Anchor / Primor

Installer manual input unit

Installation and commissioning instructions

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.

Contents

General

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

For direct drive lock versions whre the bolt drive is done via an external axis, rotatable input units or with actuating knobs are available.
In combination with e.g. locks with a motor-driven bolt, these can also be used as a bolt work drive, depending on the application.

Also conceivable is the bolt drive via a separate handle or rotary knob operated via one of the fixed keyboards. If the wiring connection is not routed through the drive axle, the required wiring route must be selected in such a way that tools, probes, etc. cannot access the lock body through it. Holes for the cable outlet must be at least 8mm and may not exceed a maximum of 11.4mm.

Always use the following sequence for installation:

- Check the preconditions for installation
- Preparing for installation: Drill the fastening holes and door hole (spindle/axis)
- Wiring / installation of the cables
- Function test

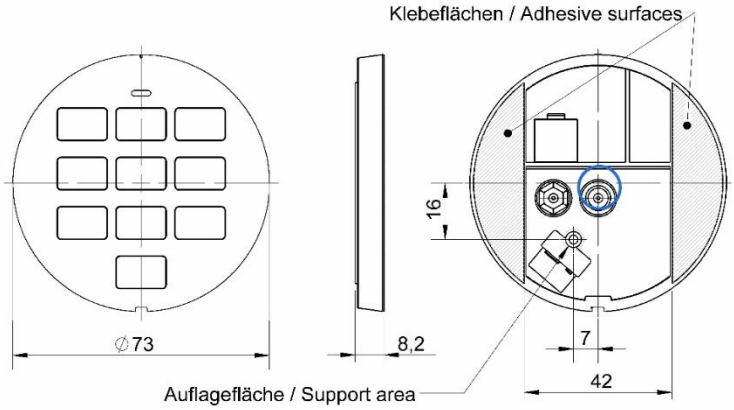
Installation

Input unit Anchor LC

Preparation for installation

Drill a through-hole of Ø 8mm, max. 11.4mm for the wiring in the door, make sure there are no burrs on both sides. Set the hole position in the middle of the input unit, see drawing.

Clean the adhesive surface for the input unit free of dust, oil, release agents and other contaminants, allow the adhesive surface to dry.

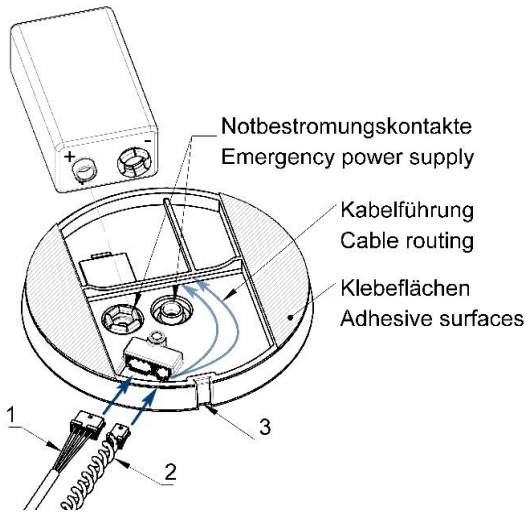


Plug the lock connection cable (1) into the 4-pin socket of the input unit.
If the input unit is supplied with power via the battery compartment, plug the battery cable (2) into the 2-pin socket.

Lay the cables side by side on the underside of the input unit, see drawing.

Carry out an assembly test – do not loosen the adhesive tape:

Carefully push the cables back into the through hole in the door, taking care not to damage the cables. Align the input unit on the door and place it on the mounting surface. Check the cable routing on the underside of the input unit. The cables must not be jammed or loosened. Correct the cables if necessary.
After a successful installation attempt, remove both adhesive strips, check the cable routing, align the input unit and press firmly onto the prepared surface on the door.



Note on dismantling / emergency power supply:

To dismantle the input unit, insert a screwdriver of the appropriate size into the groove of the input unit (pos. 3 see drawing), avoid scratches 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 RE

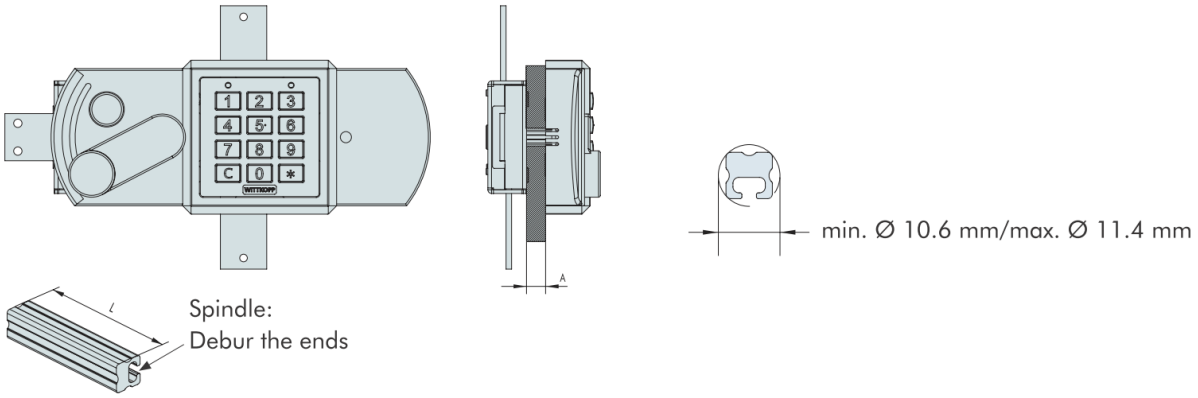
Preparation for installation

Drill four M5 threaded holes with sufficient thread depth and one through hole (cable outlet/connecting axis) in the safe door from the front.

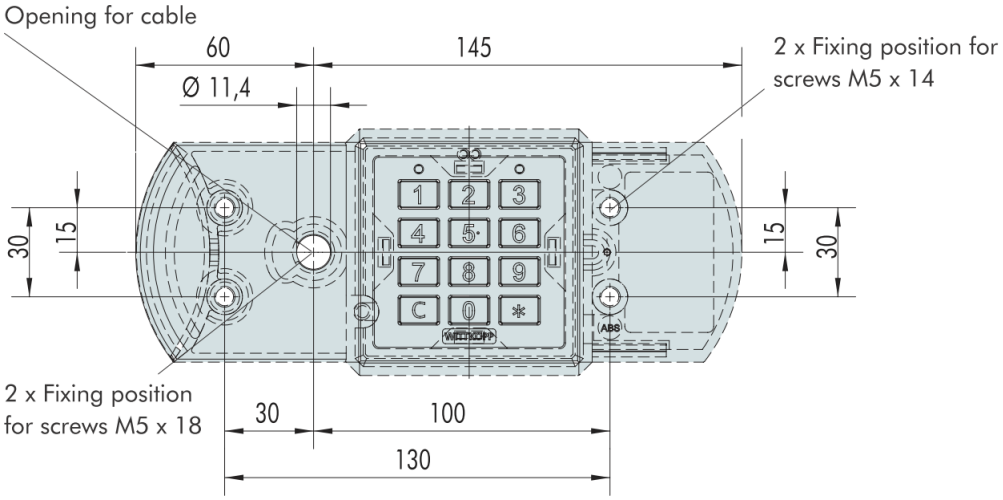
The diameter for the through hole drilling may not exceed the maximum of 11.4mm.

The square axis requires a minimum diameter of 10.6mm.

The spindle length / axis in connection with locks of type P100 is calculated from the sum of the door thickness and the axis length of 35mm guided in the lock and keypad. (Tolerance -2mm.)



L = A +35mm (tolerance -2 mm)

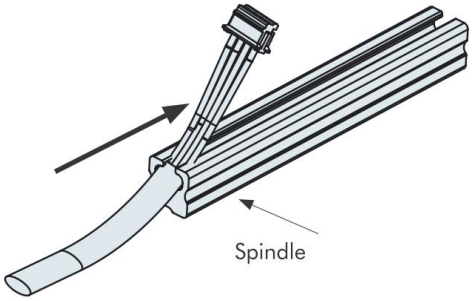


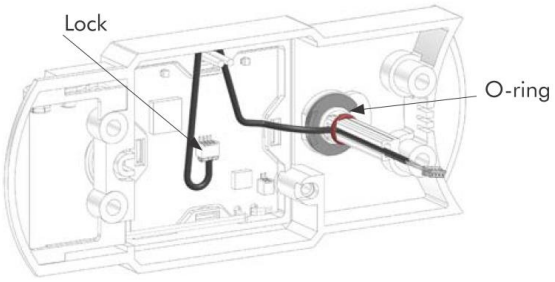
Cable guidance / plug position

Lead the connection cable through the Spindle. Push the cable and the O-ring in the direction of the arrow until the inset.

Connect the plug of the cable with the plug on the circuit board.

Don’t put the connection cable under tensile stress.

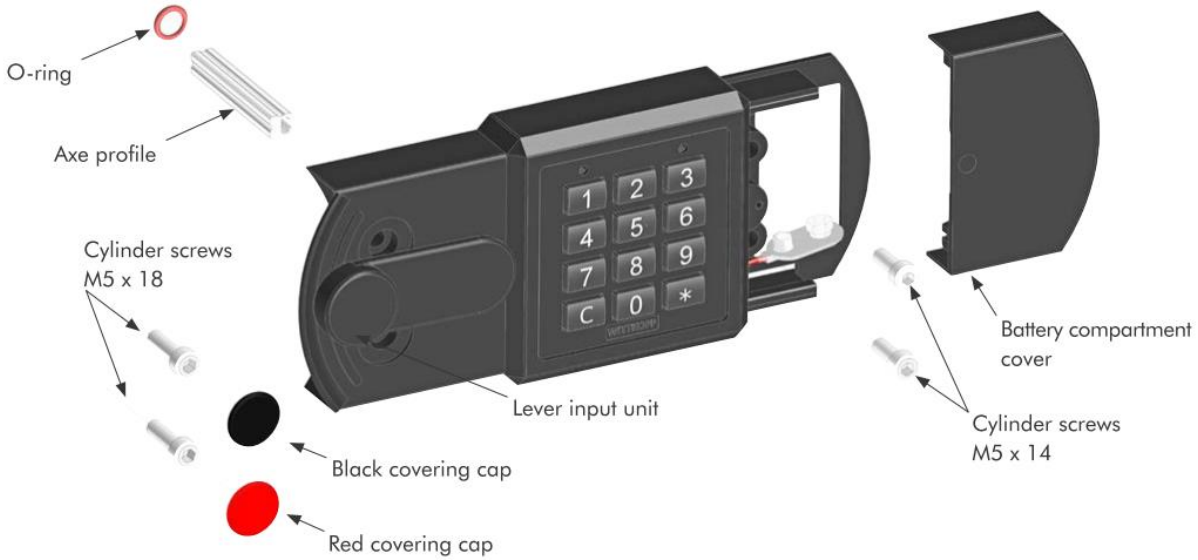




Installation

Fasten the input unit from the front with the supplied M5 screws.

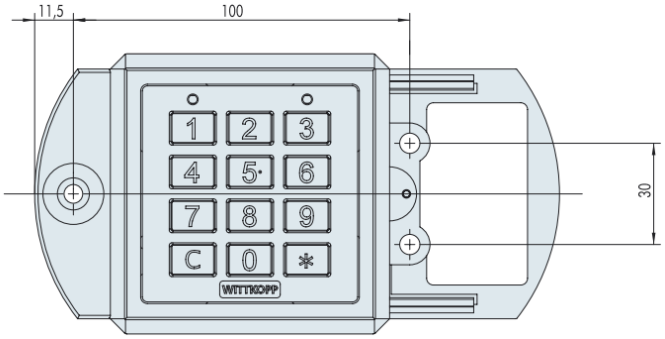
Then mount the cover caps and battery compartment cover.



Input unit Primor FE

Preparation for installation

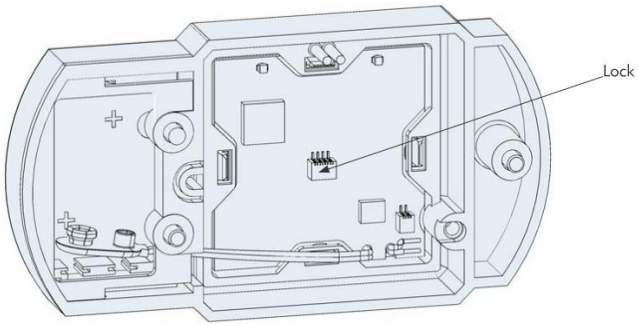
From the front 3 threaded holes M5 with sufficient thread depth and 1 through-hole (opening for cable/Spindle) have to be drilled into the safe door.



Cable guidance / plug position

Connect the plug of the cable with the plug on the circuit board.

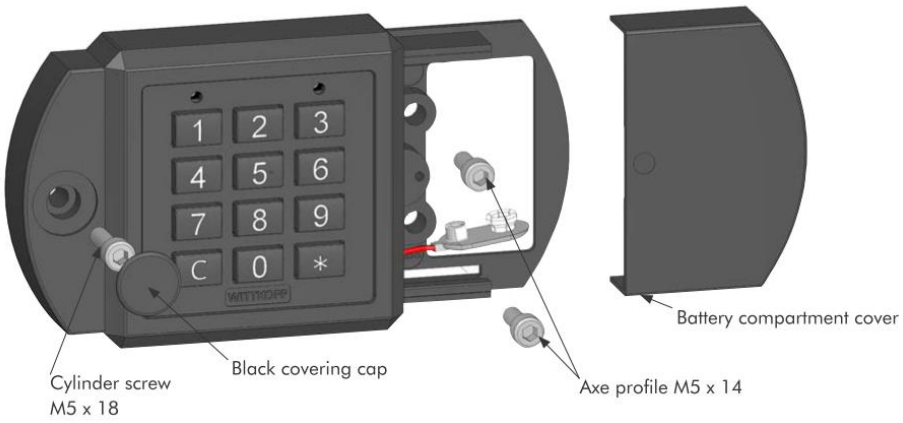
> Don’t put the connection cable under tensile stress.



Installation

Fix the input unit from the front with the enclosed cylinder screws M5.

Install covering caps and battery compartment cover.



Input Unit Primor RO

Preparation for installation

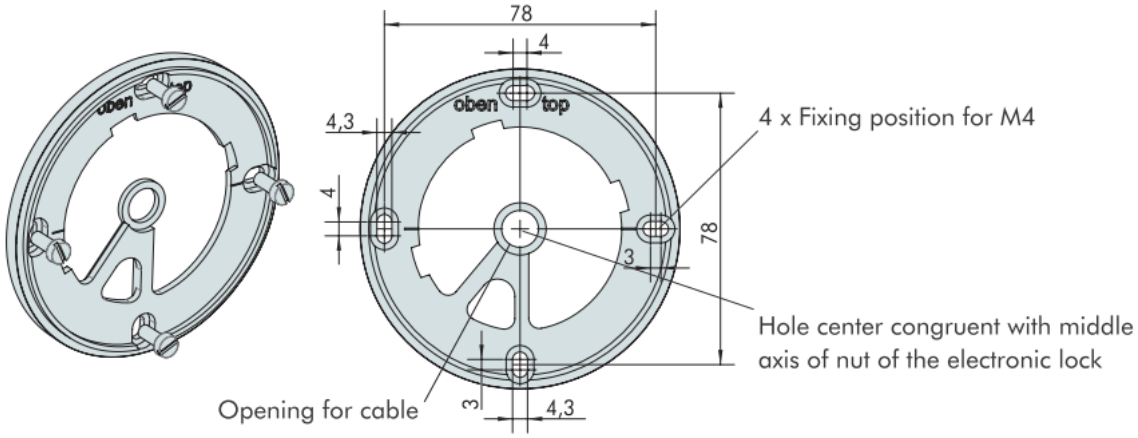
From the front 4 threaded holes M4 with sufficient thread depth and 1 through-hole (opening for cable/Spindle) have to be drilled into the safe door.

The diameter for the through hole drilling may not exceed the maximum of 11.4mm.

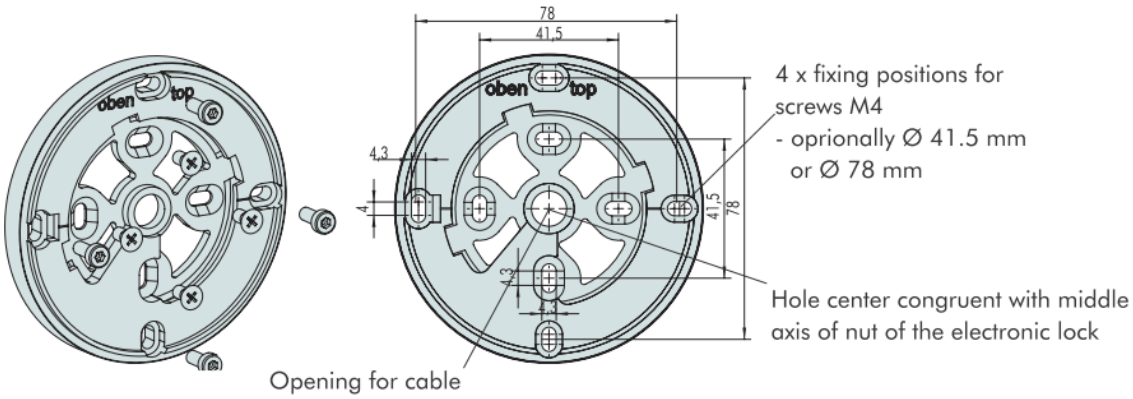
Two axle versions are available for this type. A square axle is used as standard, which requires a minimum drilling diameter of 10.6 mm.

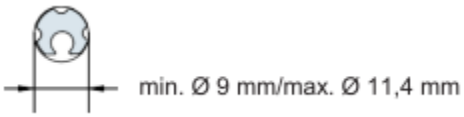
A rounded spindle, which can be used with a diameter of at least 9mm, is available for retrofitting an existing keyhole instead of the through hole.

Drill pattern fixing with 4 threaded holes Primor RO



Drill pattern fixing with 8 threaded holes Primor RO

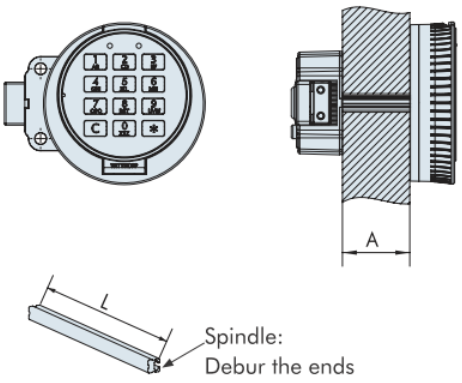


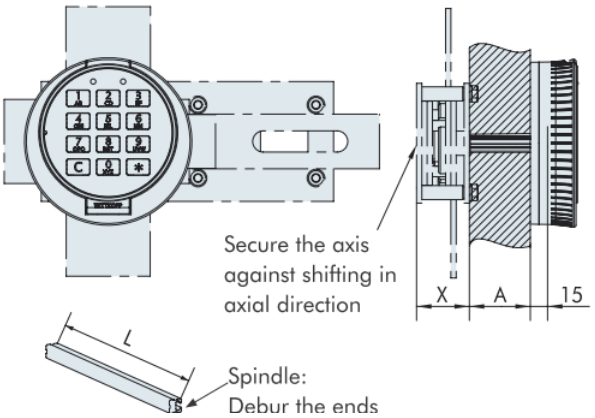


The rounded axis can naturally transmit less torque.
It is therefore unsuitable as a bolt work drive

The spindle length in connection with locks of the type P2000 is calculated from the sum of the door thickness and the axis length of 43mm guided in the lock and keypad. (tolerance -4mm)
For locks of the A/P2600 series, the length is calculated from the door thickness and guided axis length of 35mm.
(tolerance -3mm)

In the case of boltwork drives, the door thickness and the axis guide within the boltwork plus any necessary axial protection are added to the immersion depth of the axis in the keypad guide of 15mm. (tolerance -4mm)





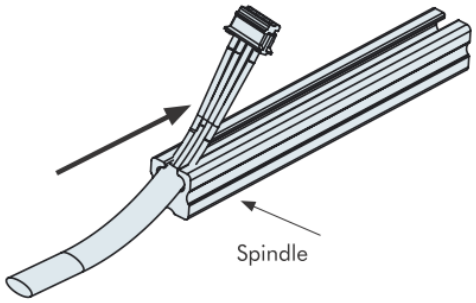
Primor 2000: L=A +43 mm (tolerance -4mm)
Anchor 2600: L= A+35mm (tolerance -3mm)

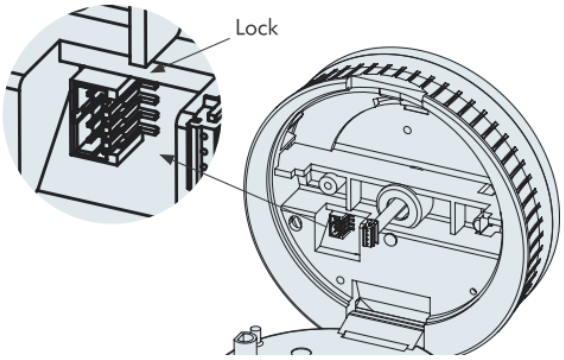
L = A + 43 mm

Cable guidance / plug position

Lead the connection cable through the spindle and insert it into the input unit from behind. Then plug the cable into the socket on the printed circuit board.

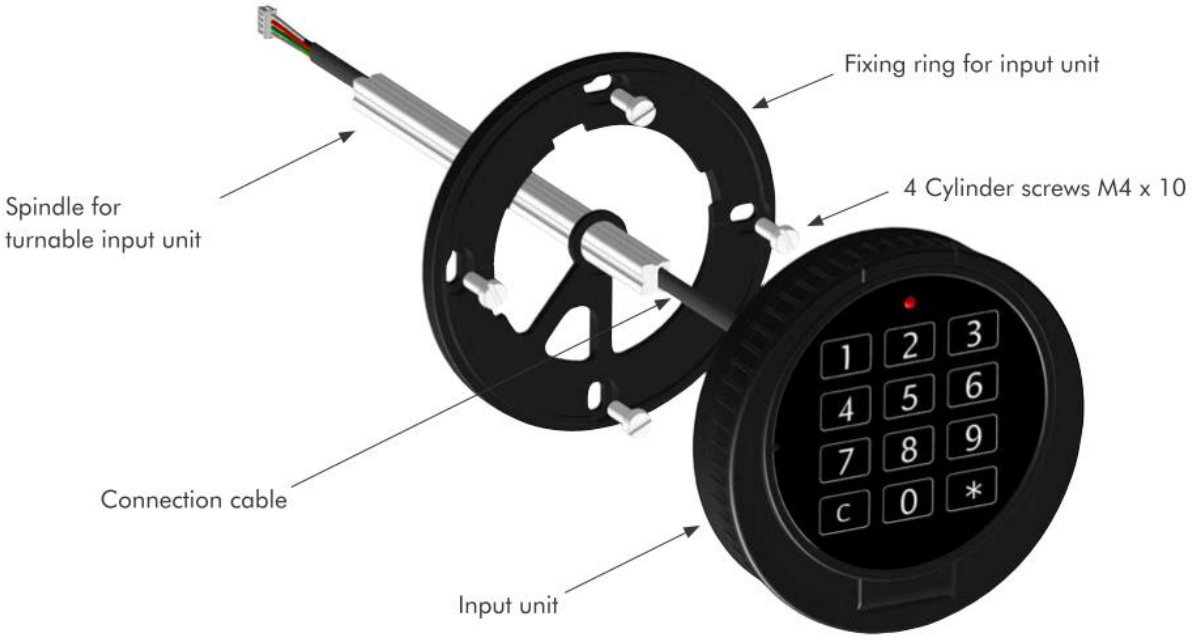
Don’t put the connection cable under tensile stress.



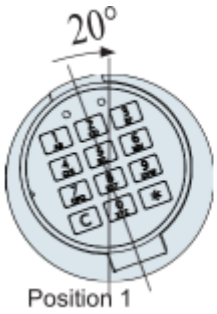


Installation

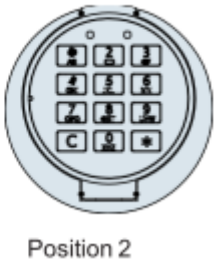
Fix the mounting ring with the enclosed screws.



Mount the input unit with an angle of approx. 20° to the fixing ring. (Position 1).

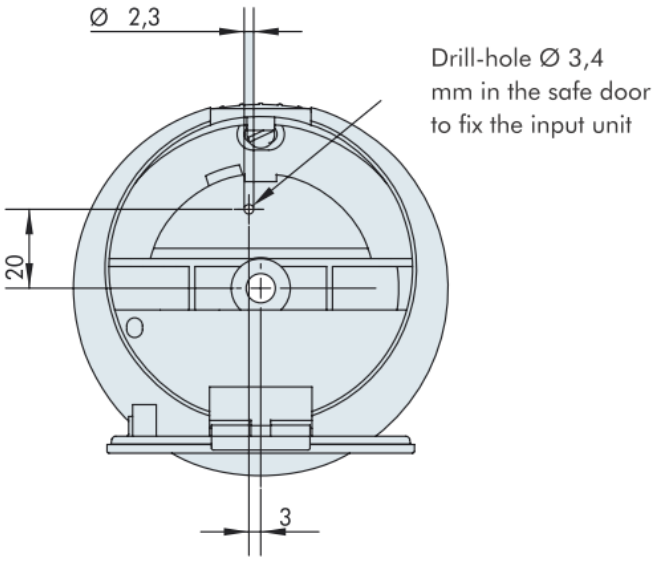


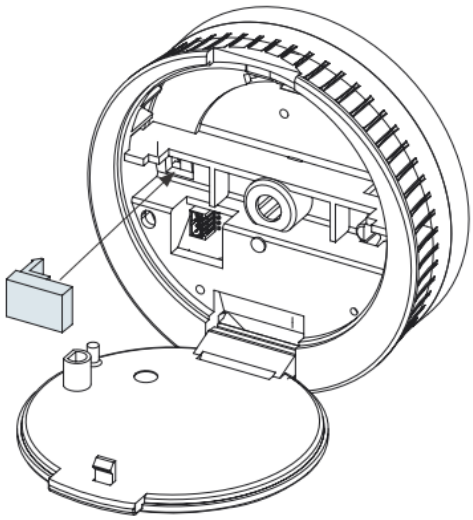
Turn the input unit to the right into position. The turning has to happen easily.



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

Depending on the mounting ring, this is done with a retaining screw or a plastic insert to clip in.





Input unit Primor FL

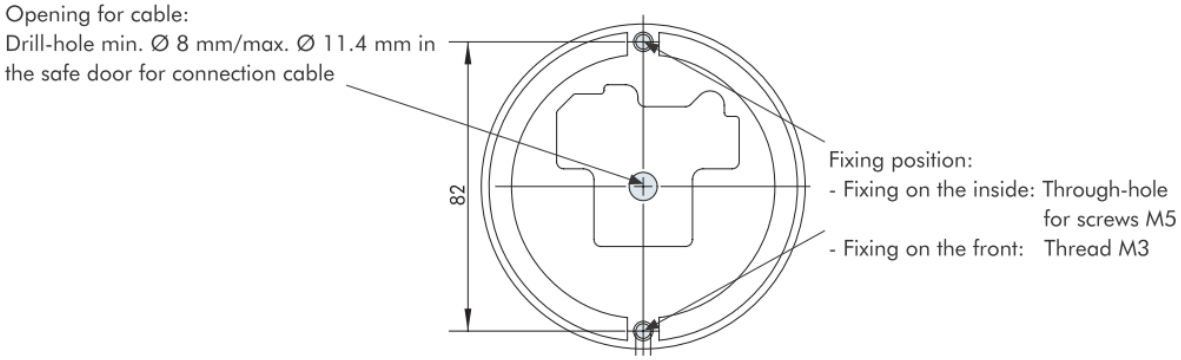
Preparation for installation

Depending on the version, assembly is done from the outside or from the inside.

When fastening from the outside, there are two threaded holes M3 with sufficient thread depth and one on the front required. Drill a through hole (cable outlet) in the safe door.

Two through-holes for M5 screws and also one through-hole (cable outlet) in the safe door are required for fastening from the inside.

The drilling diameter for the through hole may not exceed the maximum of 11.4mm. A minimum diameter of 8 mm is required to be able to feed the connector through.



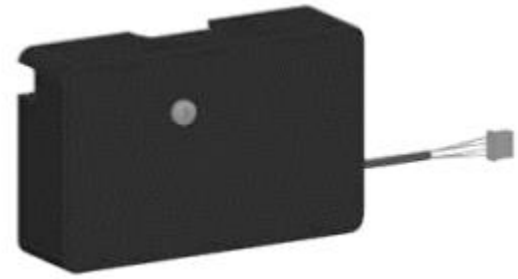
Different to keyboards with an external battery compartment accessible via a flap or slot, the power supply is provided by a battery housed inside the safe.
Two versions are available as a battery carrier / battery compartment.

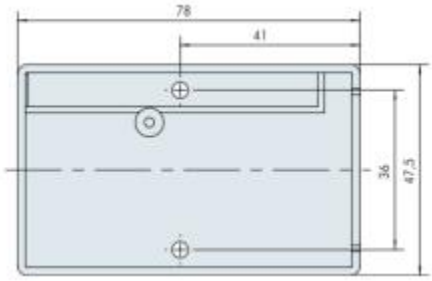
Once as a closed plastic housing and as a battery compartment.

Appropriate clearances/openings must be provided in the inside door paneling.

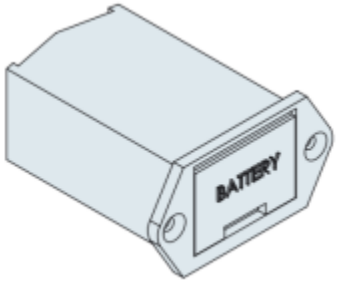
Battery compartments must be accessible without unscrewing the inside door panel.

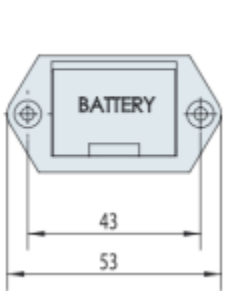
Battery compartment:

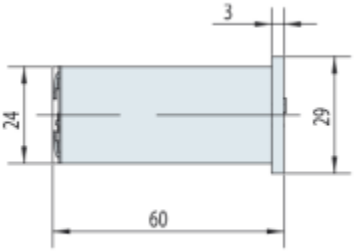




Battery sliding compartment:





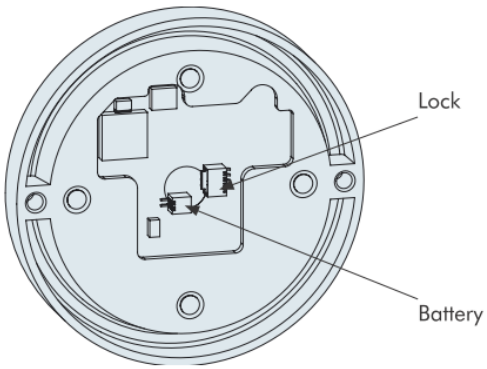


The rear battery contacts are exposed in the battery drawer. To avoid a short circuit/self-discharge, the connections of the battery compartment must not touch other components.

Cable guidance / plug position

Lead the connection cable through the hole and plug the cable plug into the socket on the printed circuit board.
Power can be supplied via the two-pole connector on the input unit or directly on the lock via the connection for a signal box.

In the case of a connection to the keyboard, the opening must be chosen large enough or the necessary space must be cleared.



Don’t put the connection cable under tensile stress.

Anchor / Primor

Installer manual input unit

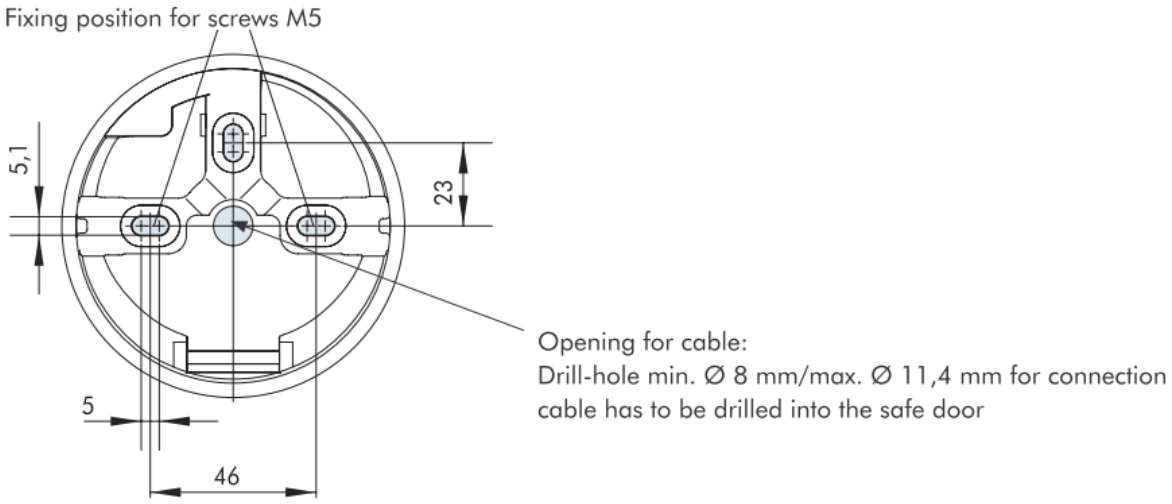
Installation and commissioning instructions

Input unit Primor FS

Preparation for installation

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

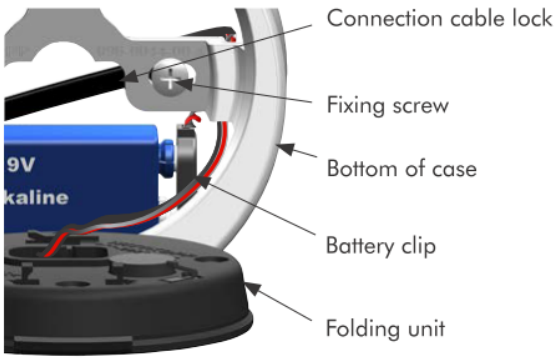
The drilling diameter for the through hole may not exceed the maximum of 11.4 mm. A minimum diameter of 8 mm is required to be able to feed the connector through.

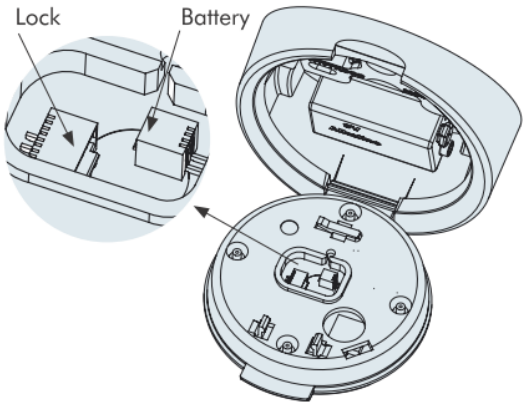


Cable guidance / plug position

Lead the connection cable through the hole and plug the cable plug into the socket on the printed circuit board.

Put the connection cable for the lock and the connection cable for the battery behind the lower part of the housing of the input unit.





Don’t put the connection cable under tensile stress.

Function test

In principle, only the electronic function of each of the input units listed can be carried out with any lock from the Primor series using function 5 (keyboard test).

The function of the overall system in connection with the lock and boltwork can be found in the installer 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.

5 ♪ ☼ Checking the menu system

Press the keys in the sequence

1 2 3 . . . 9 0

♪ = ✓

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.

Battery change

The lock is powered by a 9 V alkaline block battery. If the battery charge is insufficient, a warning tone sounds several times after the code has been entered and the red LEDs flash several times at the same time.

Change the battery as soon as possible. The programmed codes are retained during battery changes. 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:

When using the Primor FL and Anchor LC type keyboards, i.e. systems with battery compartments inside the safe, the corresponding compartments must first be opened. In the case of the standard battery compartment, the safety screw (Phillips head) must be removed and the cover pulled off.

The battery in the sliding compartment is in a plastic holder. This is unlocked by gently pressing on the cover and can then be pulled out via the nail box.