

N10010ST Series

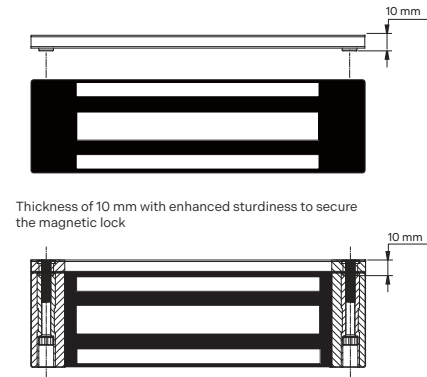
Electromagnetic Lock Installation Instruction (Waterproof Series)

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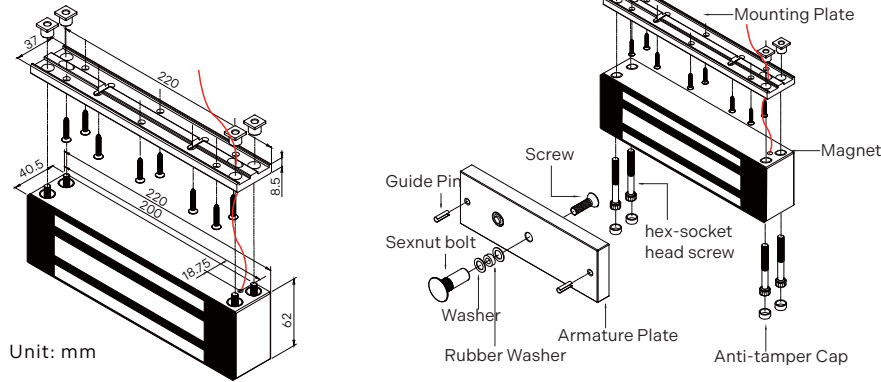
A Technical Specification

Specification	
Operating Voltage	Single Voltage: 12 or 24 VDC
	Dual Voltage: 12/24 VDC
Current Draw	Single Voltage: 500mA/12 VDC or 250mA/24VDC
	Dual Voltage: 500mA/12VDC 250mA/24VDC
Operating Temperature	-10~55°C(14~131°F)
Bond Sensor Output	0.1A/20VDC(Resistive load)
Holding Force	1200 lbs (approx. 545 kg)
Lock Surface Temperature	≤ Current temperature ±20°C
Lifetime Test	Over 500,000 times
Humidity	0 to 85% Non-condensing
Finish	Magnet Surface: Galvanized Housing: Brushed stainless steel (US32D)

B New Mounting Plate

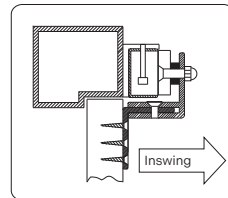
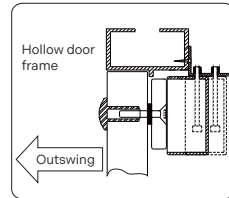
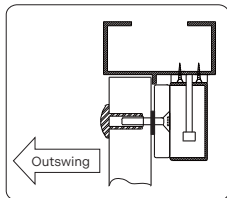


C Dimensions & Accessories

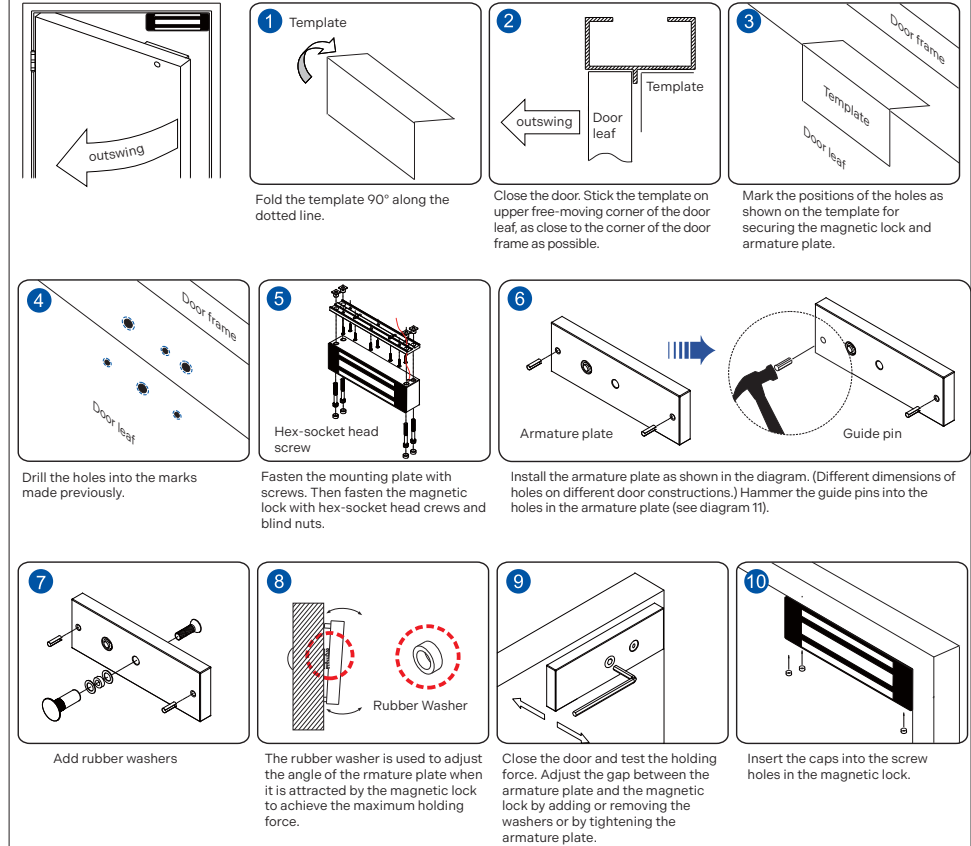


D Optional Brackets

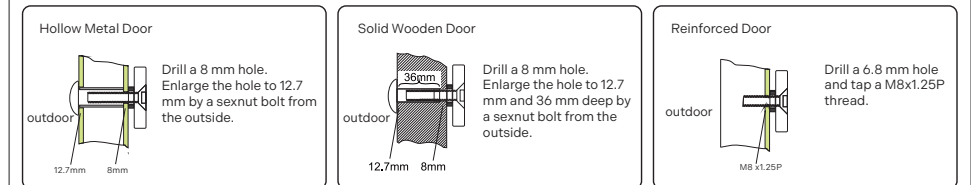
Bracket installation is based on the direction of door action and the type of door frame, e.g. narrow frame doors, frameless glass doors, inswing doors, etc.



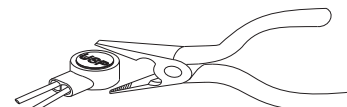
E Regular Installation



11 Drilling Instruction

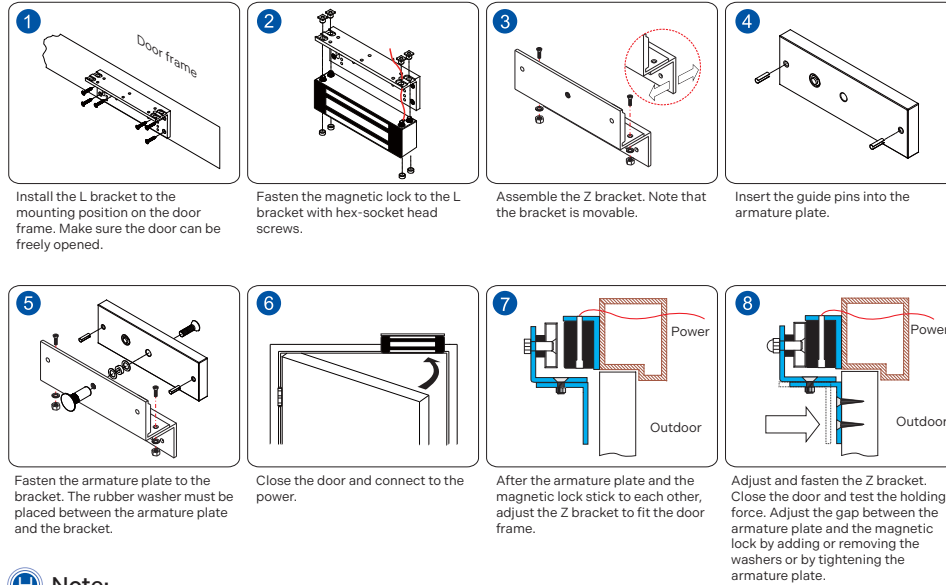


F Butt Splice (IDC) Connector

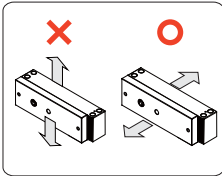


Using crimper or pliers and pressing the header of connector down to even position.

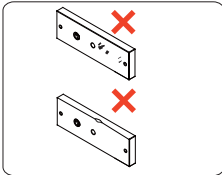
G LZ bracket for inswing doors



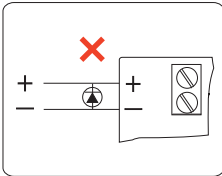
H Note:



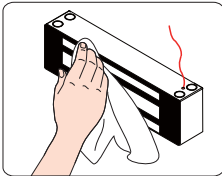
The magnetic lock must face-to-face align with the armature plate or the holding force will decrease by 80%.



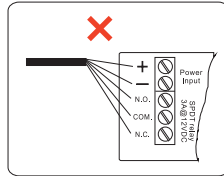
Make sure the faces of the magnetic lock and the armature plate are clean, intact and no rust.



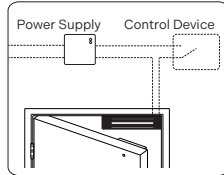
Remove any diode and varistor to prevent the door from delayed opening.



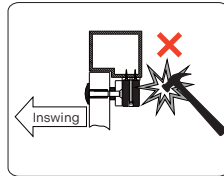
Regularly wipe the surface of the magnetic lock with anti-rust oil.



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



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



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

I 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	—		
N10010STM-12 N10010STM-24 N10010STM-12-3M N10010STM-24-3M	5 Wire Leads		✓		Indicates the locked (N.O. contact) or unlocked (N.C. contact) status Access Control Rating : 0.1A/20VDC(Resistive load)
N10010ST N10010ST-3M	4 Wire Leads		—		
N10010STR N10010STR-3M	6 Wire Leads	12VDC / 24VDC	✓		Indicates the locked (N.O. contact) or unlocked (N.C. contact) status Access Control Rating : 0.1A/20VDC(Resistive load)
N10010STM N10010STM-3M	7 Wire Leads		✓		Indicates the locked (N.O. contact) or unlocked (N.C. contact) status Access Control Rating : 0.1A/20VDC(Resistive load)

J Trouble Shooting

Problem	Possible Cause	Solution
Door does not lock	No power	1. Make sure the wires are properly connected. 2. Make sure the power supply unit works well. 3. Make sure the relay is connected to the N.C. contact.
Low holding force	Poor contact between electromagnet and armature plate	1. See if the armature plate is deformed. 2. Make sure to insert the rubber washer between the armature plate and the bracket. 3. See if the surfaces of the armature plate and the magnetic lock are clean.
	Low voltage or incorrect voltage setting	1. Check if the voltage selection is correct. 2. 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.