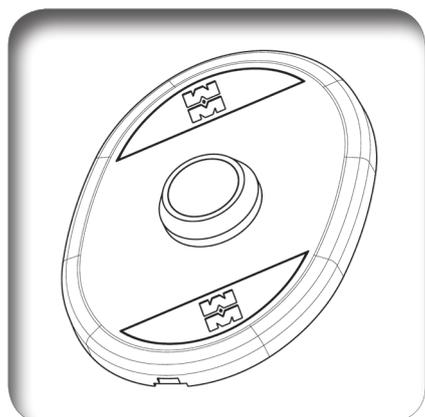


POWERED SEMI-ELECTRONIC LOCK  
INSTALLATION, OPERATION AND  
MAINTENANCE INSTRUCTIONS

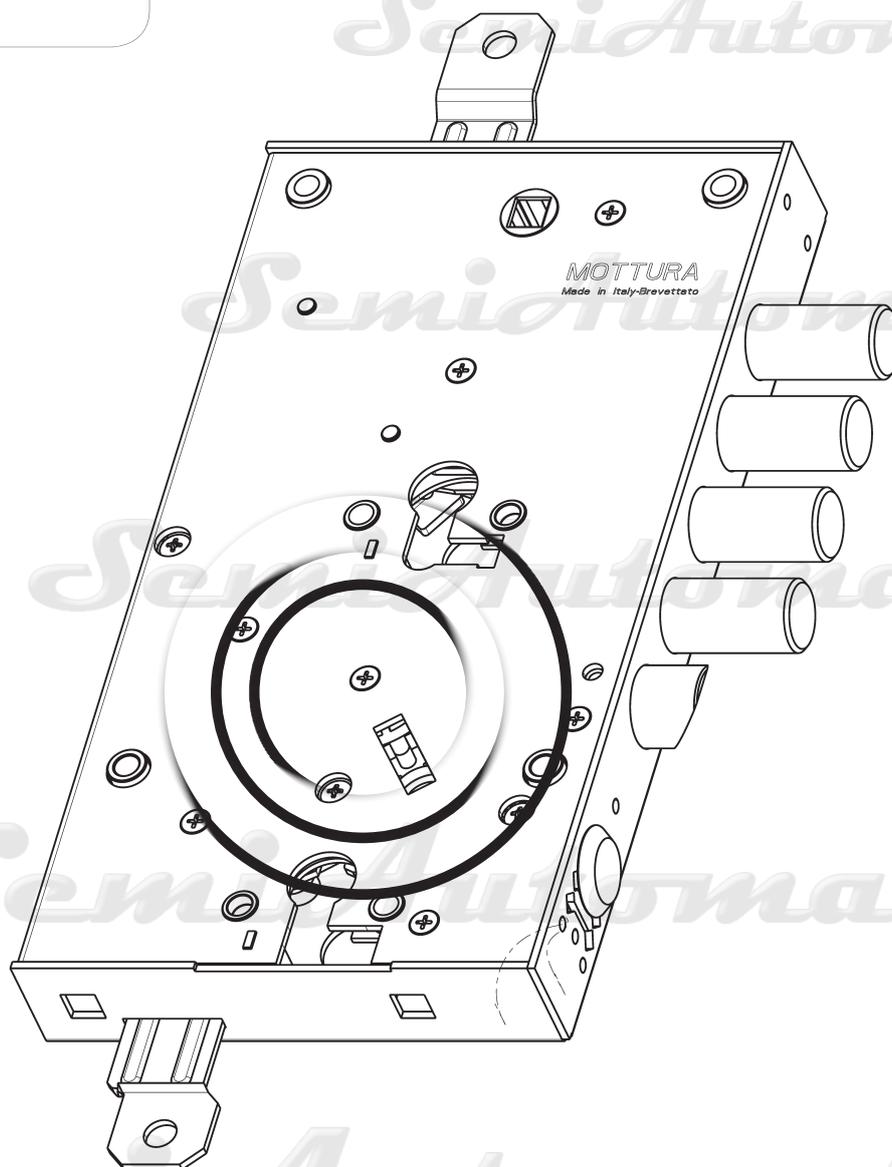
**M X MODE**  
M 2.0



*SemiAutomatica*

*SemiAutomatica*

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# 1 - GENERAL INSTRUCTIONS

Mottura Serrature di Sicurezza S.p.A. thanks you for choosing this product and reminds you :

- To read all of these instructions very carefully before installing the lock or doing any maintenance work on the product.
- That all assembly and connection procedures must be done in conformity to the rules of Good Practice and to current law. DO NOT install this product in rooms or atmospheres at risk of explosion or in the presence of flammable fumes/gases.
- Do not install the lock on doors with risk of contact with water or atmospheric agents if not properly protected.
- To switch off the power supply and disconnect all live parts before doing any installation or maintenance work on the product.
- The installer must deliver these instructions and all of the maintenance instructions to the user.
- Keep these instructions for future reference and attach the sales receipt to validate the warranty.
- In case of problems contact authorized dealers only.

This manual explains how to connect the lock according to a logical-functional sequence.

First connect all of the selected peripherals and then the power supply.

1. Connecting the internal escutcheon (allow lock to be controlled on door)
2. Connecting the remote control units (allow remote control of the lock)
3. Connecting the power supplies.

If you have to disconnect the wires, do the above steps in the reverse order, i.e., always disconnect the power supplies first. Mottura Serrature di Sicurezza S.p.A. may change the characteristics of the products described in these instructions at any time and without notice.

## 1.1 - WARRANTY TERMS

This product has been inspected by Mottura Serrature di Sicurezza S.p.A. and is guaranteed to be free of all manufacturing defects for the time specified by current Italian law, starting on the date of purchase indicated on the sales receipt.

The warranty is in force if the sales receipt, showing details identifying the product, is exhibited to customer service personnel.

The warranty covers the replacement or repair of parts found defective at origin due to manufacturing defects. Costs of shipping to and from service centers will be paid by the customer.

In case of repeated malfunctions of the same type or unrepairable defects, Mottura Serrature di Sicurezza S.p.A. may, at its own discretion, replace the complete product. The warranty on the replaced product will continue until expiration of the original warranty. If work is necessary at the customer's home, the customer will be required to pay a charge for the costs of transfer of authorized technical personnel.

Transport will be at the customer's risk if the product is sent by the customer and at the authorized technician's risk if the product is picked up and transported by the technician.

## 1.2 - LIMITS OF LIABILITY

The warranty does not cover damage due to:

- negligence, carelessness or use in any manner not described in these instructions
- lack of protection of the lock prior to carrying out any work operations on the door, such as drilling or welding (welds, panel holes, structure holes, etc.), which may generate waste materials that will hinder the correct operation of the lock upon entering its mechanism
- maintenance performed in any manner not described in these instructions or by unauthorized personnel
- use of non-original accessories/components Mottura
- transport without the necessary precautions and from any circumstances that cannot be attributed to manufacturing defects.

Work temperature: -10°C to +55°C. The batteries guarantee correct operation of the lock in the specified temperature range. If such temperature extremes are approached or exceeded, battery performance may decrease rapidly, with possible malfunction of the electrical part.

In addition, Mottura Serrature di Sicurezza S.p.A. declines all liability for any damage to persons or property deriving from failure to observe all of the precautions described herein.

## 2 - INSTALLATION

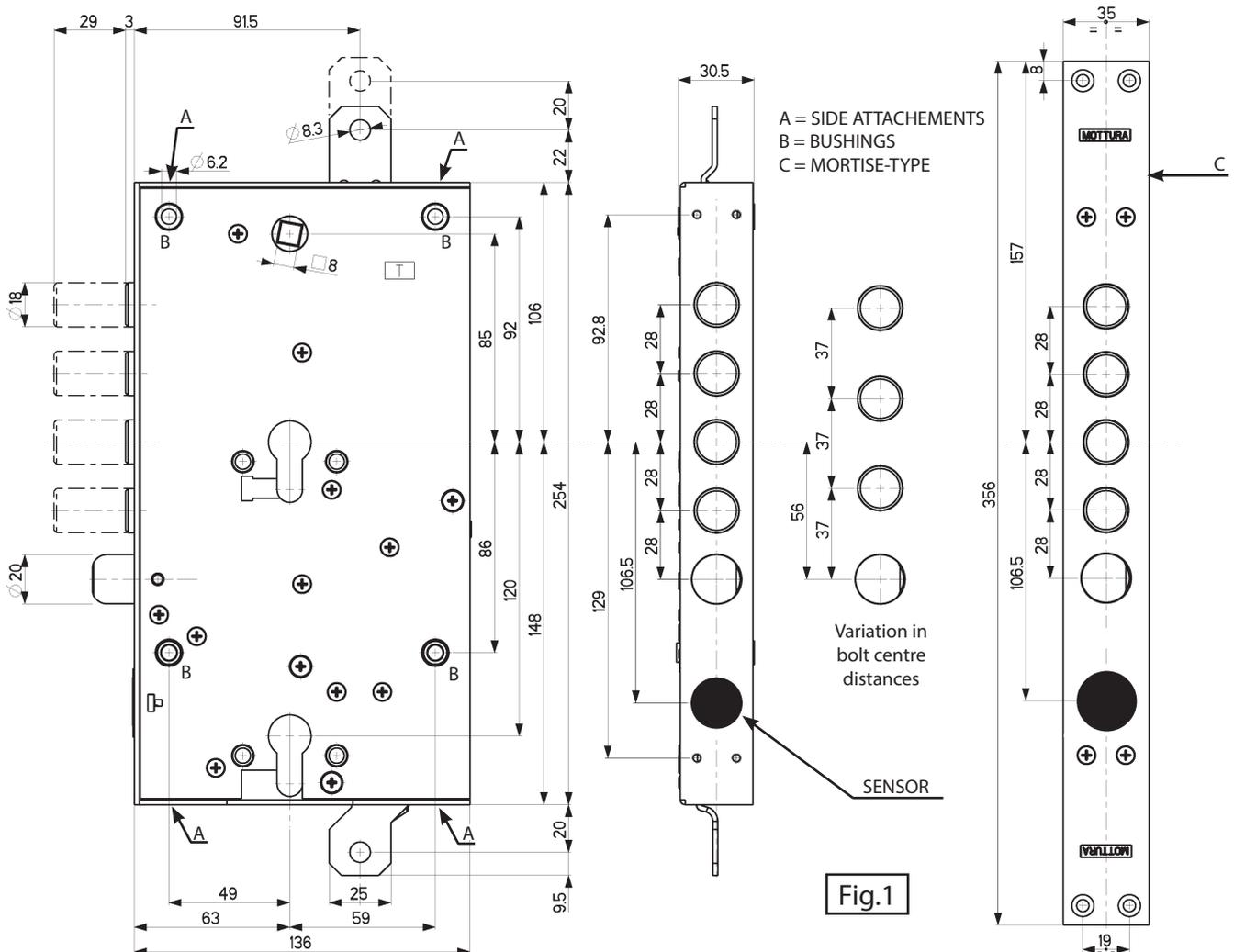
Fix the lock to the door structure by using all of the fasteners: side attachments (A), bushings (B) or mortise-type (C) (Fig. 1). In order to function correctly, the lock should be fixed in a vertical position. The lock may not work properly if installed or used in a different position. For correct operation of the lock, the spring latch must be able to protrude freely without frictioning when the door is open or closed

Prepare the drillings on the door structure to hold the battery pack in a non-binding position defined only by the length of the wires and by internal dimensions due to door configuration (opening limiter, switchlocks, etc.). Drill the frame for the door status sensor. For these drillings, see the attached mounting diagram in Fig. 2. If you are mounting switchlocks, always provide sufficient clearance between the bar and the upper and lower tabs both when the lock is open and when it is closed, so as to prevent strain that could damage the motor. Fasten the battery pack and wire it, preparing the connections for the lock and the internal escutcheon using the wires supplied as standard.

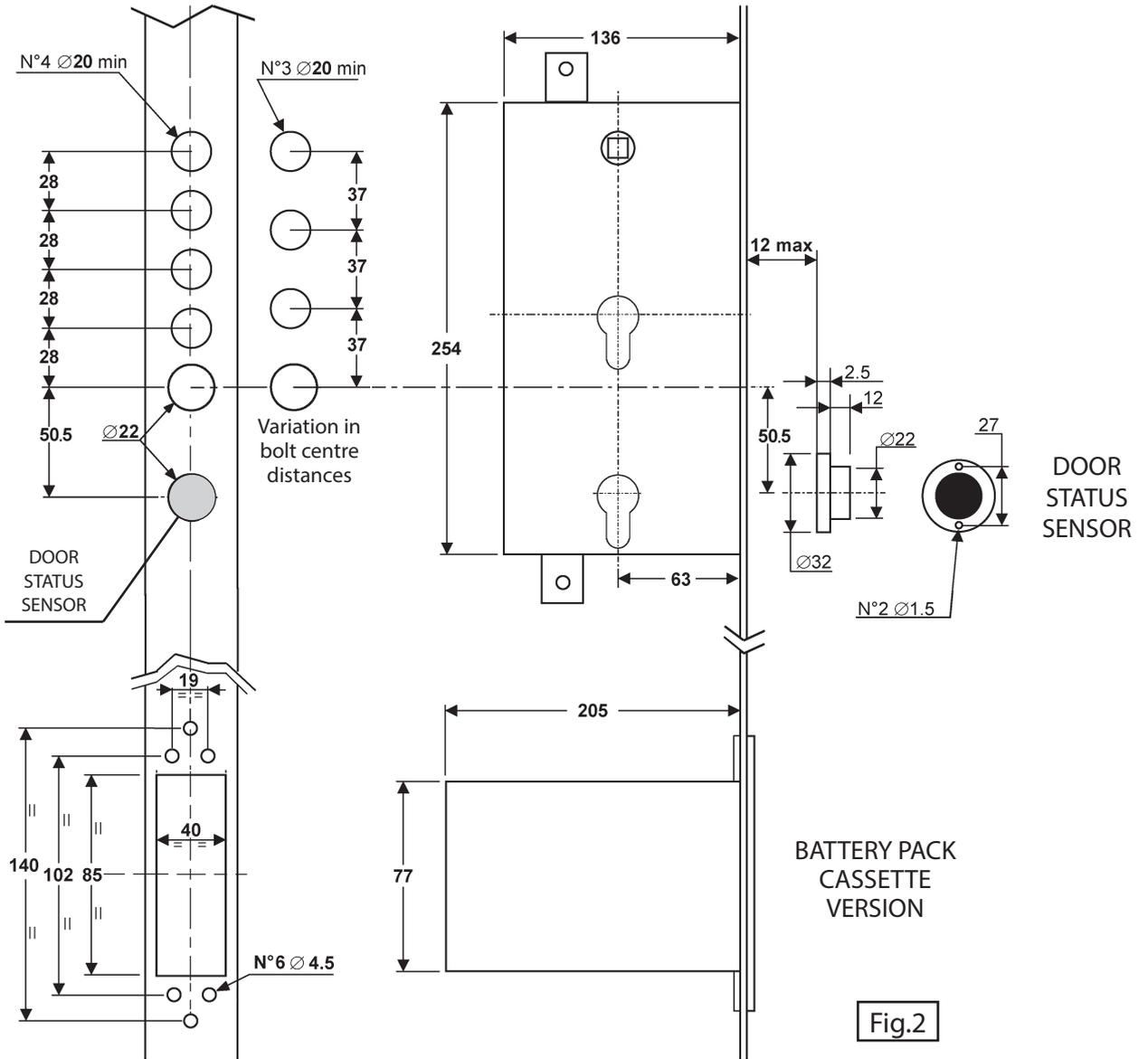
*Protect the lock before doing any work on the door that could produce waste material (soldering, drilling of panels, drilling of structure, etc.) that might enter the lock and impair its functioning.*

**WARNING!** *When the door is completely mounted and perfectly positioned, run the first checks on the lock (opening/closing) in mechanical mode to make sure there is no frictioning on the levers (bars/switchlocks) or on the key when turning.*

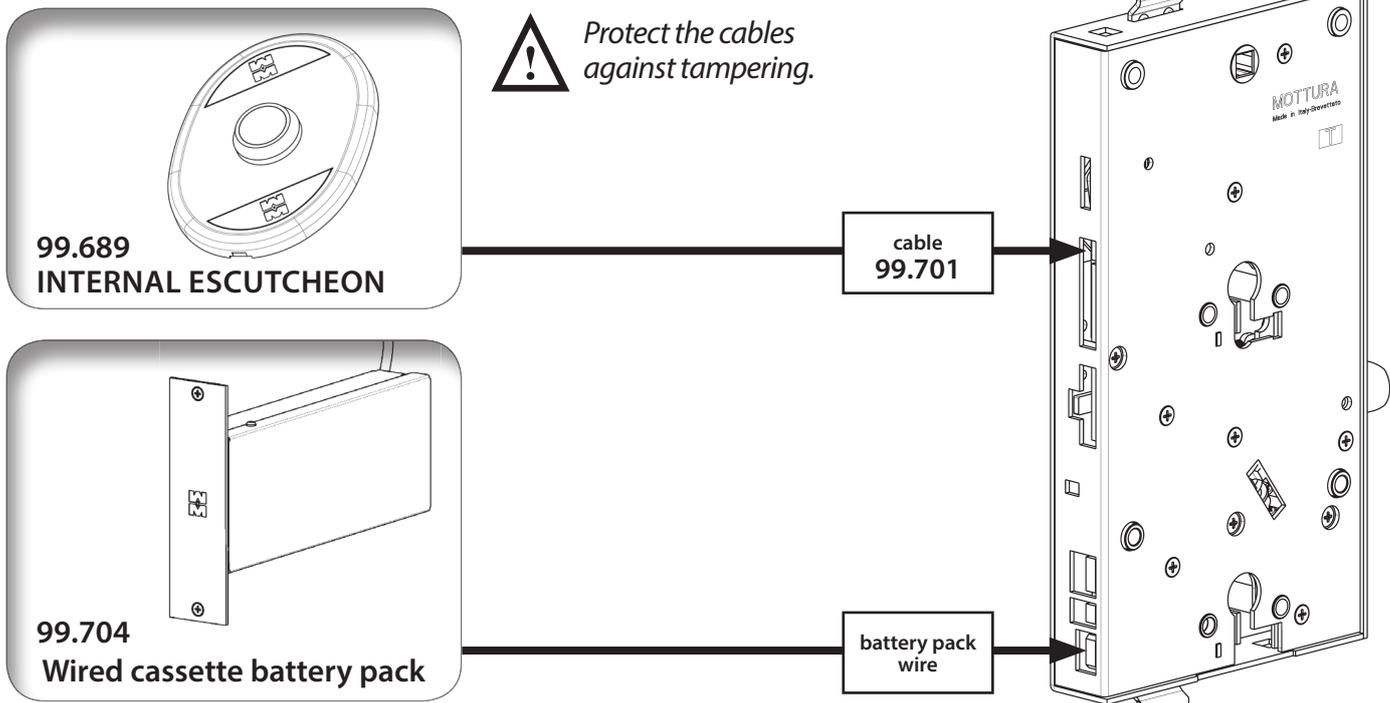
*These problems could impair correct electronic operation of the lock and cause permanent malfunction. Mottura Serrature di Sicurezza S.p.A. declines all liability if this procedure is not performed and, in such case, all warranties on the product will lapse.*



**2.1 - DRILLING DIAGRAM (CHANGEABLE POSITIONS) AND DIMENSIONS**

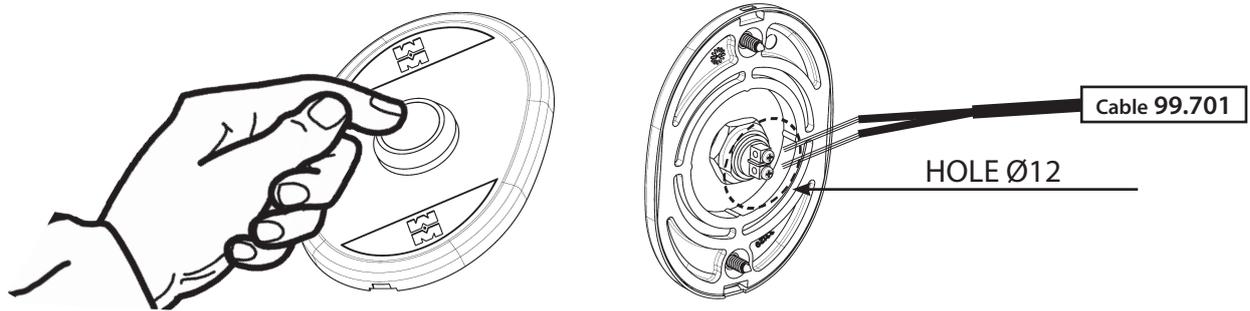


**2.2 - WIRING**

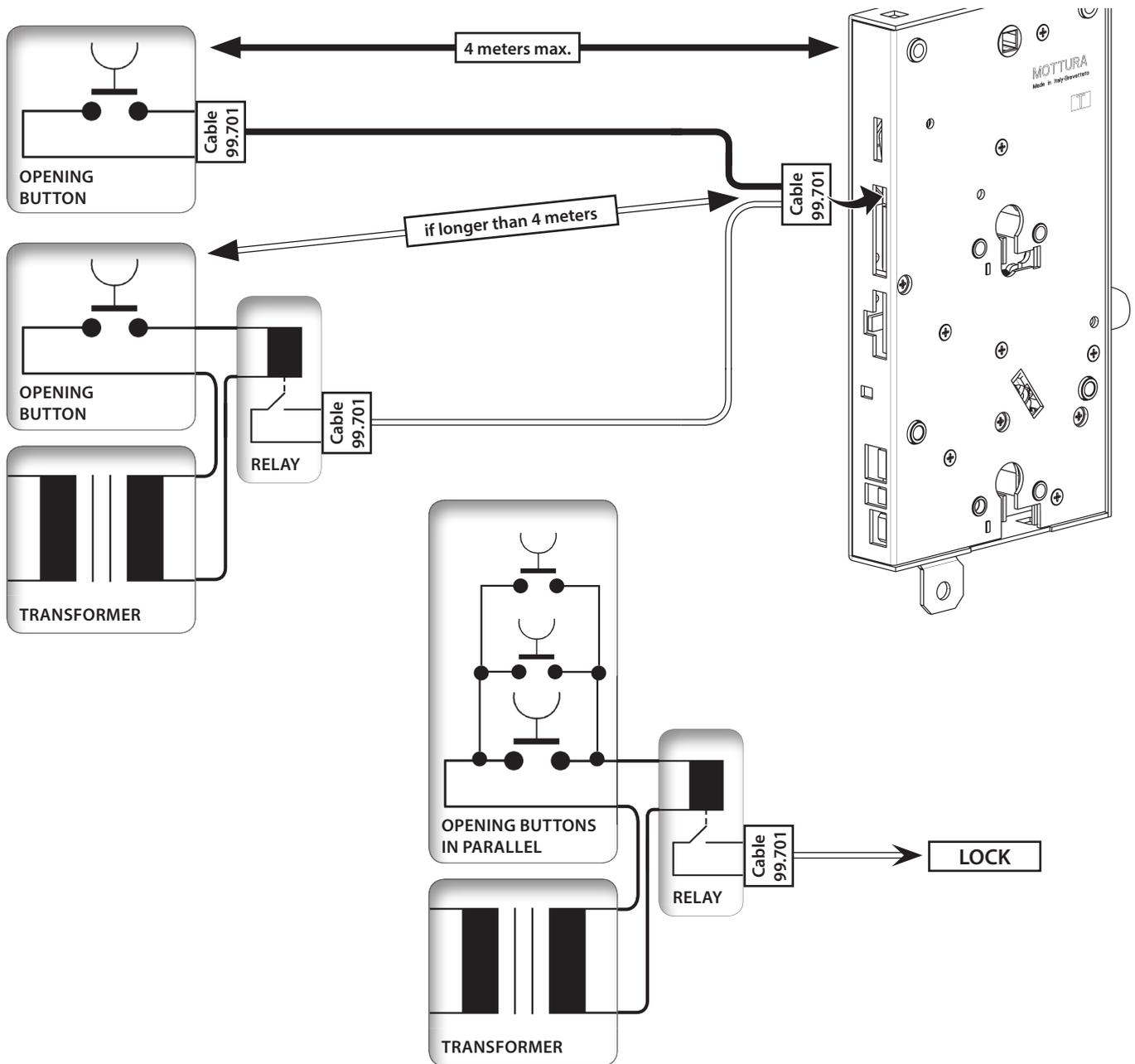


### 3 - BUTTON ESCUTCHEON

This escutcheon is always installed on the inside of the door (prepare a Ø12 mm hole on the panel). Use ONLY the 99.701 connection cable. Connect the cable to the lock with its connector and to the "Normally Open" button of the escutcheon supplied by inserting the 2 wires into the screw terminals.



You can operate the lock simply by pushing the button. If the opening button is located more than 4 meters from the lock, interpose a relay (not supplied) between the door and the device, with the coil connected to the control device and the "Common" and "Normally Open" contacts of the relay connected to the lock with the 99.701 cable. The cable has to pass through a grommet (Art. 99.144 – available on request). You can insert multiple buttons in parallel so that the lock can be opened from different rooms in the apartment.



## 4 - POWER SUPPLY

Power is supplied by BATTERIES (with battery pack 99.704). When the battery charge is no longer sufficient to operate the lock, the batteries **MUST** be changed.

**Use non-rechargeable alkaline batteries - 6 x 1.5 V type D (flashlight):** when the lock takes longer than normal to react after the button is pushed or after the door is closed, it means that the batteries are becoming drained. Change them immediately to prevent electronic malfunctions, failed door opening, or damage.

All of the batteries must be changed together with new ones of the same brand and model. When changing the 6 batteries, be extremely careful about their polarity in order to prevent irreversible damage.

*Never use rechargeable batteries. Your system requires non-rechargeable (alkaline) batteries. Using rechargeable batteries will compromise operation of the lock.*



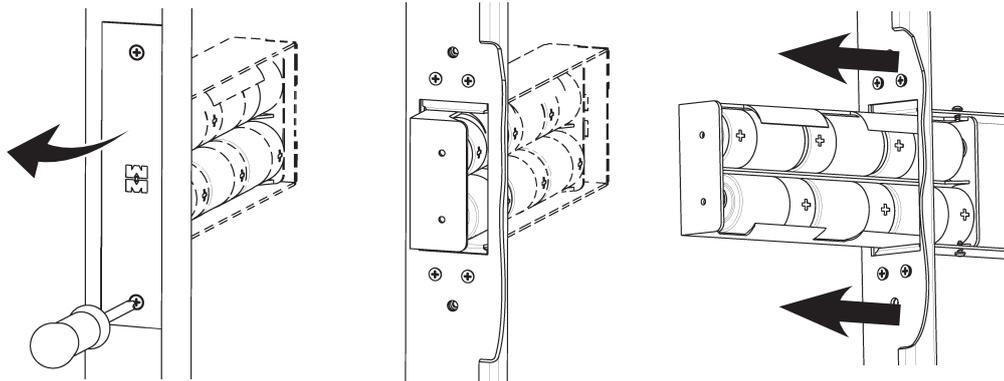
*Mottura serrature di sicurezza S.p.A. assumes no liability for any type of malfunction, fault, and harm/damage caused to persons or property deriving from failure to observe the following instructions, which will also void the warranty.*

**ATTENTION: Drained batteries are harmful to the environment!!**

*They must be disposed of in special containers found wherever batteries are sold, as required by law.*

### 4.1 - BATTERY HOLDER CASSETTE VERSION (art. 99.704)

To replace the batteries, open the door, loosen the screws on the front of the battery pack, then completely unscrew both screws and remove the front cover so that the battery holder cassette is fully open, as shown in the figure. Pull the cassette out until it reaches the stop that prevents it from being completely removed. Then change the batteries, positioning the new ones as shown on the bottom of the cassette.



After changing the batteries, place the cassette back in its housing. Put the front cover back in place and tighten the fixing screws.

## 5 - LOCK FUNCTION FROM INSIDE

Push the button on the internal escutcheon: the lock will open the bolts and the deadbolt.

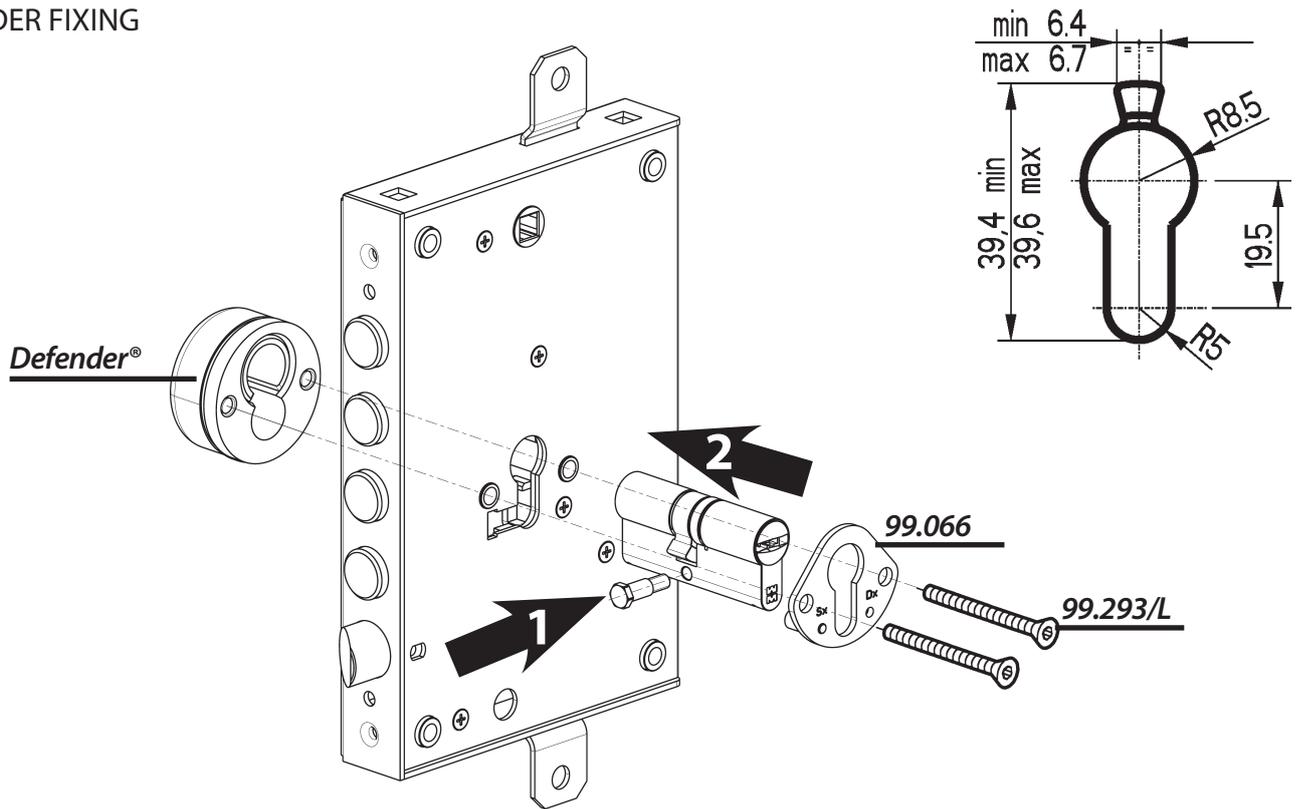
Go out. Close the door behind you: the lock will automatically close the bolts.

## 6 - LOCK FUNCTION FROM OUTSIDE

Use the mechanical keys supplied with the lock to open the bolts and the deadbolt.

Go in. Close the door behind you: the lock will automatically close the bolts.

CYLINDER FIXING



For proper functioning of the lock, we recommend installation of a MOTTURA CHAMPIONS® double or half Europrofile cylinder (according to application) (DO NOT use cylinders with knobs).  
 For better protection of the cylinder from the outer side of the door, we recommend the use of MOTTURA DEFENDER® systems. To fix the cylinder only, use the components shown in the figure.  
 For these articles (not included in the pack), please see MOTTURA catalogs.