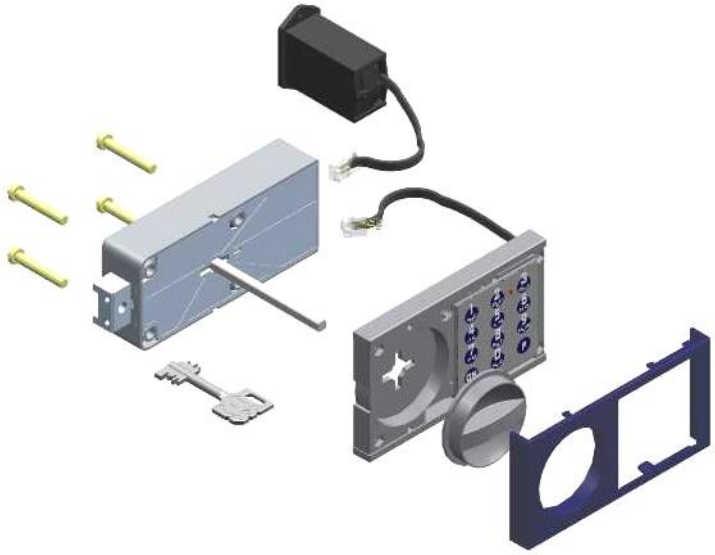


1 General

These mounting instructions are the basis for the approval by ECBS, VdS, A2P (CNPP), DNV or UL. Installation of the lock exclusively in accordance with these instructions.
Guidelines of the national certification bodies are to be considered and complied with in addition.

- Use high quality alkaline/manganese monobloc batteries only. Low quality batteries may cause oxidation which results in a functional failure of the lock.
- Avoid residual crystalline moisture in the cabinet (e.g. from varnishing) so as to prevent attack of the electrical contacts.
- Make sure that ingress of dirt or detergents (e.g. remaining fillers or cold cleaners) is prevented.
- Do not grease/oil the lock or key.

2 Mounting instructions for lock and control unit

- **RH version (standard version):**

Lock mounting position	
Bolt left, keyhole horizontal	
Lock downwards, keyhole vertical	
Lock upwards, keyhole vertical	

- **LH version**

Lock mounting position	
Bolt right, keyhole horizontal	

- Any variation of the lock or key may result in functional trouble and must better not be done. All claims under guarantee and warranty will expire in this case.
- Lock fastening: Use of M6 steel socket head cap screws or BSW ¼" steel bolts. The length of engagement must correspond to the applicable standards considering the thickness of the lock of 30 mm and the screwing height of the lock case of 24 mm.
- Fastening screws: minimum property class 4.8 and maximum property class 8.8.
- Screws to be secured either by lock washer, flat spring, tooth lock washer, fan type lock washer considering the diameter (d1) or to be cemented
- Screw tightening moment: minimum 5 Nm and maximum 6 Nm.
- The bolt must be floating in installed condition.
- Perfect function of the lock and of any additional connected or triggered systems (e.g. boltworks) must be warranted and checked by specialists during installation of the lock.
- The lock must be mounted in closed condition (bolt extended).
- The opening (cable gland) in the door of the secure storage unit may not be greater than 100 sq. mm (see mounting drawings on Page 5 and following).
- The lock is designed for installation in secure storage units made of steel. Installation in storage units consisting of other material e.g. plastic is not allowed.
- Do not apply any kind of force (e.g. hammer blows) for screw fitting and adjustment of the lock.
- Lock to be installed covered and so as to prevent opening by boring.
- The two way key must be insertable without jamming.
- It is recommended, that unauthorized persons have no access to security sensitive parts of the lock, also the door of the safe, where the lock is installed, is open.
- Use of the Kaba Mauer key guide (see Fig. 1) is recommended. Considering DIN 2768-mH, the keyhole in the door of the secure storage unit should be dimensioned accordingly (see Fig. 1).

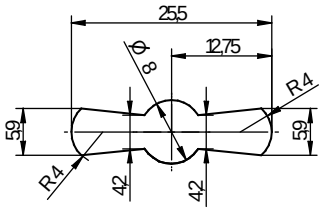


Fig. 1: Key Guide 86101

- In cases where the Kaba Mauer key guide or key carrier guide are not used, the maximum cross sectional area of the keyhole in the door of the secure storage unit and/or the lock armour plating may not exceed the dimensions given in Fig. 2 considering DIN 2768-mH. All dimensions deviating from these specifications are to be coordinated separately with the certification bodies (test houses).

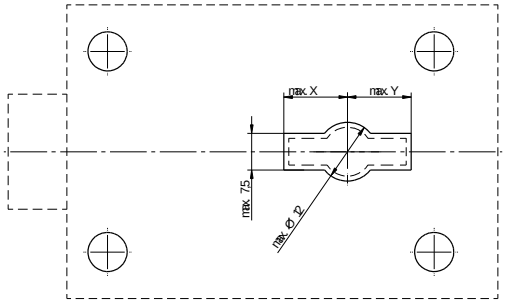


Fig. 2: Maximum cross sectional area of keyhole

Code-Combi B	X (mm)	Y (mm)
71161	17	12.5

- For installation and adjustment of the lock on the door, make sure that the key can be inserted into the lock without having to apply force and without jamming. This can be achieved by mounting the lock according to the following pattern of mounting holes (Fig. 3). For further lock dimensions please refer to the Kaba Mauer Catalogue Sheet.

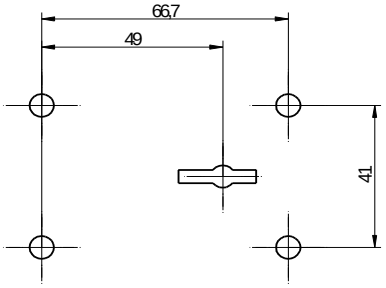


Fig. 3: Mounting hole pattern

Technical data:

- Lift height of bolt 12 mm
- Bolt in fully extended position: approx. 14mm
- Bolt width: 25,4 mm; Bolt height: 15 mm
- The maximum allowable force acting on the key bolt against the blocking direction, the maximum locking force and the lateral load acting on the bolt, correspond to 1 KN and should not exceed this value. Provision should be made design wise for bolt stoppers on both ends or for a bolt support.
- The actuating torque on the key / the spindle must not exceed 2.5 Nm
- Fastening of the boltwork: via two M4 threads on the front end of the bolt head
- Optional fastening of the boltwork: via a drift pin in the bolt head
- The bolt was according to EN1300 with a permanent load of 2,5 N over 10.000 cycles tested. These load should not be exceeded permanently.

3 Mounting of the control unit

- Two possibilities are available for fastening of the control unit:
  1) from the inner side of the door by M4 screws and M4 nuts in the control unit
     (the screw length depends on the thickness of the door, screws are not included in the scope of supply, however)

  or
  2) from the outer side of the door by M4 cheese head screws
     (length of screws to be selected accordingly, screws are not included in the scope of supply)

- **Cutting to size of the actuating spindle (before mounting): the required length results from the "clearance between mounting plane of lock to mounting plane of control unit" + 40 mm (tolerance – 0.5 mm). Cutting to size on the end without a bore, only!**

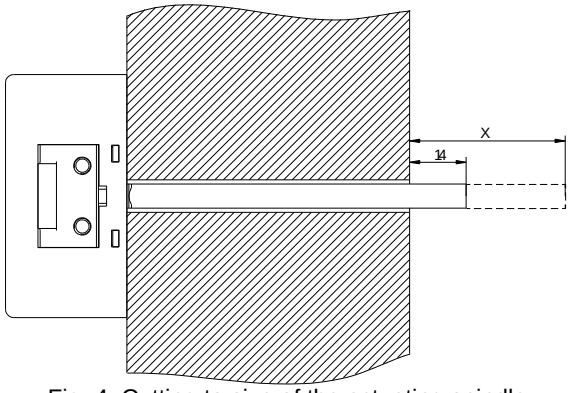


Fig. 4: Cutting to size of the actuating spindle

Actuating spindle to be inserted into the lock as far as it will go with the bored end ahead.
Proper function of the lock warranted only this way.

4 Cabling

- Connectors to be plugged in as follows:

Marking on the lock case	Cable connection for
Marked „input unit“	6-pole connecting cable to the electronic input system
Marked „power“	4-pole operating voltage (battery compartment)

- Confusion of the connecting cables does not produce any damage of the electronic system of the lock. The lock will not be operable in this case and must be connected correctly in accordance with the circuit diagram.

- Always press the latching clip of the plug against the plug housing for disconnecting the plugs and sockets. Do not pull out plug reaching for the plug housing or the cable.

- Make sure that the connecting cable is not damaged during installation. Cable sheathing or flexible leads must not be impaired, otherwise hazard of a short circuit. Protect the cable by protective hoses or plastic pipes in the area of transition and moving parts. Make sure also that the cable is not buckled or installed in pinched condition.

5 Adjustment /final check

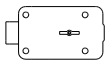
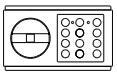
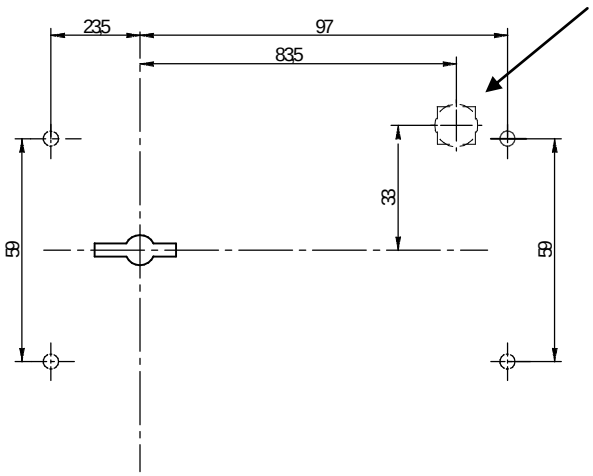
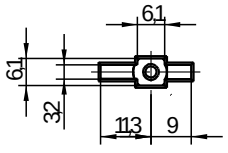
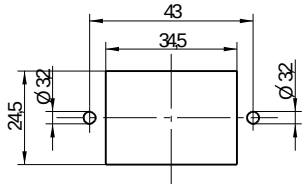
- The bolt is correctly adjusted when the bar dolly after slight clockwise turning jumps back by resilience to its horizontal home position. After turning of the bar up to stop position, the bar dolly may remain in stop position.

- Make sure when opening the lock that the bar dolly can be moved smoothly.

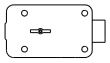
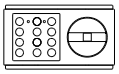
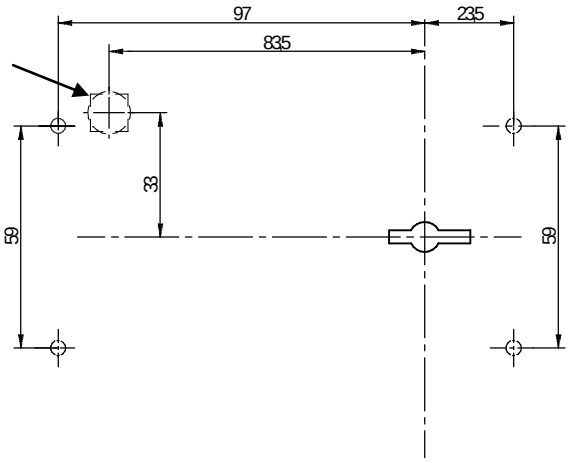
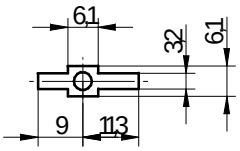
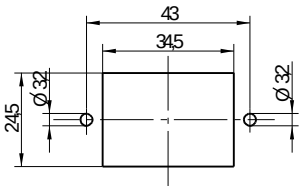
- Function of the lock to be tested in accordance with the operating instructions. Also check the mechanical opening by the two way key.

6 Assembly drawings

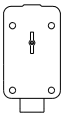
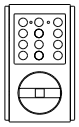
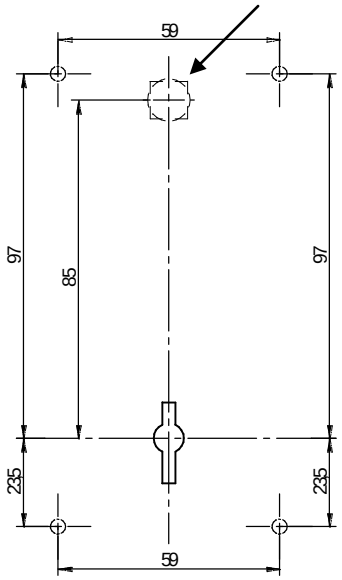
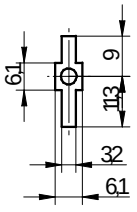
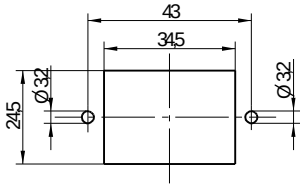
6.1 82132/33 Code-Combi B with plastic control unit 98851/0001

Lock mounting position	
Control unit mounting position	
Door penetrations	Cable gland ⍁ 10 mm or Ø 11,25 ± 0,05 mm 
Keyhole (in lock)	
Separate battery compartment	 Depth of battery compartment approx. 60 mm

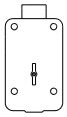
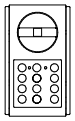
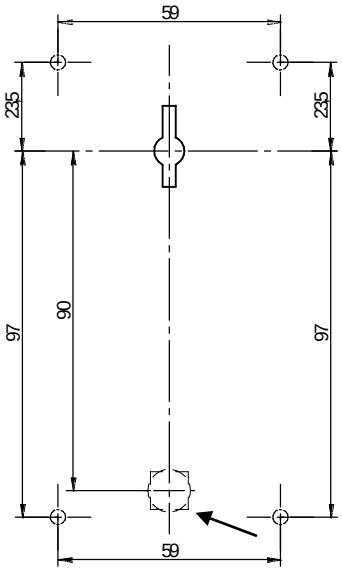
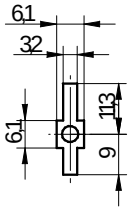
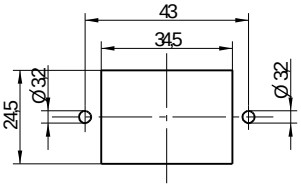
6.2 82132/33 Code-Combi B with plastic control unit 98851/0002

Lock mounting position	
Control unit mounting position	
Door penetrations	Cable gland ⍁ 10 mm or Ø 11,25 ± 0,05 mm 
Keyhole (in lock)	
Separate battery compartment	 Depth of battery compartment approx. 60 mm

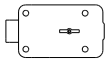
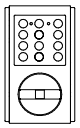
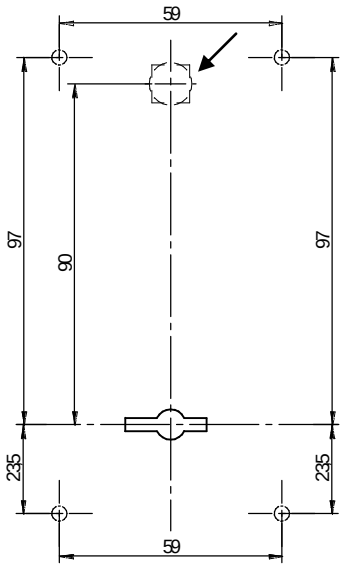
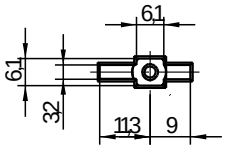
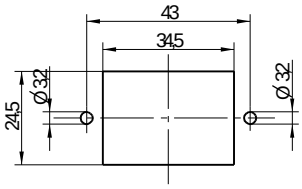
6.3 82132/33 Code-Combi B with plastic control unit 98852/0001

Lock mounting position	
Control unit mounting position	
Door penetrations	Cable gland ⍁ 10 mm or Ø 11,25 ± 0,05 mm 
Keyhole (in lock)	
Separate battery compartment	 Depth of battery compartment appprox. 60 mm

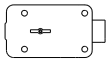
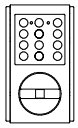
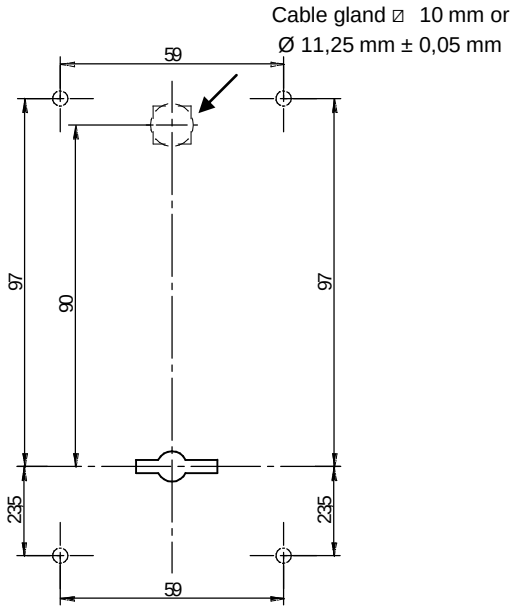
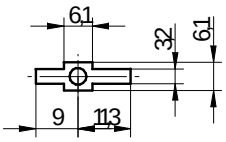
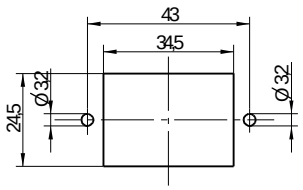
6.4 82132/33 Code-Combi B with plastic control unit 98852/0002

Lock mounting position	
Control unit mounting position	
Door penetrations	 Cable gland ⍁ 10 mm or Ø 11,25 mm ± 0,05 mm
Keyhole (in lock)	
Separate battery compartment	 Depth of battery compartment approx. 60 mm

6.5 82132/33 Code-Combi B with plastic control unit 98852/0003

Lock mounting position	
Control unit mounting position	
Door penetrations	Cable gland ⍁ 10 mm or Ø 11,25 mm ± 0,05 mm 
Keyhole (in lock)	
Separate battery compartment	 Depth of battery compartment approx. 60 mm

6.6 82132/33 Code-Combi B with plastic control unit 98852/0004

Lock mounting position	
Control unit mounting position	
Door penetrations	
Keyhole (in lock)	
Separate battery compartment	 Depth of battery compartment approx. 60 mm