SystemQ ACC510 Adjustable Delay and Status Relay User Guide

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zap Surface Mount Mag Lock

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ACC510 – Quick Start Guide

Mag Locks

The ACC510 has an adjustable delay and status relay output which can be connected to a buzzer or light to produce a visible or audible alert when the door is opened.

User Information

- There are no user serviceable parts, opening or attempting to repair the product will void the warranty.

- Do not install or use the device if the wires connected are damaged or have been subjected to water ingress.
- Handle the equipment carefully. The holding force can be reduced by damaging the lock body or armature plate.
- The magnetic lock should be fixed tightly on the doorframe and the armature plate on the door leaf.
- Shut off all power to the access control system before wiring this device.
- Maintain a clean and safe environment at all times.

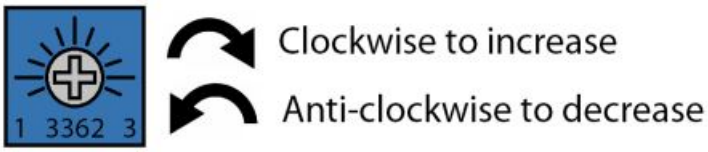
Definition

NO (Normally Open) – This is a contact which remains open (as default) until activated, during the “active” state the contact provides a closed circuit and starts conducting.
NC (Normally Closed) – Is the opposite of a NO contact. The contact will remain closed (as default) until activated, during the “active” state the circuit breaks and stops current flow.

Connections

The ACC510 requires 12V DC applied to the ‘+’ and ‘-‘ terminals in order to activate the lock. There are also relay output terminals NC or NO and COM.

Time Delay

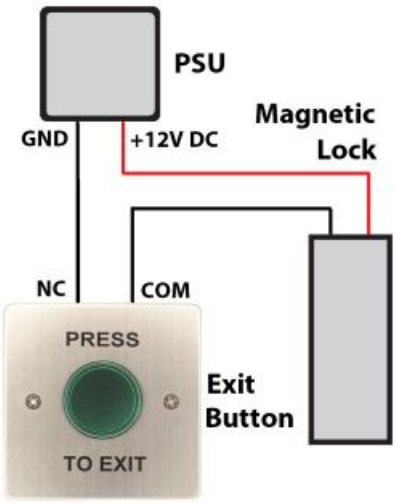


Once power is applied to the ‘+’ and ‘-‘ terminals the lock uses its internal timer to determine the pull of the electromagnet. Note the armature plate needs to be close to the Mag Lock in order for the pull to take effect.

Status LED – Show the state of the lock.

Red = Power on and pull in place
Green= Power on and lock

Setup Examples



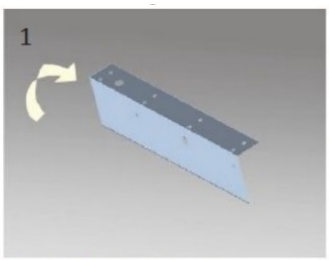
Magnetic locks are an efficient method of adding secure access control to a door.

An electromagnetic lock works by holding the door in place as long as there is power being supplied.

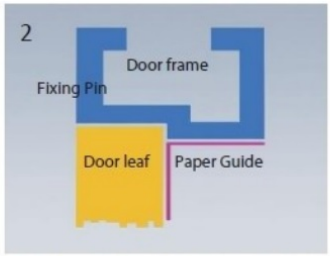
For a “Fail Safe” setup, when the button is activated, power supply then releases power from the lock, and if power is lost then the lock also releases.

The Mag Lock can also be connected to a HRM250 – 10 function relay. A custom set length of time can be set for how long the power is cut from the Mag Lock. This allows for installations where the exit button isn’t situated next to the door and a timed released is required.

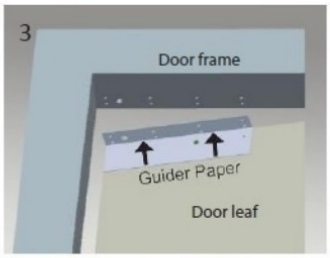
Mounting



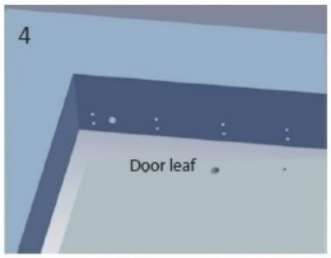
Fold the guide paper to 90°.



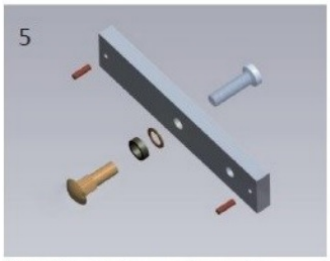
Close the door, put the guide paper to the top side of the door frame.



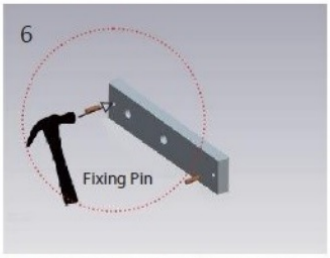
Mark screw positions on the door frame.



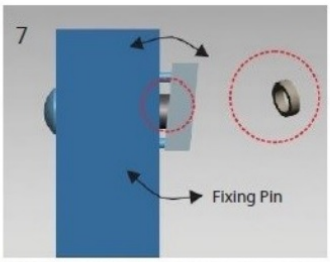
Drill holes according to the marked positions.



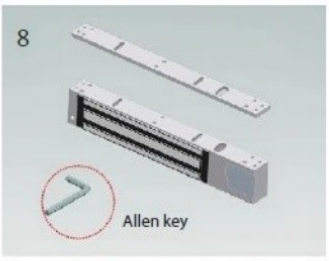
Attach the bolts according to the diagram.



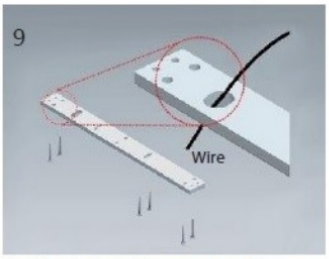
Knock the pin into the plate gently to avoid the plate moving.



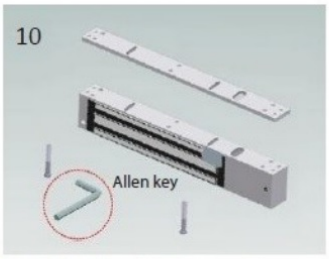
Rubber gasket allows for plate adjustment, the plate can be added to reach max holding force.



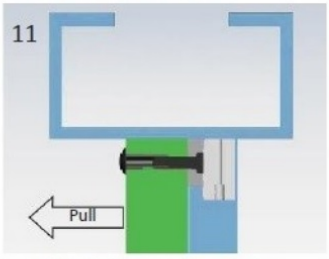
Remove the mounting plate from the lock body using the Allen key provied



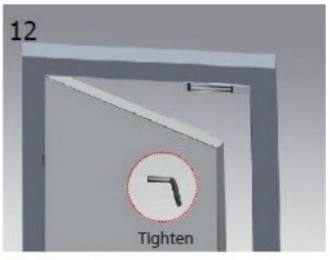
Fix the plate to the screw position which you marked before.



Fix the lock body to the mounting plate by Allen key



Open the door to test the holding force. Adjust the gap between plate and Magnetic lock.



Tighten the tamper screw to secure in place.

Troubleshooting

If the door release is not activating the lock then there is likely a shorted wire, open circuit or some other failed device in the circuit.

To identify where the fault is, each wired connection in the circuit needs to be tested; working from the door release progress through, including the power supply and the magnetic lock.

If the fault is with the door release then check the connection wires for continuity and for trapped wires. Check for water ingress on the wired connections. Check the polarity in the power connections and ensure the connections are connected to the proper terminals.

Specification

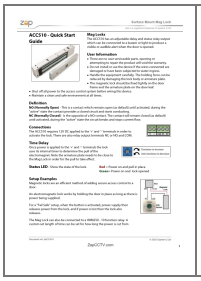
	ACC510
Design	Surface Mount
Holding Force	280kg (600lbs)
Delay	Adjustable: 0~30s
Relay Output	NO / COM / NC
Voltage	12V DC / 430mA (Holding)
LED Colour	Red= Power on and pull in place Green= Power on and lock opened
Construction	Metal
Dimensions	(H) 48 x (W) 250 x (D) 27mm (Lock)

All specifications are approximate. System Q Ltd reserves the right to change product specifications or features without notice. Whilst every effort is made to ensure that these instructions are complete and accurate, System Q Ltd cannot be held responsible for any losses, no matter how they arise, from errors or omissions in these instructions, or the performance or non-performance of the equipment refered to.

This symbol indicates that equipment must not be mixed with general household waste. For treatment, recovery and recycling please return to your local designated WEE/CG0783SS collection point as defined by your local council.

Contents

Documents / Resources

	SystemQ ACC510 Adjustable Delay and Status Relay [pdf] User Guide ACC510, Adjustable Delay and Status Relay, Adjustable Delay, Delay and Status Relay, ACC510, Status Relay

References

- Zap CCTV - Access Control Range
- Zap CCTV - Access Control Range