

ZL-mounting bracket for PML-300 lock

User manual



BE DIFFERENT
LEAD WITH IT

Content

1. Product overview	3
2. ZL bracket installation	4
3. Wiring and armature alignment	5
4. Troubleshooting	6
Contacts:	6

1. Product overview



Fig.1. ZL-mounting bracket for PML-300 lock

The ZL-bracket compensates for a vertical offset between the lock face and the door leaf surface. Its Z-shaped profile bridges the gap (Δx), allowing the armature plate to sit flush against the lock when the door is closed. Typically used for recessed frames, stepped reveals, and glass doors.

2. ZL bracket installation

Use the ZL-bracket when there is a vertical offset (Δx) between the lock face and the armature mounting surface — for example, on recessed door leaves, stepped frames, or glass doors.

1. Mount the PML-300 lock body to the top of the door frame.
2. Attach the top leg of the ZL-bracket to the underside of the lock body.
3. The bracket's vertical step bridges the offset (Δx) to the door leaf plane.
4. Attach the armature plate to the bottom leg of the ZL-bracket.
5. Close door — verify full flush contact. Tighten all fasteners.
6. Connect DC 12V supply to the lock terminals.

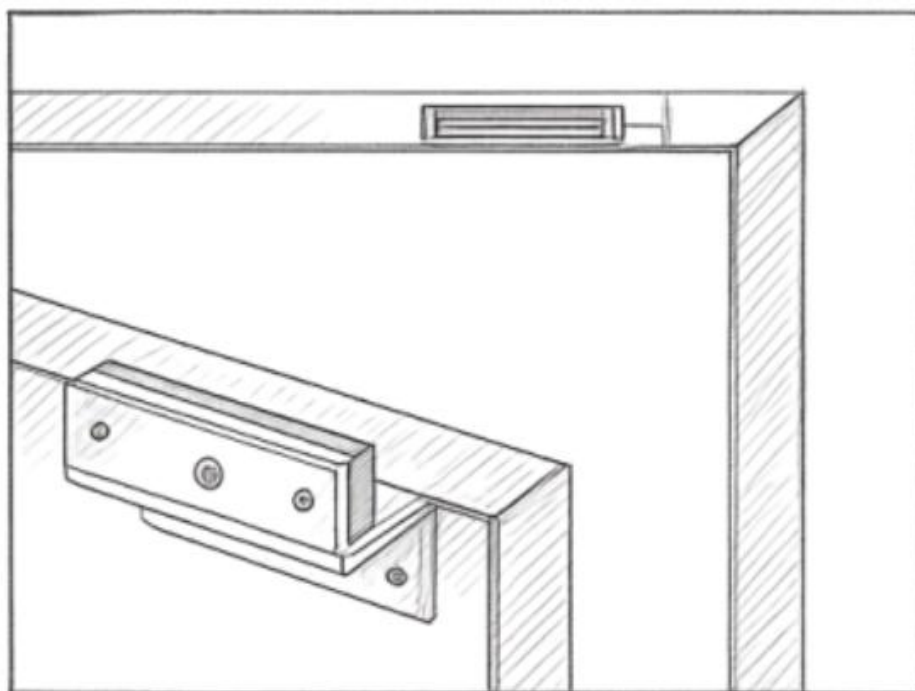


Fig.2. ZL bracket installation

3. Wiring and armature alignment

PML-300 operates at DC 12V. Connect the two-wire cable from the lock to a suitable 12V power supply via an access control panel or relay.

Wire / Terminal	Function
Red (+)	DC +12V positive
Black (-)	GND / negative
COM / NO / NC (S & T)	Status signal output

Correct alignment between the lock face and the armature plate is critical for achieving the rated holding force. Misalignment can reduce holding force by up to 50%.

- The armature surface must be parallel to the lock face with a gap of 0–1 mm when the door is fully closed.
- Use the slotted mounting holes to adjust the armature position before tightening.
- The LED indicator (all models) should show solid green when locked and aligned correctly.
- Re-check alignment after 30 days of use as fixings may settle.

Maintenance

Interval	Task
Monthly	Clean the lock face and armature with a dry cloth. Check mounting screws for tightness.
Every 6 months	Inspect wiring for wear or corrosion. Verify holding force with a pull-force gauge.
Annually	Test the full access control cycle (lock, unlock, signal output). Check LED function.

4. Troubleshooting

Symptom	Possible Cause & Remedy
Lock does not engage	Check power supply voltage (must be 12V $\pm$ 5%). Verify wiring polarity. Confirm relay/controller is switching correctly.
Weak holding force	Armature not flush with lock face — realign. Dirt or debris on contact surfaces — clean. Voltage below spec — check supply.
Lock does not release	Anti-residual magnetism feature may need reset. Cut power completely for 2 seconds and restore.
LED not lit	Check power supply and wiring. On PML-300-S/T, verify signal output wiring is not short-circuited.
Noise on lock/unlock	Loose armature or bracket — re-tighten all fasteners.

Contacts:

WhatsApp: +420 777 054 888

Email: support@partizan.global

Telegram: https://t.me/PartizanSupport_bot