N10010ST Series

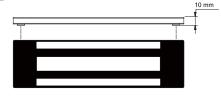
Electromagnetic Lock Installation Instruction

Website: www.gianni.com.tw E-mail: info@gianni.com.tw



Specification		
0 " 1/ "	Single Voltage: 12 or 24 VDC	
Operating Voltage	Dual Voltage: 12/24 VDC	
0	Single Voltage: 0.5A/12 VDC or 0.25A/24VDC	
Current Draw	Dual Voltage:0.5A/12VDC 0.25A/24VDC	
Operating Temperature	-10~55°C(14~131°F)	
Bond Sensor Output	0.5A/20VDC/10W	
Holding Force	1200 lbs (approx. 545 kg)	
Lock Surface Temperature	≦ ambient temperature ±20°C	
Lifetime Test	over 200,000 times	
Weight	5.1Kg	
Waterproof Rating	IPX7	

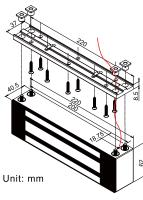


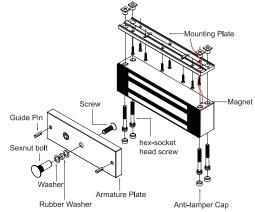


Thickness of 10 mm with enhanced sturdiness to secure the magnetic lock



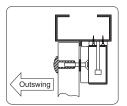
© Dimensions & Accessories



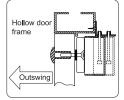


Optional Brackets

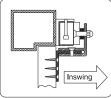
Bracket installation is based on the direction of door action and the type of door frame, e.g. narrow frame doors, frameless glass doors, inswing doors, etc.



Regular Installation



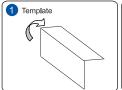
L-N10010ST bracket for outswing doors and narrow door frames



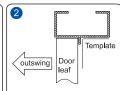
LZ-N10010ST bracket for inswing

Regular Installation

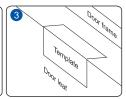




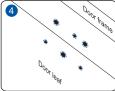
Fold the template 90° along the dotted line.



Close the door. Stick the template on upper free-moving corner of the door leaf, as close to the corner of the door frame as possible.



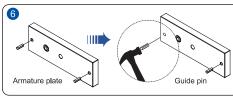
Mark the positions of the holes as shown on the template for securing the magnetic lock and armature plate.



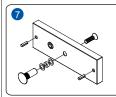
Drill the holes into the marks made Fasten the mounting plate with previously. Screws. Then fasten the magne



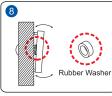
Fasten the mounting plate with screws. Then fasten the magnetic lock with hex-socket head crews and blind nuts.



Install the armature plate as shown in the diagram. (Different dimensions of holes on different door constructions.) Hammer the guide pins into the holes in the armature plate (see diagram 11).



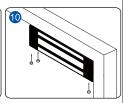
Add rubber washers



The rubber washer is used to adjust the angle of the armature plate when it is attracted by the magnetic lock to achieve the maximum holding force.



Close the door and test the holding force. Adjust the gap between the armature plate and the magnetic lock by adding or removing the washers or by tightening the armature plate.



Insert the caps into the screw holes in the magnetic lock.

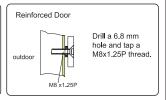
11 Drilling Instruction



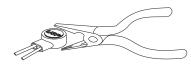
Drill a 8 mm hole.
Enlarge the hole to
12.7 mm by a sexnut
bolt from the outside.



Drill a 8 mm hole.
Enlarge the hole to
12.7 mm and 36 mm
deep by a sexnut bolt
from the outside.

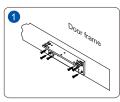


Butt Splice (IDC) Connector



Using crimper or pliers and pressing the header of connector down to even position.

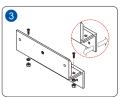
© LZ bracket for inswing doors



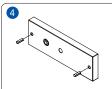
Install the L bracket to the mounting position on the door frame. Make sure the door can be freely opened.



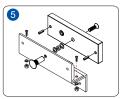
Fasten the magnetic lock to the L bracket with hex-socket head screws.



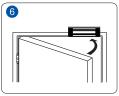
Assemble the Z bracket. Note that the bracket is movable.



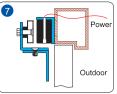
Insert the guide pins into the armature plate.



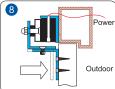
Fasten the armature plate to the bracket. The rubber washer must be placed between the armature plate and the bracket.



Close the door and connect to the power.

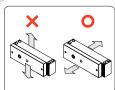


After the armature plate and the magnetic lock stick to each other, adjust the Z bracket to fit the door frame.

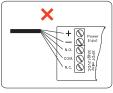


Adjust and fasten the Z bracket. Close the door and test the holding force. Adjust the gap between the armature plate and the magnetic lock by adding or removing the washers or by tightening the armature plate.

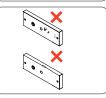




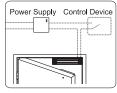
The magnetic lock must face-toface align with the armature plate or the holding force will decrease



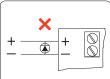
Do not apply power wires and signal wires in the same cable or conduit.



Make sure the faces of the magnetic lock and the armature plate are clean, intact and no rust.



The magnetic lock is fail-safe. It requires a UPS to supply power to keep the door locked during power failure.



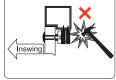
Remove any diode and varistor to prevent the door from delayed opening.



The magnetic lock and wires must not be exposed. Install LZ bracket for inswing



Regularly wipe the surface of the magnetic lock with anti-rust oil.



Connecting Diagram

Model	Wire Leads (Power input is polarity free)	Power Input	Bond sensor output	Digram	Bond sensor output
N10010ST-12 N10010ST-24 N10010ST-12-3M N10010ST-24-3M	2 Wire Leads	12VDC or 24VDC	_	Parallel Connection:12VDC Series Connection:24VDC Control Device N.C. Control Device N.C. Control Device N.C. Control Device N.C. Control Device Black Power Black Power Black	
N10010STM-12 N10010STM-24 N10010STM-12-3M N10010STM-24-3M	5 Wire Leads		~	Control Device N.C contact or Access Relay Blue Power Blue Supply White N.C. Black COM. Red N.O.	Indicates the locked (N.O. contact) or unlocked (N.C. contact)status (Relay rated:0.5A/20VDC)
N10010ST N10010ST-3M	4 Wire Leads	12VDC / 24VDC	_	Voltage Selection:24VDC Red White Power Black Supply Green Control Device N.C contact or Access Relay	
N10010STR N10010STR-3M	6 Wire Leads		~	Voltage Selection:24VDC Voltage Selection:24VDC Red White Power Black Supply Green Control Decive N.C. cortext Access Reds N.C. Cortext Access R	Indicates the locked (N.O. contact) or unlocked (N.C. contact)status (Relay rated:0.5A/20VDC)
N10010STM N10010STM-3M	7 Wire Leads		~	Voltage Selection:24VDC Red White Black Supply Greent NC. control Decive NC. control Dec	Indicates the locked (N.O. contact) or unlocked (N.C. contact)status (Relay rated:0.5A/20VDC)

Trouble Shooting

Problem	Possible Cause	Solution
Door does not lock	No power	Make sure the wires are properly connected. Make sure the power supply unit works well. Make sure the relay is connected to the N.C. contact.
Low holding force	Poor contact between electromagnet and armature plate	See if the armature plate is deformed. Make sure to insert the rubber washer between the armature plate and the bracket. See if the surfaces of the armature plate and the magnetic lock are clean.
	Low voltage or incorrect voltage setting	Check if the voltage selection is correct. Check the power voltage at the terminals.
Sensor output is not functioning	A secondary diode was installed across the electromagnet lock	Remove any diode installed across the magnetic lock.
	Misalignment between the reed switch and electromagnet lock	Make sure the armature plate and the magnetic lock are aligned face-to-face.