

Electromechanical SwingBolt lock

Installation Instructions



Electromechanical locks

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Important notes!

- The following procedure must be undertaken by a qualified competent. For any concerns about the safety of this product, please write to us on: [Contact Us - Tecnosicurezza](#)
- 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 (except DeadBolt and MotorLock).
- If locks are not properly protected by systems belonging to the safe (manganese plates, glass plate, relocking, etc.) only DeadBolt and MotorLock locks can be mounted behind the passage hole for the connection cable or the spindle.
- 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 hole must be completely cleaned of drill dust and no edge should be sharp.
- Lock must not be lubricated.

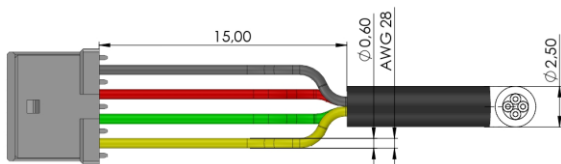
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- In the locked position, the distance between the bolt and the boltwork part that is moving the lock bolt must comply with the following specifications for each type of lock.
- Any component to be fixed to the lock bolt must be previously approved by Tecnosicurezza before installation. In any case, the maximum load must not exceed 4 N for MotorLock version.
- 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.
- To power the lock it is possible to use a stabilized power supply from 6 V to 15 V and 1 A that must be compliant with national product directives and provided with short circuit protection.
- Do not use cleaning agents with chemical, abrasive or alcohol-containing additives to clean the components. Use only a damp cloth.
- Do not spray liquid directly onto the components.

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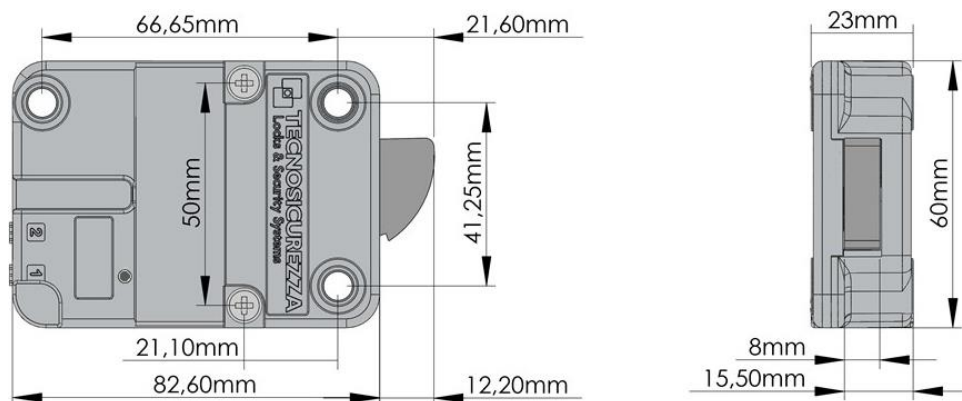
Connector model

Molex 87439000



SwingBolt lock dimensions

T4501

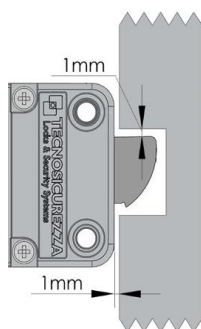


SwingBolt lock installation instructions

The SwingBolt lock is a swinging bolt lock whose block is carried out by a motor; it can be installed in all 4 directions (RH, LH, VU, VD), even upside down.

By powering the lock, the electronic 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.

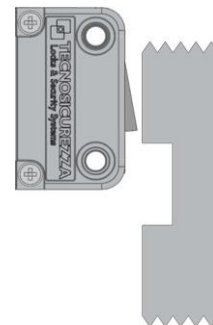


In the locked position the distance between the lock's bolt and the lock part that moves the bolt should be approximately 1 mm.

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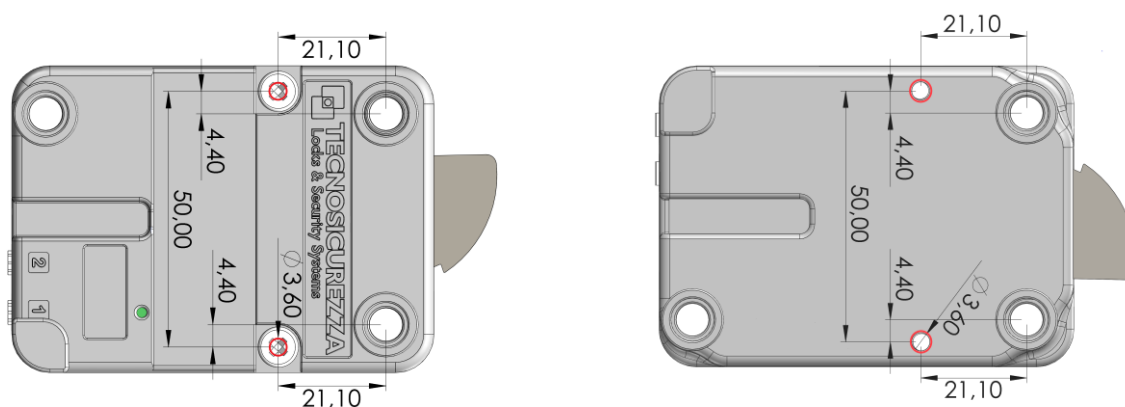
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The bolt must be able to move freely without force being applied to it.



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

It's possible to connect a relocker to the lock body (on upper or lower side) through the appropriate holes.



Fix the relocker plate with M4 self tapping flat head screws.
Length must be 6mm + plate thickness.

(i.e. 6mm + 2mm plate = 8mm screw)



Characteristics & Cabling

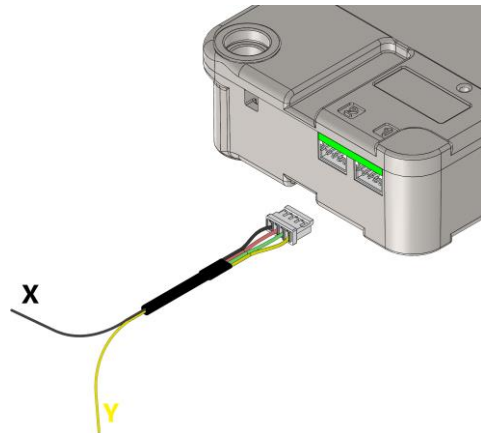
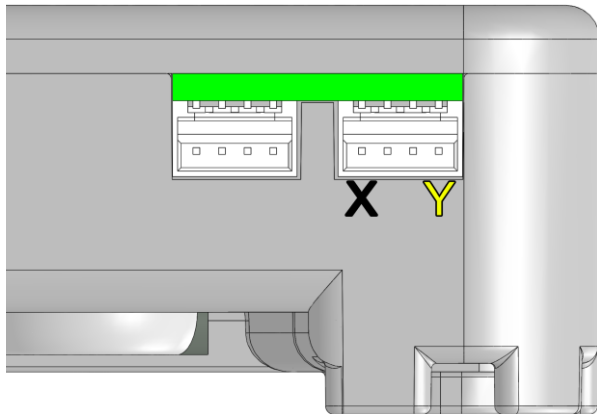
On SwingBolt models the instant unlocking of the bolt is obtained by supplying the power. The bolt is then retracted manually by the turning of the external handle/knob.

Part number	Lock type	Power supply	Note
T4501	Swing bolt	V = 6 ÷ 15 Vdc I = 250 mA @ 12Vdc	Max 300 sec @ 12Vdc (do not exceed this timing)

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Connect the cable to the lock connector "1", making sure it is fully inserted and locked.

*Power must be provided to connector 1 to pins X and Y which correspond to *black* (-) and *yellow* wire (+) in case it's used a Tecnosicurezza standard cable. For power and voltage references, see the table above.

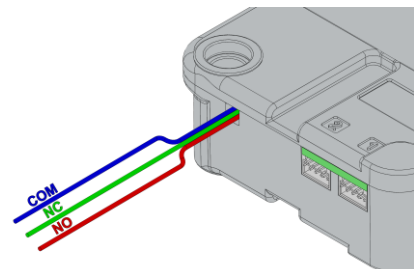


Upon request, the following options are available:

/SW/P

Option with 3 wires (Common/Normally Open/Normally Closed) which provides the status of the bolt through an internal micro-switch.

(*) Power to be provided as indicated above.



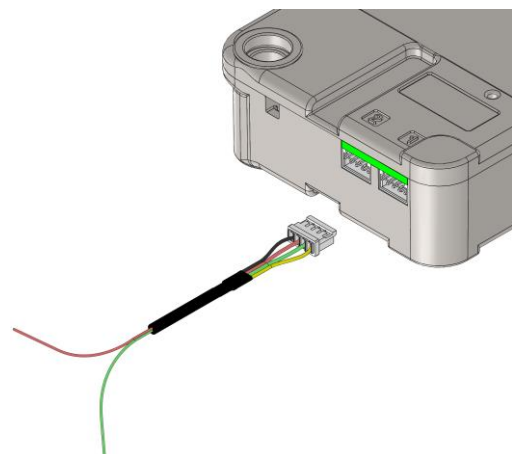
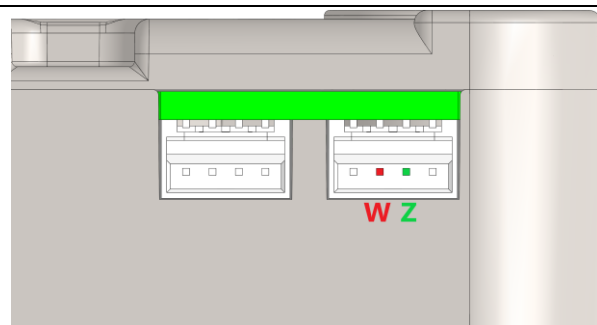
/SW/NC (Common/Normally Closed)

/SW/NO (Common/Normally Open)

Option with 2 wires which provides the status of the bolt through an internal micro-switch.

Use the central pins (W, Z) of connector 1 which correspond to *red* and *green* wire in case it's used a Tecnosicurezza standard cable.

(*) Power to be provided as indicated above.



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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.

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

Correct disposal of this product: (Waste Electrical & Electronic Equipment)

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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