

# Tantum Basic / MLS

Mounting instructions VO2 EN

Made in The Netherlands



## TANTUM BASIC / TANTUM MLS



## **1** IMPORTANT INSTRUCTIONS

- Before mounting the lock, please read the instructions for use carefully.
- Ensure that you only program the lock when the safe is open.
  After changing the code, always try the code several times with the safe door open.
- Only after several positive function tests (opening / closing) the safe door can be closed.
- Each key entry is confirmed by an audible tone and visual signal. These signals are not referred to in the description that follows.
- You have a maximum of 10 seconds for each key entry. If you do not make an entry via the keypad during this period of 10 seconds, the entry procedure will automatically abort. You then have to start from the beginning.
- After entering a valid code, you will hear two audible tones. An invalid entry will trigger a long tone.
- If you accidentally enter an invalid code at the first attempt, you must wait 20 seconds before you re-enter the code.
- Our products fulfil the EN1300 requirements regarding resistance against electrostatic charge.
  In fact it may happen that the electrostatic charge of a user exceeds the extreme value many times.
  That's why we are asking you to touch the metal surface of the safe for discharging before operating the lock.

The certifications of our locks are valid only if used together with the entry units indicated on the respective certificates. As soon as an entry unit not specified on our certificates is used, the certification of the lock expires immediately.



2

### ! Caution!

- The lock has been designed for use in a temperature range from +10°C to +50°C and a noncondensing humidity range from 30% to 80%.
- It may only be cleaned with a moist cloth (do not use aggressive cleaning agents).
- The lock may only be installed by qualified fitters.
- The lock may not be lubricated.
- Never open the lock housing. If it is necessary to disassemble the hardware, only do so in accordance with the technical instructions. If you fail to do so, the lock may no longer function properly and you will forfeit your right to warranty.

## 2 CHARACTERISTICS

The motor lock can be mounted in all four mounting directions. The mounting dimensions are standard. The lock is delivered with metric (M6) mounting screws.

The electronics feature a 6-digit main code (in some cases it may be that the lock requires a 7-digit code) that can be changed by the user. With the main code user code(s) can be activated and deleted.

After entering a valid code, a double signal sounds and the motor will retract the lock bolt. You can now open the door/bolt work. Closing the lock can either be done automatically by closing the door/bolt work (Automatic Closing) or by pushing a random digit on the keypad (Push to Close). The default closing mode is Push to Close. The main code can change the closing mode to Automatic closing. To achieve "Automatic Closing" it is imperative that a door-/bolt work switch (NC=Normally Closed) is connected to the lock.

If the door is not opened within 5 seconds, the lock will automatically lock again in case "Automatic Closing" is active.

A signal will sound every 10 seconds as long as the lock is open in case "Push to Close" is active. Three long tones will sound when during opening or closing the lock bolt is blocked. Entering the code again will close, respectively open the lock again. Remove the obstruction and retry.



The certification of this lock is based on this mounting instruction. Read carefully.

The force applied to the lock bolt should not exceed 1 kN. If higher force is applied, please consult with the manufacturer / certificate holder (M-LOCKS). Only use supplied screws (M6) to mount the lock. Tightening torque 4,5 Nm.

The position of the cable entry depends on the input unit used. The Tantum motor lock is available with and without drill protection. When installing the lock behind a cable feed-through / opening always the lock with the factory anti-drilling protection (Tantum anti drill) must be used.

Attention! The certification of the lock types 'Tantum anti drill' is only valid with the drill protection applied at the factory. The standard dimensions are 30x45x1.5 (LxWxH, in mm). The lock loses its certification if you retrofit the drill protection yourself. Depending on the area of application, construction and resistance class of your secure storage unit, it may be possible that you need a stronger drilling protection or that the lock shall be protected by other constructive measures to achieve the required resistance class.

A lock without drilling protection shall not be installed behind an existing cable guide / opening. The maximum size of the cable / spindle-hole must not exceed a diameter ( $\emptyset$ ) of 15 mm or the contour of the key hole shown below.



The lock has to be fitted exclusively on a steel secure storage. The mounting base also must be made of steel. Installation on other materials only after consultation with M-LOCKS or certification institute.

It is recommended to prevent access to unauthorized persons to safety-relevant parts of the highsecurity lock when the safe is open. For instance by a with screws fixed interior cover.

The lock housing must be protected against destructive attacks from outside with suitable protective materials .



The force applied to the bolt work on the lock bolt has to be limited to 1 kN (E.g. by a preconceived breaking point). Please contact your manufacturer if higher forces are needed. Only use supplied screws to mount the lock.



In the LOCKED position the distance between the bolt and the bolt work should be approximately 1 mm.

Check on the boltwork handle to see if the lock is locked.



Mount the entry unit following the manufacturer's instruction.



- 1. Battery- or Alarm box
- 2. Keypad cable
- 3. Door/bolt work switch (NC)



Insert the connector of the entry unit in in position 2 and check that the connector is completely seated.

Connect a 9V alkaline Procell, Duracell, Energizer or Duracell Industrial battery to the battery clip to the keyboard (or battery box), and check the lock functions.

Please lay the cables in such a way that they are not kinked, that the cables are not crushed and that there is no friction with moving parts of the boltwork.

When installing the cable, make sure that the connecting cable has enough space between the lock and moving parts. We recommend a distance of at least 5 mm and a fixation of the connecting cables e.g. by means of cable ties.

If the distance between the cable and the lock is too small, the manufacturer (M-LOCKS) can provide you with special M6 spacer bolts (increase the distance by 6 mm) or longer M6 / polyamide-coated fastening screws.

When using longer fastening screws, it is possible to independently increase the distance (lock / bolt-work) using metal spacer washers / bushings.

In this case, please ensure that the fastening screws still have sufficient engagement with the fastening points of the boltwork.

# 6 FUNCTIONAL TEST

As with all locks from M-LOCKS, this unit has a unique feature for checking the electronics (both that of the input unit and that of the lock): 'Function 5'.

**Press and hold key '5'** until you hear a double tone. The LED will illuminate when performing the following actions:



Next, press all of the keys in one by one and one after the other.



lf the key = OK 🎵

If the key = not OK J, the test will be aborted.

If one or more keys do not operate properly, please contact your supplier.

### Perform this functional test always with door open!

#### Functional test

- Enter code. The lock emits a double signal for the correct code.
- When the lock bolt is fully retracted turn bolt work handle towards OPEN position.
- Turn handle towards LOCKED position.
- In case the lock is programmed with Push to Close, push a random digit on the keypad. The lock should close now.
- In case the lock is programmed to close automatically the lock should close as soon as the bolt work is in the fully closed position (signalled by a door/ bolt work switch).
- Make sure there is an air space on all sides of the lock bolt when the safe's bolt work is fully thrown into locked position.



#### Installation check

With door open, bring bolt work in LOCKED position:

- Avoid continuous pressure on the lock bolt.
- During the movement of the bolt work the cables should be clear of moving parts.

#### Only after several positive function tests (opening / closing) the safe door can be closed!

## 7 DATASHEET

		Tantum Basic / Tantum Basic anti drill	Tantum MLS Tantum MLS anti drill
Opening		Automatic	Automatic
Locking		Automatic / Push to Close	Automatic / Push to Close
Blocking element		Motor	Motor
Mounting dimensions		Standard	Standard
Possible mounting positions		4	4
		Tantum Basic / Tantum Basic anti drill	Tantum MLS / Tantum MLS anti drill
Power supply		9V Alkaline Duracell, Procell or Energizer block batteries	
Software	Codes	2 (6 digits)	Up to 10 (6 or 7 digits)
	Manager Codes	1	1
	User Codes	1	Up to 9
	Time delay / open window	01-99 min / 01–19 min	01-99 min / 1-19 min
	Battery low signal	Yes	Yes
	Volume adjustable	Yes	Yes
	Silent alarm	Yes	Yes
	Dual mode	-	Yes
	Audit 200 events	-	Yes
	Manipulation protection	5 minute lockout after 4 consecutive wrong codes	



## 8 NOTES



M-LOCKS BV Vlijtstraat 40 7005 BN Doetinchem The Netherlands

If you need some help, please send an E-mail to: service@m-locks.com

We will be happy to help you!

WWW.M-LOCKS.COM