Thesis 2.0

ISEO Zero1
ELECTRONIC SOLUTIONS

INDEX

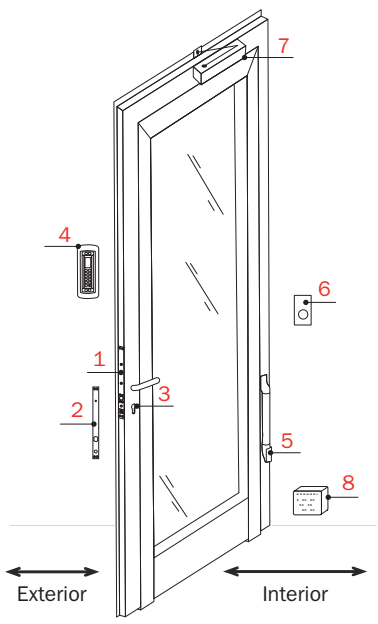
1. WARNINGS

- Failure to comply with the instructions laid out in this manual will affect the proper functioning of the lock, with consequent loss of warranty.
- This product can only be used for what it was specifically designed to do. Any other use is considered irregular and dangerous.
- Provisions should be made to ensure that a suitable isolation and protection switch be placed upstream of the power supply.
- Do not use the lock as a drilling template.
- Do not paint or lubricate the lock.
- Always ensure the bolt is clean and free of friction. In case the valve needs to be cleaned, do not use products that can leak into the lock.
- We recommend you equip the door with a door closer to prevent rebound when closing the door.
- If there is no power supply, the NC version of the solenoid lock can only be opened mechanically through the cylinder or the handle (where applicable). On the other hand, the NA version of the solenoid lock cannot be mechanically closed if there is no power supply.
- FIAM srl is not required to comply with warranty conditions if the product has been subjected to changes, repairs or alterations by unauthorized personnel.
- For manufacturing and commercial reasons, or to improve the quality of its product, FIAM srl reserves the right to make any changes it deems appropriate to the product and its instruction manual without prior notice.

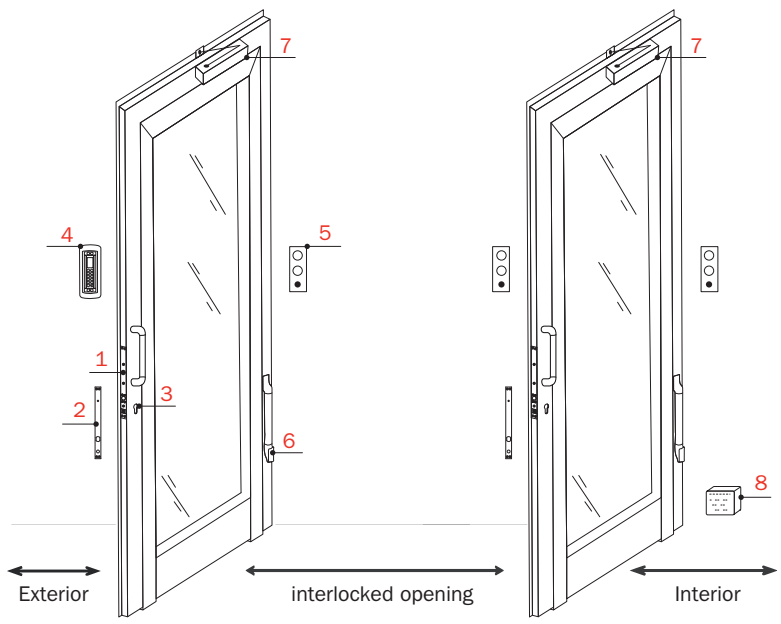
2. APPLICATION EXAMPLE (single door)

1. Thesis 2.0 lock
2. Lock striking plate
3. Cylinder
4. Stylos reader
5. Cable gland
6. Opening button
7. Spring-loaded damper
8. Power supply

The image on the left serves only as an example of this product in use.
Please consult the catalogue to see all available accessories for the series Thesis 2.o, or contact us for any technical or sales questions.



3. MANUAL OR AUTOMATIC INTERLOCKING EXAMPLES



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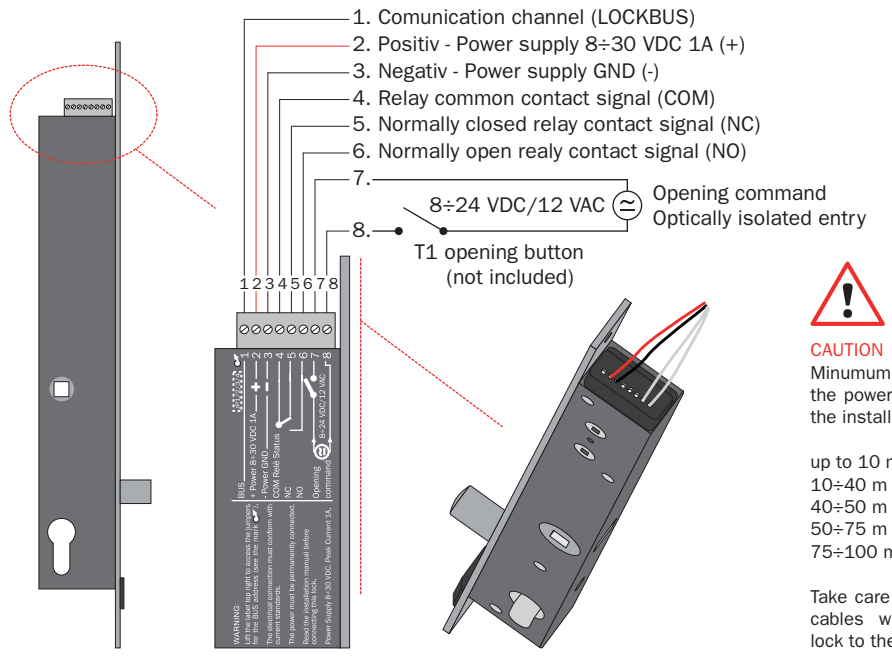
ATTENTION
In the case that automatic interlocking is installed, the indicator lights at the openings (4.2) are not equipped with an opening button.

NOTE
The communication channel guarantees an encrypted exchange between the Thesis 2.0 locks.

4. ELECTRICAL CONNECTIONS



CAUTION
Minumum cross-section of the power lines in relation to the installation length:

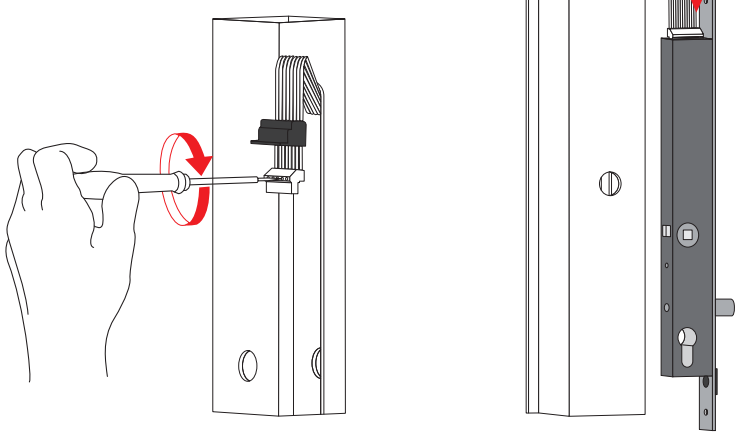
up to 10 m section: 0.5 mm
10÷40 m section: 0.75 mm
40÷50 m section: 1 mm
50÷75 m section: 1.5 mm
75÷100 m section: 2.5 mm

Take care not to damage the cables while fastening the lock to the frame.

5. FASTENING THE CABLES AND THE CONNECTOR

CAUTION
To protect the electronic circuit from external factors, please place the black rubber cap between the cables and the green connector (the black rubber cap and the removable connector are both included).

After fastening the cables to the green removable connector (1), insert the latter into the permanent connector on the upper part of the lock (2). Cover the connectors with the black rubber cap, anchoring it to the lock with the screw that is provided.



6. FUNCTION MODES

TOTAL functioning

If the opening command is of less than 1 second, the lock opens and stays open with the door shut for the duration of the preset courtesy time. If the door is opened before the courtesy time elapses, then the next time the door closes the lock will release the locking valve and will secure the passage.

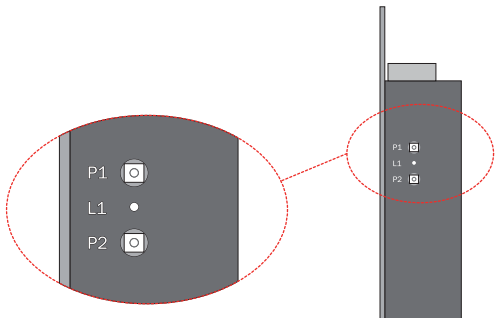
FREE functioning

If the opening command is active (state), the lock ignores the preset courtesy time and holds back the unlocking bolt until the opening command is deactivated. In this mode, access to the passage is always ensured: each time the door closes the lock does not close (“daytime” mode).

7. SETTING THE “COURTESY” AND “DELAYED CLOSURE” TIMINGS

Setting the “opening time” (T1)

To modify the opening time of the lock, present by the manufacturer at 15 seconds, proceed as follows:
- position the powered lock to be with the bolt in set back condition with the door open (both bolt and door in open position);
- press button P1 for the desired duration, between 1 and 180 seconds (while programming, the L1 LED will flash at 1 second intervals).



Setting the “delayed closure” at the closing of the door (T2)

To modify the “delayed closure” at the closing of the locking door, preset by the manufacturer at 1 second, proceed as follows:
- position the powered lock to be with the bolt in set back condition with the door open (both bolt and door in open condition);
- press button P2 for the desired duration, between 1 and 60 seconds (while programming, the L1 LED will pulse at 1 second intervals).

CAUTION
In the event that the interlocking lock is used with other devices through the communication channel LOCKBUS, do not set T2 at less than 1 second for proper functioning.

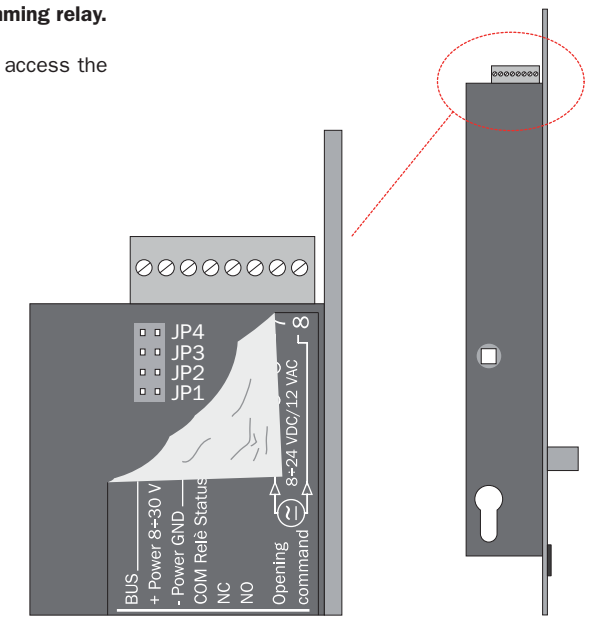
8. RELAY CONFIGURATIONS

Configuration and access to the programming relay.

Peel off label (illustration on the side) to access the Jumper Configuration (JP1/2/3/4).

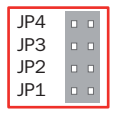
Once done, reposition the label.

NOTE
If jumper JP1 is off, the relay is configured directly by the settings of the lock software.

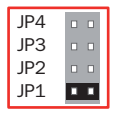


8.1 RELAY CONFIGURATIONS

If the lock is used in a local setting (single door), it is possible to configure the relays using the jumpers included in order to obtain one of the following signals:



"SECURED DOOR STATUS" (bolt out and door closed)
Note: this setting has already been preset by the manufacturer in all the locks that use the "standard" setting software.



"MOTORISED DOOR OPENER COMMAND" (with bolt in, 1 second pulse)
Cut power, insert jumper JP1 as shown and restart power.

9. CONNECTIONS FOR MANUAL OR AUTOMATIC INTERLOCKING

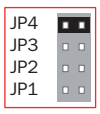
To obtain a manual or automatic interlocking between two Thesis 2.o solenoid locks equipped with the appropriate software and connected with an encrypted communication channel, proceed as follows:

1. Connect the PIN1 of both locks (communication channel) with each other, as well as the corresponding PIN2 and PIN3 with the same power source, but do NOT power: we recommend that you do not insert the connectors already red in each lock (see figure shown on the side).

2. Insert the JP4 jumper in one of the two locks and by pressing either of the two buttons of the same, only power this lock (insert the wired connector). Wait at least 2 seconds before releasing the button.

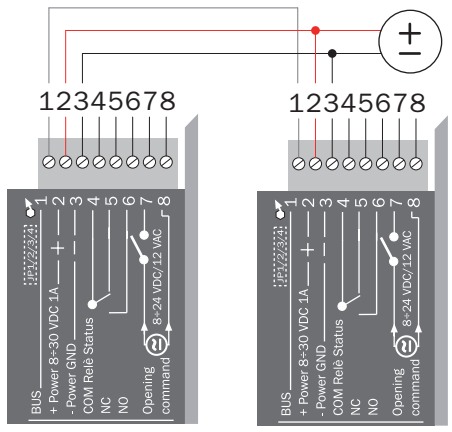
3. Keeping the previously configured lock ON (step 4), locate the lock without the JP4 jumper; while pressing either of the two buttons, start power on this lock as well (insert the wired connector). Wait at least 2 seconds before releasing the button.

4. After a few seconds, the communication between the two locks will be activated, and both locks will operate in the inte locking mode laid out by the software (manual or automatic).



NOTE
The above procedures are performed with the doors in opened position.

9.1 CONNECTIONS EXAMPLE FOR MANUAL OR AUTOMATIC INTERLOCKING



NOTE
If required by the specifications of the system, connect the indicator lights to the relay of the "secured door status" of each lock (PIN 4/5/6) and the corresponding opening button (PIN 7/8 optically insulated entry). Anticipate the use of an adequate power supply (one lock alone consumes 15W).

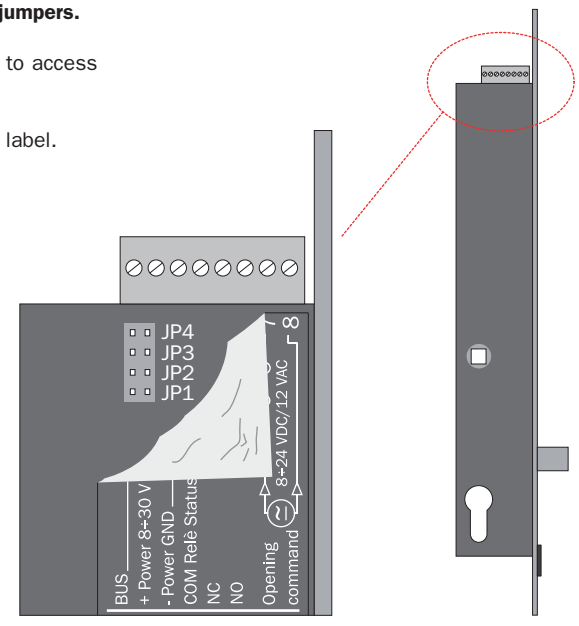
10. CONFIGURATION OF THESIS 2.0 WITH STYLOS LINE

Configuration and access to address bus jumpers.

Remove the label (illustration on the side) to access to the configuration jumpers (JP1/2/3/4).

After completing this operation replace the label.

JUMPERS BUS ADDRESS



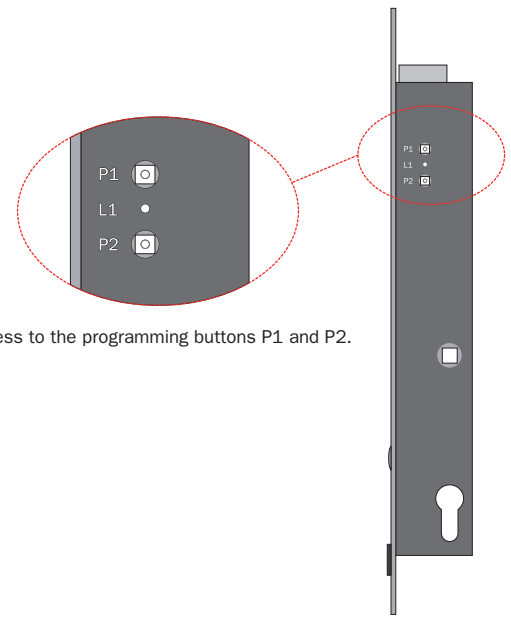
10.1 CONFIGURATION OF THESIS 2.0 WITH STYLOS LINE

Access to the programming buttons.

CAUTION
Position the lock to be with the bolt and the door in opened position.

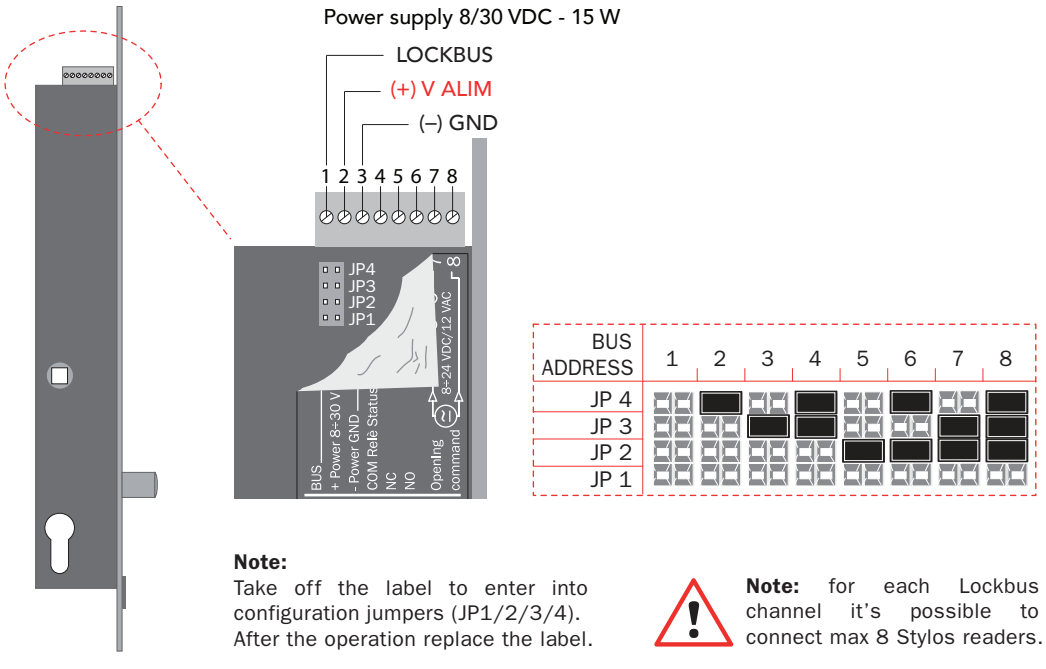
The electrical connectoins are described on paragraph 2

LEGEND:
P1/P2 = Programming buttons
L1 = LOCKBUS LED type I/II



Access to the programming buttons P1 and P2.

11. CONFIGURATION OF THESIS 2.0 WITH OFF - LINE SOFTWARE



BUS ADDRESS	1	2	3	4	5	6	7	8
JP 4								
JP 3								
JP 2								
JP 1								

Note:
Take off the label to enter into configuration jumpers (JP1/2/3/4). After the operation replace the label.

Note: for each Lockbus channel it's possible to connect max 8 Stylos readers.

Thesis 2.0

ISEO Zero1
ELECTRONIC SOLUTIONS

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