

Installation Instructions





Company

Founded in 1983 with the aim of providing a complete range of professional products, Tecnosicurezza is now a consolidated reality in the field of locks and security systems for safes.

The experience gained in over 35 years of activity in the security sector has allowed the designing and manufacturing of high technology and reliability systems, which continue to receive the approval of an increasingly demanding clientele.

TECNOSICUREZZA is present directly on the Italian, Spanish and US markets and, through a extensive distribution network, in many European and extra-European countries.

TECNOSICUREZZA is aimed at national and international customers of primary importance, such as banks, safe manufacturers, cash in transit companies, mass market retailers and post offices.

Today TECNOSICUREZZA is a leading company focused on the customers' needs and constantly in step with technology.



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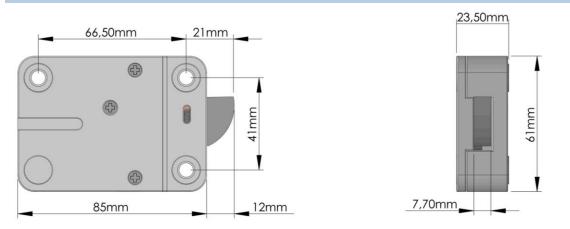
Important notes!

- Before installing this product, please read carefully the installation and operating instructions.
- Locks can be installed in all traditional safes.
- Lock has to be mounted on secure storage metal (preferred steel) units only.
- Locks must be protected against external attacks, for this reason it is recommended to install them on the door away from any through holes.
- Any electronic part must be properly protected and not easily accessible even when the door is open.
- Locks have been developed to work correctly in a temperature range from -5 ° C to + 50
 ° C and in an environment with non-condensing humidity between 25% and 90%.
- The mounting dimensions are standard (magic module).
- Locks are supplied with metric (M6) mounting screws. Upon request, Imperial 1/4-20 UNC format mounting screws are available.
- The type of material and the length of the screws must, in any case, be selected so as to guarantee long life and reliability.
- Tighten the screws so that the lock is firmly fixed to the mounting surface (recommended torque between 2.5 and 5.5 Nm).
- The mounting surface must be perfectly flat.
- In order to prevent loosening of the screws it is recommended the use of LOCTITE[®] threadlocker and/or specific washers positioned under the head of the fixing screw.
- The diameter of the passage hole for the connection cable or the spindle must not exceed 11 mm.
- The hole must be completely cleaned of drill dust and no edge should be sharp.
- Lock must not be lubricated.
- In the locked position, the distance between the bolt and the boltwork part that is moving the lock bolt must comply with the following specifications for each type of lock.
- Any component to be fixed to the lock bolt must be previously approved by Tecnosicurezza before installation. In any case, the maximum load must not exceed 2.5



- Secure the cables away from moving parts by using cable ties and cable ties bases.
- If placed in normal domestic or office environments, the locks do not require particular maintenance; in any case, after 10,000 opening/locking cycles, it is recommended to run a test that verifies the correct and complete operation of the product.

RotoBolt lock dimensions



RotoBolt lock installation instructions

The RotoBolt lock is a swingbolt lock whose block is carried out by a motor; it can be installed in all 4 directions, even upside down.

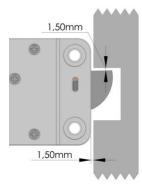
By powering the lock, it removes the blocking and the boltwork can be moved into open position by pushing the bolt inside the lock case.

The bolt automatically secures when the safe handle, or the safe door mechanism, is brought to the locked position.

If the RotoBolt lock is used in conjunction with other locks, the safe door mechanism must ensure the closure of the RotoBolt before the other locks.

The lock can be mounted in all four mounting directions (RH, LH, VU, VD).

Furthermore, by flipping over the lock, both locking directions can be realized (RH/LH).



In the locked position the distance between the RotoBolt bolt and the RotobBolt part that is moving the lock bolt should be approximately 1 mm.



The bolt must be able to move freely without force being applied to it.

The maximum load applicable to the bolt must not exceed 1KN. Contact Tecnosicurezza in case of heavier loads.



Characteristics and Cabling

Characteristics

The T4550 is a RotoBolt lock whose block is realized through engine.

The power supply can be between 5 and 15 Volts.

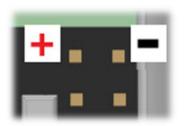
Simply providing power supply, electronics instantly permits unlocking of the bolt.

With the bolt switch option lock version (p.n. T4550/SW/P) is possible to read the bolt status (open/close) thanks to the microswitch inside of the lock.

Cabling



Lock pins



Power supply pins

Power supply:

V = 5 ÷ 15 Vdc I = 1A max

Maximum power supply time:

Tmax= 300sec (powering for a longer time may cause severe issues to the lock).

With a 4 pin Molex cable (p.n. L41040/2L) is possible to power the lock and read the bolt status (T4550/SW/P locks).

Note: L41040/2L is a 90 cm cable. For different cable lengths contact Tecnosicurezza.

<u>Power supply:</u> Yellow (PWR +) and black (PWR -) cables

Microswitch: Red and green cables (M1 and M2) Bolt closed: microswitch closed. Bolt open: microswitch open.



L41040/2L cable colors description



Functional test

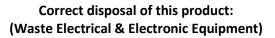
To be carried out with the door open.

Provide power to the lock. Turn boltwork handle towards OPEN position. Bolt must move freely. Cut power to the lock. Turn boltwork handle towards LOCKED position. The lock bolt must fully extend and secure. Make sure there is an air space on all sides of the lock bolt when the safe's boltwork is fully thrown into LOCKED position. **Repeat functional test several times before locking the safe door.** Foilure to follow these installation instructions or enoping the lock by personnel not

Failure to follow these installation instructions or opening the lock by personnel not authorized by Tecnosicurezza will void the warranty.

NOTES





Applicable in the European Union and other European countries with separate collection systems.



This marking displayed on the product or its literature indicates that it should not be disposed with other wastes at the end of its working life.

To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Contacts

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