

Installation instructions

TULOX lock system



Lock:

Model 4.17.1000.3, VDS 2/ EN1300 B

Model 4.17.1010.3, VDS 2/ EN1300 B

Input unit

Model 4.17.0010.0

Model 4.17.0020.0



Information regarding lock operation can be found in the separated operating instructions.

Use

STUV products have been designed to meet the strictest of demands and provide the highest level of reliability. Use and installation recommendation and our comprehensive consultation provide you with support in choosing our products.

STUV – high security locks of the 4.17.10 series have been designed for use on safe doors. Checking suitability for the corresponding application is always the user's responsibility!

Caution!

The exact bolt work positioning and mounting are a significant for the lock functioning trouble-free. The lock mechanism must set up precisely both horizontally and vertically. The connection shaft may not be under tension during installation and must turn easily. Electronic lock and keypad have to run parallel!

When setting up the screw connection for anchoring the lock, be sure that it will be secured against self-loosening. Vibrations or shaking may not cause the attachment to come loose.

No countersunk screws may be used to anchor the keypad. Otherwise, there is danger that the base housing will be damaged and function will be compromised.

Anchoring the lock

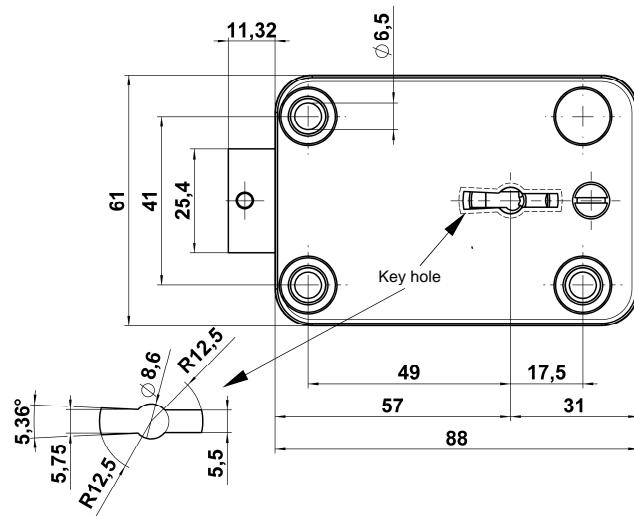


Image 1

Anchoring dimensions for lock, anchored using, for example, 3 screws

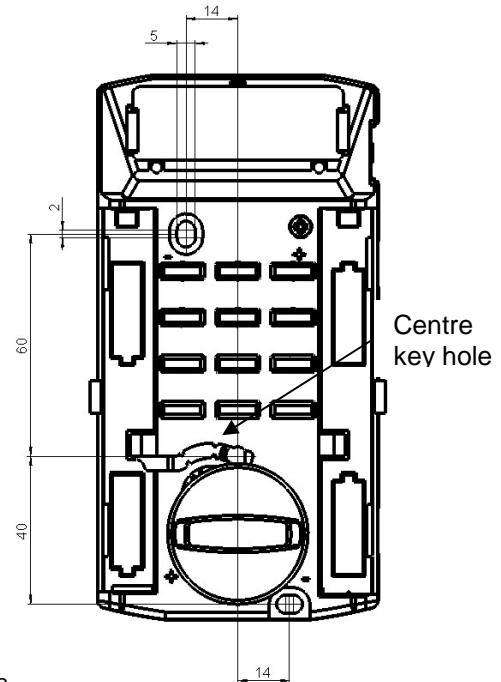


Image 2

Anchoring dimensions for keypad are the same with and without display, anchoring using, for example, 2 cylinder head screws

When using lock models without additional mechanical redundancy (i.e. without a key), a $\varnothing 9\text{mm}$ drill hole will be needed instead of the keyhole.

Protecting the lock from outside effects

When installing the lock on a safe, be sure there is sufficient protection against forceful external attacks. The keyhole on the safe door or armour-plating may not go beyond the area indicated on the drawing (Image 1).

Mounting attachment parts on the lock's bolt

Clearance must be guaranteed for the bolt while it closes. When using rods, angles, etc., structural measures must be implemented to avoid blocking the bolt horizontally or frictionally. The lock has been tested with an actuating force of 2.5 N.

The locking force in the activation direction and horizontally to the bolt has been tested with 1 kN. Higher locking forces must be retained by, for example, supporting the bolt.

VdS recognition will cover only those installations carried out in compliance with these instructions.

Changes made to the lock are only permissible by consulting with STUV in writing.

Preparing for installation

If the desired locking direction for the lock does not correspond with Image 3, then you'll have to remove the spring, pull the gear wheel out of the base body and turn it into the desired position in **90° intervals** (Image 4)

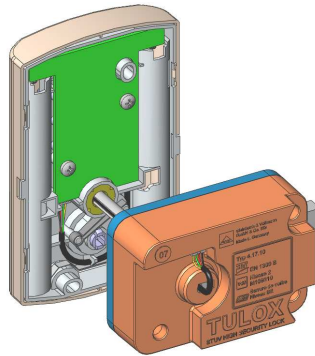


Image 3

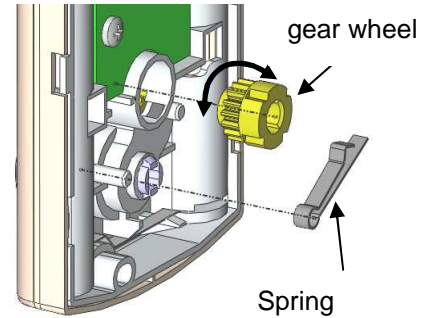


Image 4

Cable guidance

The installation example shown here has the advantage that only one aperture has to be made in the safe's door for the connecting axis and the connecting cable.

1. Shorten the connecting shaft to the dimension needed:
Length of connecting shaft = distance between the support points on the lock and keypad + 41mm
2. Run the connection cable into the connection shaft (Image 5)

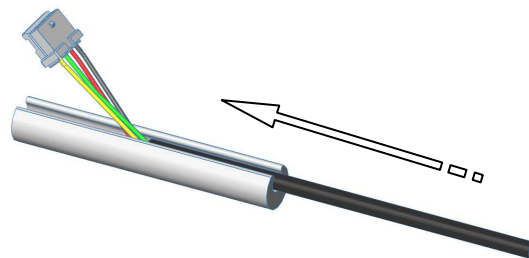


Image 5

3. The cable is prepared at the factory to be run as shown in Images 6 and 7.

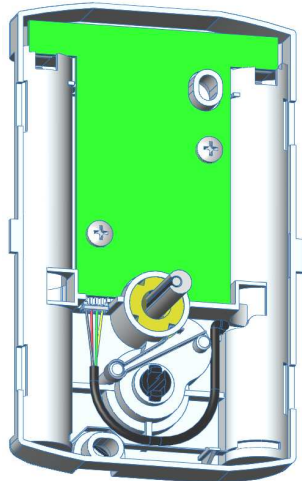


Image 6

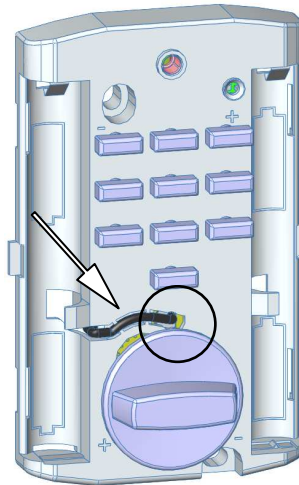


Image 7

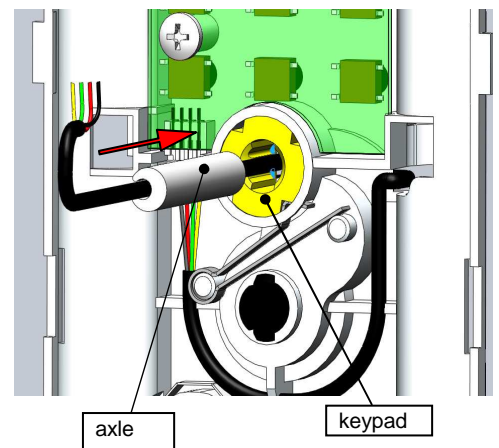


Image 8

Caution! Make sure that the cable is run around the screw head and cannot be clamped.

When sticking the axle in the keypad, the axle must be pushed all the way in (Image 8). The axle-lock connection is very tight in the last ca. 3mm!

Screw the keypad down using 2 cylinder head screws with washers tight enough that it holds well but is not damaged.

Alternative cable guidance

Alternatively, you can run the cable through a separate drill hole into the interior. When doing so, however, you'll have to independently determine a drilling position which does not infringe upon VdS guidelines. Definitely be sure, however, that the drill hole is not in the area of the lock behind it and that the hole will later be covered by the keypad.

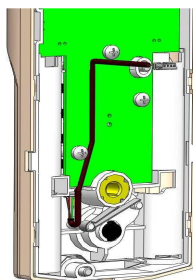


Image 9

Lock

1. Run the cable through the lock (Image 10).
2. Place the lock on the axle (Image 3).
3. Screw the lock down tightly using 3 screws.
4. Plug the connection cable into the socket (Image 10)

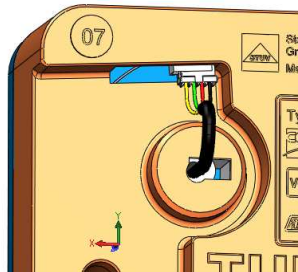


Image 10

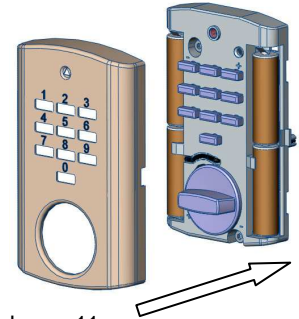


Image 11

5. Insert the batteries (4x, 1.5V, alkaline, AA, mignon, LR6) in the keypad.
6. Be sure the polarity is correct, see illustration on base.
7. Place the cover back over the base and snap it on by applying light pressure. (Image 11)

The TULOX electronic safe lock system has now be successfully installed. Check for proper function using the operating instructions.

Dismounting / changing batteries

There are slots on the left and right of the cover flap for dismounting the keypad. You can use a screwdriver (blade width of 8mm, for example) as a lever to pry the cover off the base (Image 12).

After you have taken off the cover, you will see the batteries and the attachment screws. The keypad can be dismounted by following the opposite order as installation.

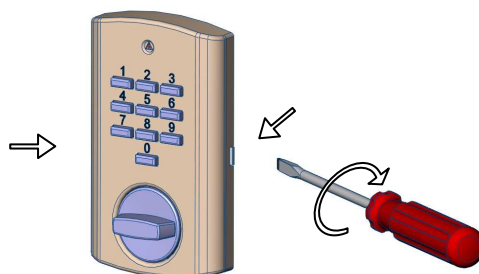


Image 12