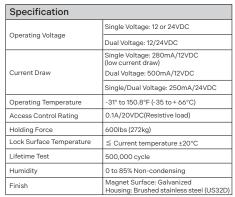
N10001ST Series

Electromagnetic Lock Installation Instruction (Waterproof Series)

Website: www.gianni.com.tw E-mail: inquiry1@gianni.com.tw

A Technical Specification



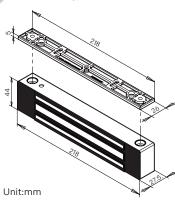
B Extra Mounting Plate

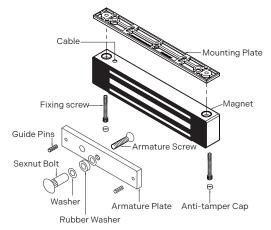


10mm thickness to ensure the body fixed steadily



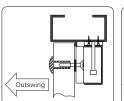
O Dimension & Accessories



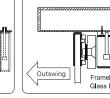


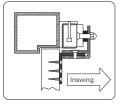
Optional Brackets

Brackets installatuin are according to door swing direction and door frame type, e.g. narrow frame door, frameless glass door, inswing door, etc.



Outswing





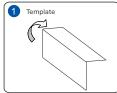
Regular Installation With L-bracket for narrow frame doors

glass doors

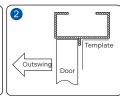
With U-bracket for frameless With LZ-bracket for inswing doors

Regular Installation

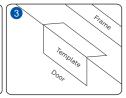




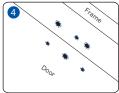
Fold the mounting template as a 90° angle



Close the door, find a mounting location on the door frame near the upper free-moving corner of the door, as close to the corner of the door frame as possible.



Place the template to the proper position of the door and frame. Mark the hole position of template to the door frame

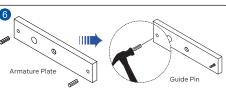


Drill the holes according to the mark.

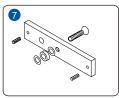


Use the screws to permanently mount the mounting plate, then mount the magnet with hardware





Please install the armature plate as the diagram. (Different dimension of the drilling holes are according to the door types). Mark sure the Guide pins are in the two guide pin holes.



Add rubber washer when



The rubber washer makes the armature plate adjustable in order to reach the utmost combination with magnet lock.



Close door and test holding force, adjust washer or armature plate to



Inset caps into the mounting screw holes entirety.

1 Drilling Instruction:



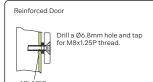
Hollow Metal Door

Drill a Ø8mm hole through door , from sexnut bolt side enlarge to Ø12.7mm

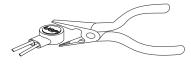


Solid Door

Drill a Ø8mm hole through door, from sexnut bolt side enlarge to Ø12.7mm, 36mm

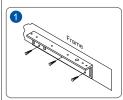


Butt Splice (IDC) Connector



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

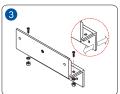
With LZ or Z bracket for inswing doors



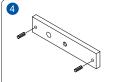
Find a mounting position on the door frame for the L bracket. Make sure that the door is still closeable.



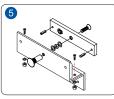
Use the fising bolt to tightten the electromagnet lock on L bracket. (For face mount, the magnet lock can be mounted directly on the door



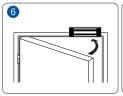
When Assemble the LZ bracket, make sure that the Z bracket is adjustable.



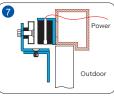
Insert the guide pins into the armature plate to steady the plate.



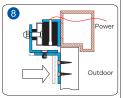
Assemble the armature plate (Must add rubber washer)



Close the door and connect the

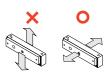


Test the tightness and adjust the Z bracket to fit the door.

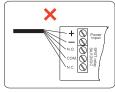


Lock tighten the Z bracket Connect the power and test the unit.

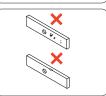
(I) Important Notes



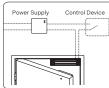
The electromagnet lock requires a face to face fitting as shown in Figure Otherwise, the holding force will be greatly decreased (direction of hydraulic press pull must be



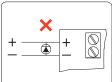
Do not apply power wires and signal wires in the same cable



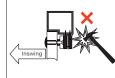
Make sure the contact area of the electromagnet lock and the armature plate are clean or the bond sensor output function will not work.



The electromagnet locks are fail-safe, therefore it may be required the UPS to remain locked during the power failure.



Remove any diode installed across the magnet lock for spike suppression The magnet is fitted with a metal oxide varistor to prevent back EMF.



install the electromagnet lock inside the house and hide the cable inside the door frame in order to against the unlawful entry. With LZ for inswing doors.



Wipe the surface of magnet lock with anti-rust oil regularly.



Connecting Diagram

Model	Wire Leads (Power input is polarity free)	Power Input	Bond sensor output	Digram	Bond sensor output
N10001ST-12 N10001ST-24 N10001ST-12-3M N10001ST-24-3M	2 Wire Leads	12VDC or 24VDC	_	12VDC 24VDC Control Device N.C contact of Access Relay N.C contact of Access Relay Relative Supply Black Supply Black Supply	
N10001STM-12 N10001STM-24 N10001STM-12-3M N10001STM-24-3M	5 Wire Leads		~	12VDC Control Device N.C. contact or Access Relay N.C. contact	Indicates the locked (N.D. contact) or unlocked (N.C. contact)status (Access Control Rating: 0.1A/20VDC(Resistive load)
N10001ST N10001ST-3M	4 Wire Leads	12VDC / 24VDC	_	Voltage Selection:2VDC Voltage Selection:24VDC Voltage Selection:24VDC Power Supply Green Supply Green Control Device NC contact or Access Relay NC contact or Access Relay	
N10001STR N10001STR-3M	6 Wire Leads		~	Voltage Selection:22VDC Voltage Selection:22VDC Voltage Selection:24VDC Red White Power Black Supply Green N.C. Control Decive N.C. Control Access Relay Wellow (N.C.) Blue (COM.) Yellow (N.C.)	Indicates the locked (N.O. contact) or unlocked (N.C. contact) status (Access Control Rating : 0.1A/20VDC(Resistive load)
N10001STM N10001STM-3M	7 Wire Leads		~	Voltage Selection:24VDC Red White Black Supply Green Control Decive N.C. control Access Relay Wellow (N.C.) Blue (COM.) Yellow (N.O.)	Indicates the locked (N.D. contact) or unlocked (N.C. contact)status (Access Control Rating: 0.1A/20VDC(Resistive load)

Trouble Shooting

Problem	Possible Cause	Solution	
Door does not lock	No power	Make sure the wires are connected properly Check that the power supply is connected and working properly Make sure the lock switch is wired correctly	
	Poor contact between electromagnet and armature plate	Make sure if the armature plate is deformed? Make sure if the rubber washer was used between magnet lock and armature plate. Make sure the contact surfaces of the electromagnet and armature plate are clean and free from dust and foreign material.	
	Low voltage or incorrect voltage setting	Ensure the electromagnet lock is set for the correct voltage. Check for proper voltage at the electromagnet locks input: if low determine if the correct wire gauge is being used to prevent excessive voltage drop.	
Sensor output	A secondary diode was installed across the electromagnet lock	Remove any diode installed across the magnet "spike" suppression. (The magnet is fitted with a metal oxide varistor to prevent back EMF)	
functioning	Misalignment between the reed switch and electromagnet lock	Make sure the armature plate and electromagnet lock are aligned correctly.	

2-2