

OPERATING INSTRUCTION

Electromagnetic lock **VIZIT-ML400M-x** is intended to lock doors (30 to 50 mm thick) as part of access control systems. The lock is mounted inside the building on a door opening outwards. The lock shall be used together with a door closer.

VIZIT-ML400M-x has degaussing module sealed together with electromagnet coil.

The following versions are available:

- **VIZIT-ML400M**;
- **VIZIT-ML400M-40**;
- **VIZIT-ML400M-50**.

SPECIFICATIONS

Operating voltage, VDC :	9...15
Holding force, kg (U=12V):	400 ± 60
Power consumption, W (U=12V):	7.2
Dimensions, mm :	

Lock parts	Width	Height	Depth
Electromagnet	225	55	35
Armature plate	167	55	12

Weight, **kg**:

- VIZIT-ML400M	2.5
- VIZIT-ML400M-40	2.8
- VIZIT-ML400M-50	3.0

OPERATING CONDITIONS

Ambient temperature range:	-40C up to +45C
Relative humidity of air:	up to 98% at 25C .

PARTS LIST

Title	VIZIT-ML400M	VIZIT-ML400M-40	VIZIT-ML400M-50
Electromagnet	1	1	1
Armature Plate	1	1	1
Mounting Kit (for armature plate mounting)	1	1	1
Mounting Kit 1 (angle bar 40x40 mm)	-	1	-
Mounting Kit 2 (angle bar 50x50 mm)	-	-	1
Mounting Kit 3 (plate bar)	1	-	-
Package	1	1	1
Operating instruction	1	1	1

SAFETY INSTRUCTIONS

The lock does not contain voltage above **15 VDC**.
Do not make any connections or repair when the power is on.

INSTALLATION

For qualified installation, wiring and servicing refer to technical and commercial partners of VIZIT TM. The list of companies is given on VIZIT.EU (<http://vizit.eu/eurounion/>).

CAUTION: Handle the equipment with care. Damage to the mating surface of magnet or armature plate may reduce locking efficiency.

The lock shall be installed inside the building according to directions on Figures **1-3**.

The armature plate is fixed on the door. The electromagnet is fixed on the door frame opposite to the armature plate. The electromagnet's work surface is shown on Figure **4**.

To ensure maximum holding force, the armature plate shall be fixed as close to the door edge as possible, taking into account the electromagnet's position.

Note: It is more convenient to make markings for the electromagnet and armature plate installation, if the door is closed.

Installation order:

1. Make holes for the armature plate and guide pin.
2. Fix the armature plate on the inner door-side using mounting kit (Figure 1).
Leave 4..5mm clearance between the plate and door surface.
3. Fix the plate bar / angle bar on the door frame with screws (1) as on Figures 2, 3. Do not fasten the screws very tight, so that you could further adjust the plate bar / angle bar position, if needed.
4. Fix the electromagnet on the plate bar / angle bar with screws (3).
5. Adjust the electromagnet with plate bar / angle bar to ensure the closest fitting of the electromagnet's work surface to the armature plate.
6. Remove the electromagnet off the plate bar / angle bar.
7. Tighten the screws (1, 2) to securely fix the plate bar / angle bar on the door frame.
8. Fix the electromagnet on the plate bar / angle bar.

CONNECTION AND FUNCTIONAL CHECK

Terminals of the lock have no polarity. The example of wiring diagram is given on Figure 5. Requirements for wires and more wiring examples are given in the controlling device operating instruction.

The controlling device can be a doorstation, control unit, TM- or RF-keys controller etc. Program lock type in the controlling device as electromagnetic, and its unlocked state duration (if the functions are supported) following the corresponding operating instruction. The lock is released when the voltage across its terminals is off.

After installation and wiring complete, check all the connections.

Switch the power on. The electromagnet attracts the armature plate.
The door is locked. Check if locking is firm.

Perform unlocking according to the controlling device operating instruction.
Check if the electromagnet releases the armature plate.

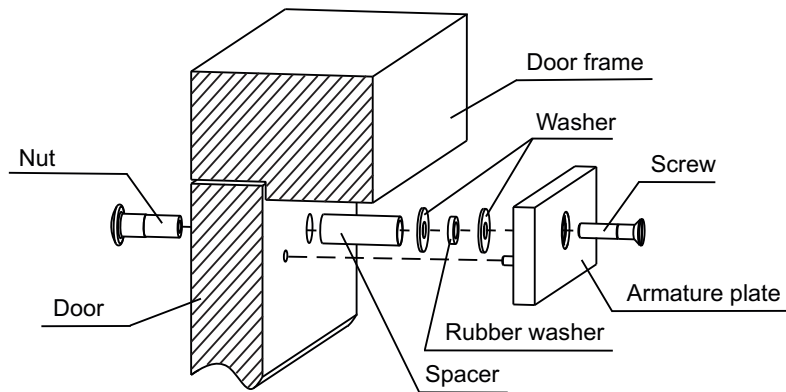


Figure 1 – Armature plate mounting

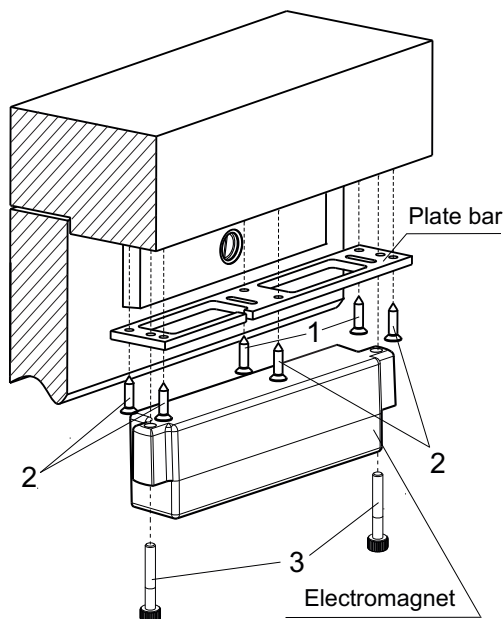


Figure 2 – Lock mounting using plate bar

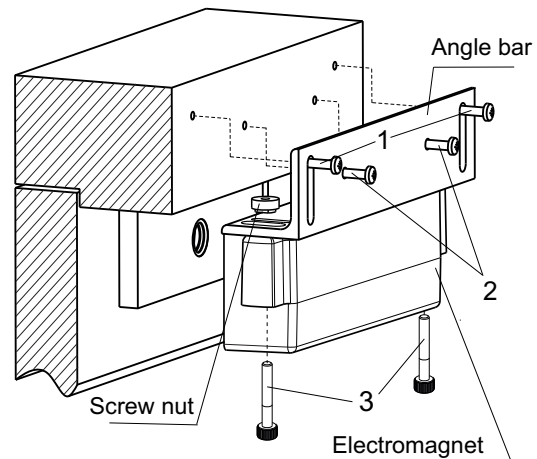


Figure 3 – Lock mounting using angle bar

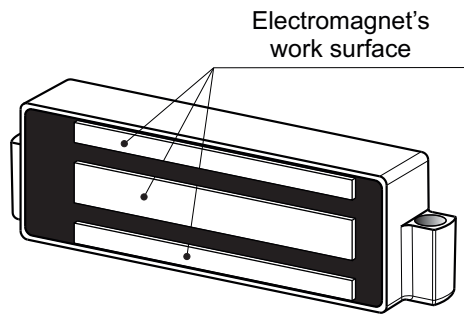


Figure 4 - Electromagnet's work surface

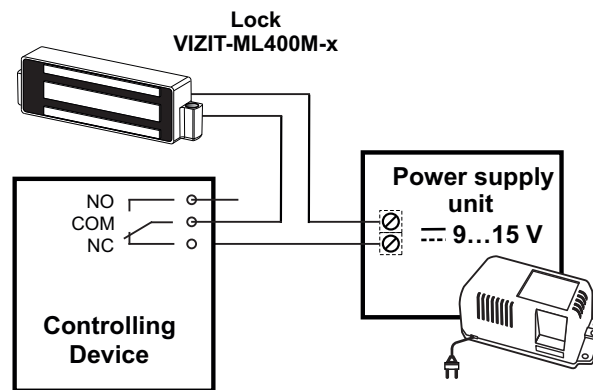


Figure 5 - Wiring diagram