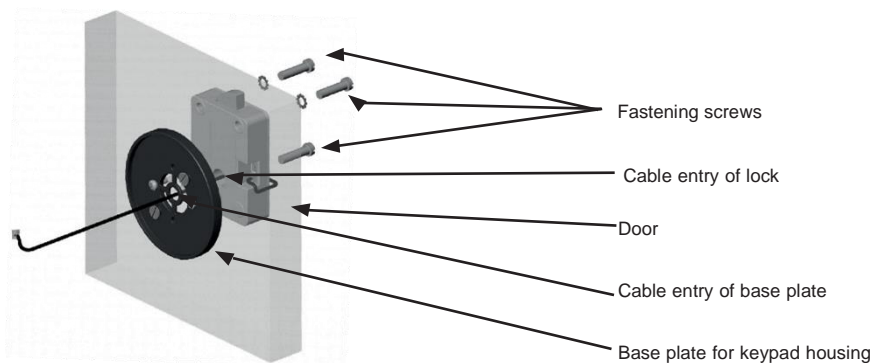
If the connection cable from the lock to the keypad is guided through a hole into the interior of the safe, a suitable drilling position, which corresponds to the VdS guidelines, must be defined.

In any case, it is important to ensure that the hole is located centrally in the area of the lock located behind it, in the middle of the cable entry of the lock and always in the center of the base plate of the keypad.

Ensure that the connection cable is not squeezed during installation and the insulation is not damaged.

Pull the connecting cable through the cable entry of the lock and insert the plug of the cable into the matching plug socket on the lock.

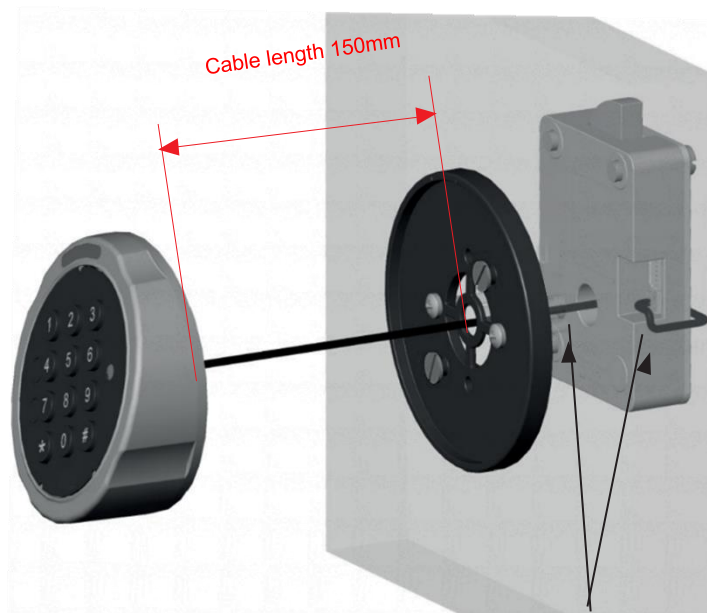
Then secure the lock to the bolt mechanism using three fastening screws.



Cable routing / connector position

A suitable strain relief for the connecting cable must be established between the plug connection of the lock and the mounting plate of the keyboard. This may be, for example, a cable fixer or something similar.

It is important that a sufficiently long piece of the connection cable (min. 150 mm) protrudes from the bore of the door, in order not to make the battery change unnecessarily difficult.



Strain relief between lock and mounting plate

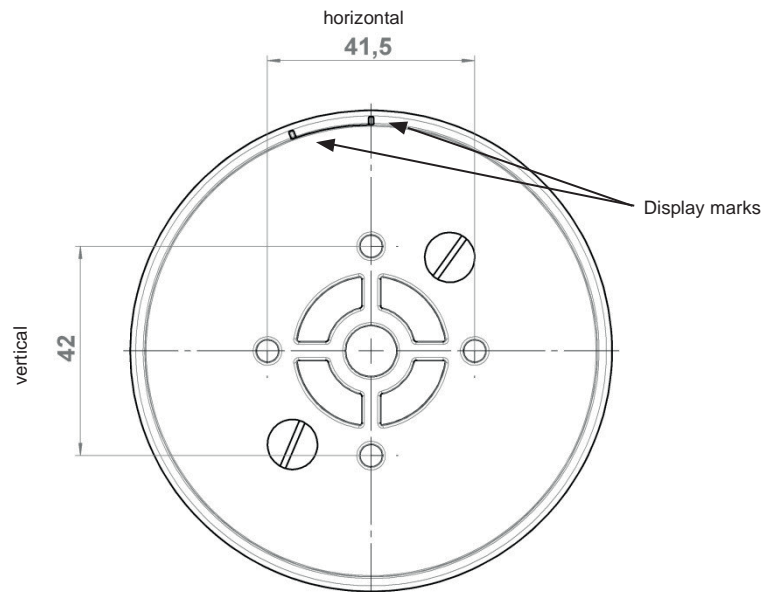
The keypad housing must be placed in the middle of the cable entry hole or the existing key hole.

Screw the mounting plate to the safe door. The base plate of the keypad must be securely screwed to the safety door using two screws (self-tapping screw DIN 7500

Form C M4 x 25 Cheese-head screws according to DIN 7985). The horizontal or vertical hole stencils can be used. (Fig. 5)

Care must be taken to ensure that the appropriate core hole diameters are inserted into the safe door for the respective screws.

The display marks must be at the top!



- Connect the connection cable „Lock - Keypad“ to the keypad.
- Connect a battery (9V block 6LR61) to the battery contact.
- Insert the battery into the lower part of the keyboard housing.
- Place the keypad housing on the base plate. In this case, the marking of the keypad housing must be aligned with the display mark of the base plate.

When installing the keypad housing, make sure that all cables are in the housing and that no cable is pinched between the housing and the base plate.

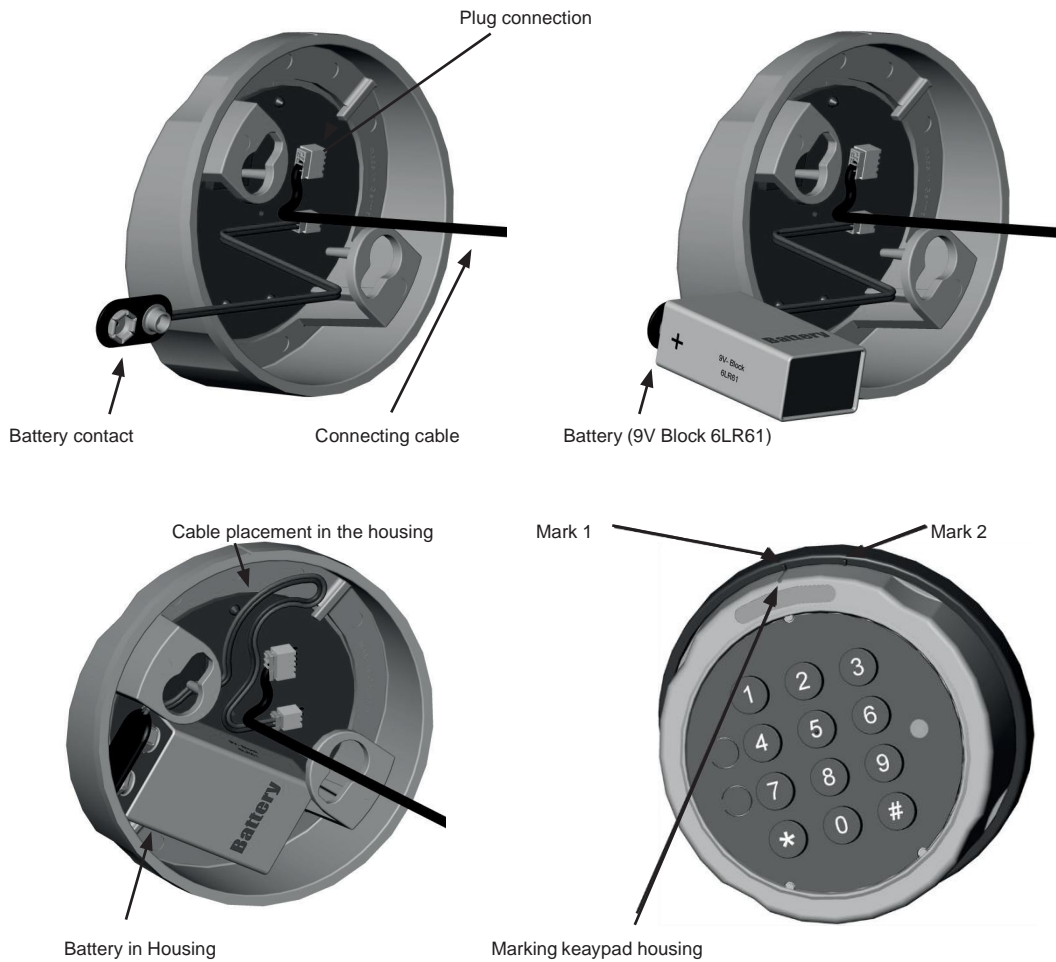
- When the housing is placed flat on the base plate, turn the keypad housing clockwise until the marking of the keypad housing is aligned with marking of the base plate.
- The system is now ready for use.

Check the proper operation according to the user manual with the door open.

Anchor / Primor

Keypad installer manual

Installation and commissioning instructions



During assembly / disassembly of the keyboard housing make sure there is an exact match between the marking of the housing and the indicator marks 1 or 2



Illumination

The illuminated keys of the PRIMOR SI input unit make it easier to enter codes even in low light conditions.

Together with the status messages of the LED, the lighting ideally supports lock operation.



Function test

In principle, only the electronic function of each of the listed input units can be performed with any lock of the Primor series via function 5 (keypad test). The

function of the entire system in conjunction with the lock and boltwork can be found in the installer's manual for the respective lock.

Keypad test

We recommend a final keypad test using function menu 5 to ensure that all the numeric keys function properly.

Checking the menu system

Press the keys in the sequence



Press each numeric key once. A functional key is indicated by a double signal tone. A key that is not recognised is indicated by a long signal tone and the function test is terminated. The system must be checked.

Replacing the battery

The lock is powered by a 9 V alkaline block battery. If the battery charge is insufficient, a warning tone is emitted several times in succession after the code has been entered and the red LEDs flash several times simultaneously.

Replace the battery as soon as possible. The programmed codes are retained while the battery is changed. Please always dispose of used batteries in an environmentally friendly manner.

To change the battery, slide the battery compartment open in the direction of the arrow:



Anchor / Primor

Keypad installer manual

Installation and commissioning instructions



When using the Primor FL and Anchor LC keypads, i.e. in systems with battery compartments located inside the safe, the corresponding compartments must first be opened. For the standard battery compartment, remove the locking screw (Phillips) and pull off the cover.

The battery lies in a plastic carrier in the battery drawer. This is unlocked by light pressure on the cover and can then be pulled out via the nail gill.