# Mounting instructions
for electronic locks E4500 and E6500

Mounting the control panel

Mount control panel by screwing it on through the holes in the plastic part. Make absolutely sure the cables are routed without any tensile stress. Please note that for some products the cross-sections of the boxouts required for routing of the electric cables are not allowed to be larger than 100 mm². Any components located behind the control panel (i.e. the safe door) must not come into contact with the rear of the keypad PCB. The earth cable of the control panel on lock type E6500 has to be hooked up to the mass potential of the safe.
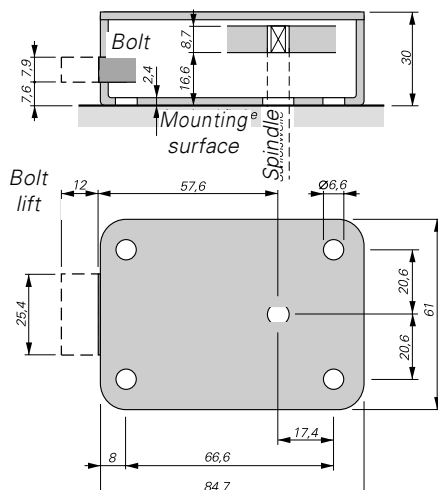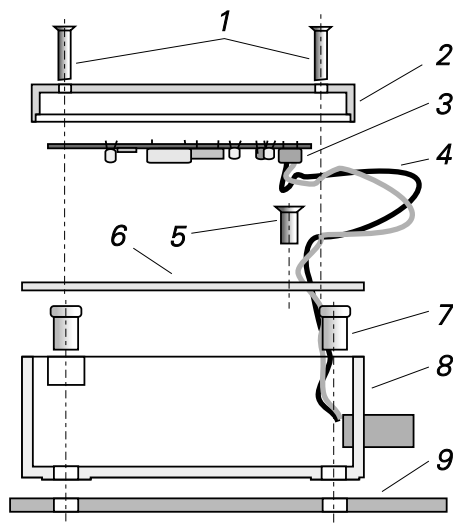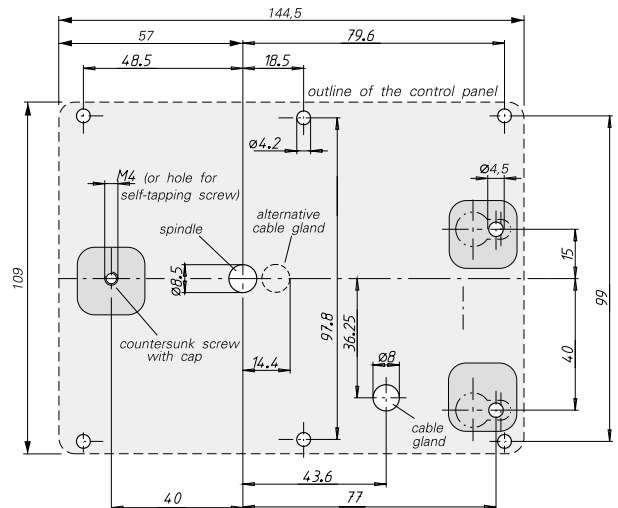

Mounting the electro-mechanical locking assembly

There are no restrictions as to where the assembly should be mounted. Even so, make sure the lateral angle of deviation of the drive spindle does not exceed 2°. Protect the lock module, as well as the electronics, against direct or indirect access from outside by mounting adequately dimensioned armouring. There must be at least two spaced steel plates, with a minimum thickness of 3 mm each, between the lock module and the outer surface of the door. Take the necessary precautions to stop dirt, dust or humidity from entering the locking assembly while it is mounted. The electric cable must not be subjected to tensile stress, not even during installation. The locking assembly must not be oiled, greased or varnished. To mount the lock module, unscrew the two screws 1) and remove the housing of the electronic components (2) and the electronic module (3). Carefully put these parts to the side as far as the length of connecting cable (4) will allow. Unscrew the two screws (5) and open the lock cover (6). The lock (8) can now be fastened to the mounting surface (9) with the four screws (7).

N.B.

The screws located near the bolt can only be fastened while the lock is unlocked, whereas the screws on the opposite side can only be fastened while the lock is in the locked position.

Please note that the lock can only function well, if the relative humidity is kept below 95 % (non-condensating). This means that the concrete structure bordering on the protected area must be dry.
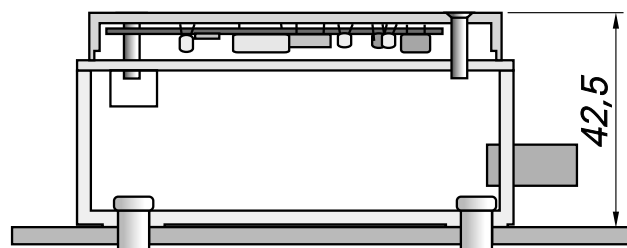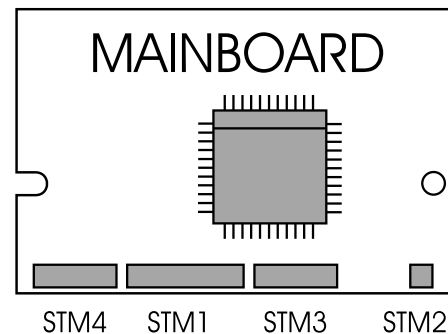
Connecting the daughter board

Mount the daughter board on a flat surface in the vicinity of the lock module with two screws. The system consists of a terminal strip for connecting external signal lines and a power supply unit.
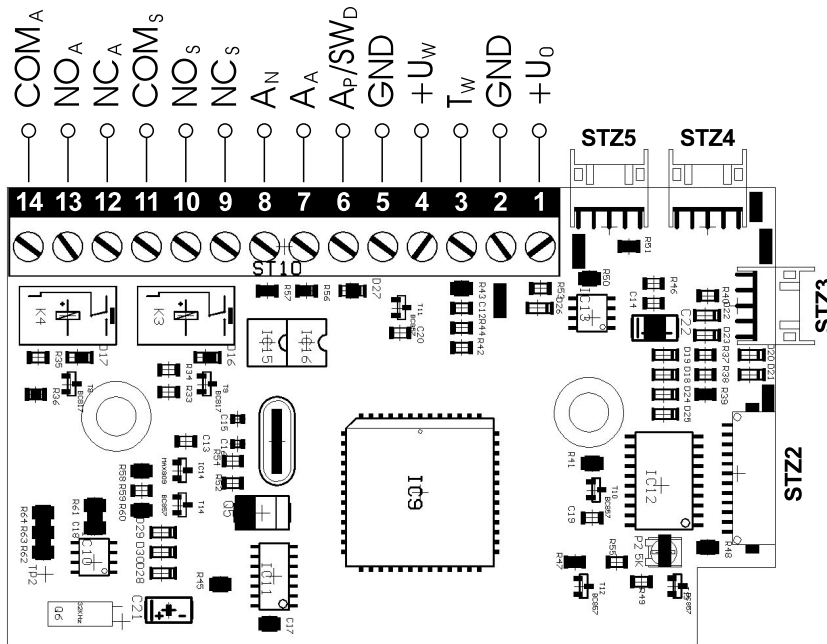
Connecting of components:

1. Fasten control panel cable A (black tube) to the mother board with plug STM1.
2. Fasten control panel cable B (yellow tube) to the daughter board with plug STZ2.
3. Fasten connecting cable A (brown litz wires) between plug STM3 on the mother board and plug STZ5 on the daughter board.
4. Fasten connecting cable B (blue litz wires) between plug STM4 on the main board and plug STZ4 on the daughter board.
5. Fasten the cable of the electromechanical lock module to the main board with plug STM2.
6. Interface plug STZ3 on the daughter board is used for data transfer of the recordings.

Terminal strip on the daughter board

Terminals 1 and 2: Power supply from an external power supply unit;

Terminals 3, 4 and 5: For connecting the external radio-controlled clock module;

Terminals 6, 7 and 8: For connecting the lines to the external security center. Terminal 6 supplies 12V; in case of alarm, the security center goes from terminal 6 (12 V) to terminal 7, in normal condition from terminal 6 to terminal 8. The door opening contact is connected between terminal 6 and connecting pin 6 of plug STM3 on the main board. You can only enter the programming mode with the door contact open.

Terminals 9, 10 and 11: Potential-free contacts for signaling to the security center that the first and second access codes were keyed in successfully.

Terminals 12, 13 and 14: Potential-free contacts for signaling a manipulation alarm (this switching operation takes place after the fourth wrong entry).