ELECTRIC LOCKS

Electric Bolt Lock User Manual

ISO9001 CERTIFIED EWC118303Q ISO9001 CERTIFIED EWC118303Q APPROVED

Welcome to use Advanced Lock products. In order to protect your rights and interests, read this User Manual carefully before use. Please contact the dealer or the manufacturer in case of query.

Applicable Range: This lock is applicable for office buildings and frame door at the entrance of residence community.

Product Advantage: Recessed type installation and pleasant-looking appearance. The electromagnetic part adopts high-quality magnetic materials and special processing workmanship to ensure no residual magnetism even after long time operation. This lock was designed and manufactured based on electronic, mechanical and mechanics principle to realize low-current operation and reduce rate of failure and maintenance. Auxiliary bracket can be used for installation of frameless glass door.

Door Opening: 180° and available for load of 1000kg.

Electrical Property and others: Users can select suitable products with different models and functions based on the following table. Customization is available according to users' requirements.

Model	Lock size (mm)	Voltage (DC)	Current (mA)		UnLock mode	Door signal	Lock Signal	With Ball Plunger	Indicator Lamp	Delay function
			Start-up	Working						
AL-100	200X35X38	12V±15%	350	350	Unlock by disconnecting power	Yes	/	/	NO	No delay function
AL-300	200X35X38	12V±15%	650	250	Unlock by disconnecting power	Yes	/	/	Yes	Adjustable at 0, 3, 6, 9 seconds (See Diagram 1)

Wiring: 1. **Power source:** Red wire is the positive (+) input end of the lock power source and shall be connected to positive end. Black wire is the negative (-) input end of the lock power source and shall be connected to negative end of the power source (12VDC).

2. **Door signal (conventional 2 wires configuration upon delivery):** Two white wires are used for door status signal [NO (normal open) indicates door opening status] output end. Limited current of door status signal is 300mA when the input voltage is 12VDC. Overload is forbidden. Door opening and closing status can be monitored after it is connected to the central control room.

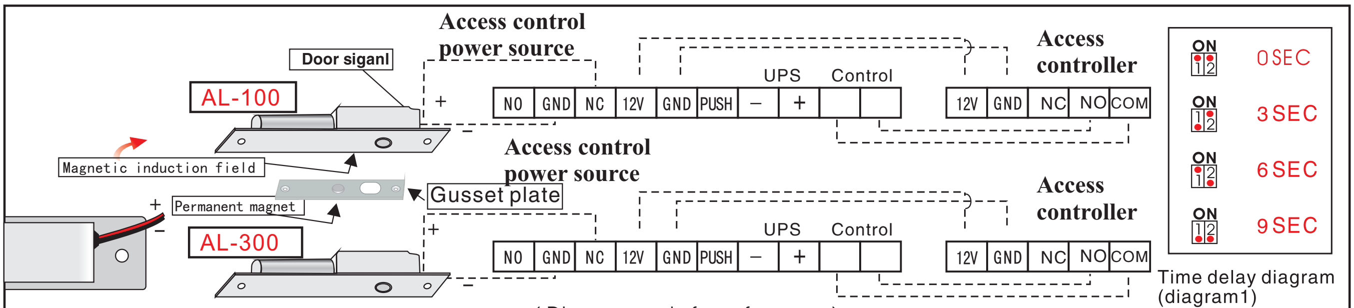
3. The indicator lamp indicates working status of the electric lock and turns red after connected to power.

①**Door signal (nonconventional 3 wires configuration, customized):** When the door is under the opening status, the green wire, blue wire and orange wire refer to COM (common wire), NC (normal close) and NO (normal open) respectively. Limited current of door status signal is 300mA when the input voltage is 12VDC. Overload is forbidden. Door opening and closing status can be monitored after it is connected to the central control room.

②**Lock signal (conventional 2 wires configuration upon delivery):** When the door is under the opening status, the purple wire and light blue wire output NO (normal open) lock signals. The purple wire and orange wire output NC (normal close) lock signals. In case of 2-wire signal output (select only one between NO and NC), limited current of lock status signal is 300mA when the input voltage is 12VDC. Overload is forbidden. Locking and unlocking status can be monitored after it is connected to the central control room.

③ **Lock signal (nonconventional 3 wires configuration, customized):** When the door is under the opening status, the purple wire, orange wire and light blue wire refer to COM (common wire), NC (normal close) and NO (normal open) respectively. The purple wire and orange wire output NC (normal close) lock signals. Limited current of lock status signal is 300mA when the input voltage is 12VDC. Overload is forbidden. Locking and unlocking status can be monitored after it is connected to the central control room.

Remark: ①②③can be customized.



(Diagram only for reference)

Standard packing list

Number	Item		Specification	Qty	Unit	Remark (s)
1	Electric Bolt Lock		L200XW35XH38	1	PC	
2	Gusset Plate		L100XW30XH15	1	PC	
3	Cover metal Plate		L210XW40XH1	1	PC	
4	Fittings	Wood Sctew	M4X21	5	PC	Applicable to the fixed door lock, gusset plate.
		Machine Screw	M5×10	5	PC	Fixed for metal doors, gusset plate.
5	Manual / Installation		/	1	/	
6	Certificate		/	1	/	

Component

Number	Series		AL-100	AL-300	Applicable Range	Remark (s)
1	Bracket	Upper Bracket	AL-200PZ	AL-200PZ	For upper frameless glass door	The distance between glass door and door frame can not less than 7mm on frameless door.The distance between glass door and door frame can not less than 4mm on unilateral frameless door.
		Down Bracket	AL-100PF	AL-100PF	For down frameless glass door	
2	Side mount bracket for hollow frame				For hollow door or hollow frame	

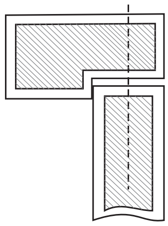
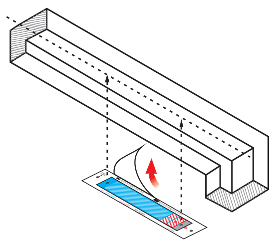
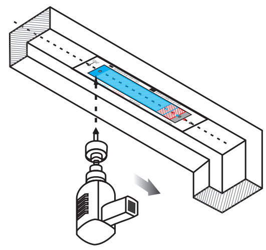
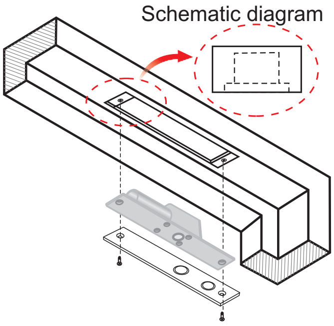
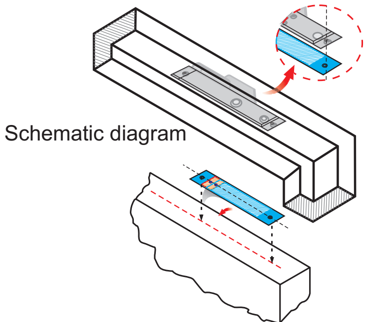
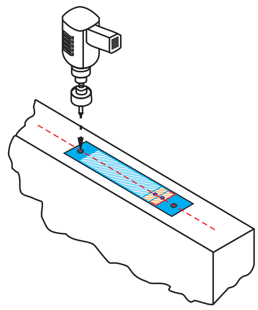
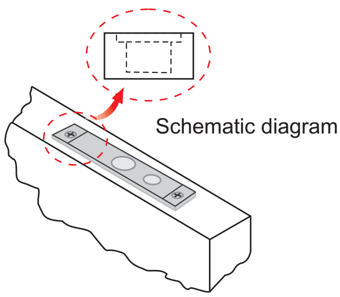
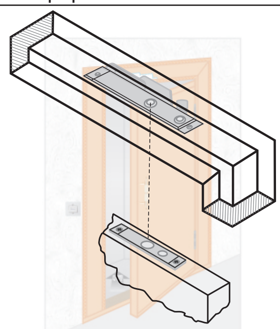
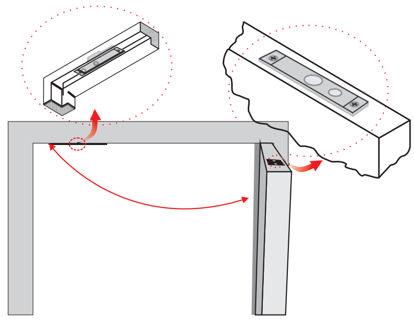
Precautions: 1. Installation shall be conducted as per the User Manual and the installation drawing. Cut off the power during installation and wiring. Do not carry out wiring with power connected.

2. Select qualified power source and wires to avoid out of service of the lock due to abnormal power supply. It is recommended to connect the lock to the power source.
3. Make sure the installation position is proper and firm. Otherwise, the bolt will lock improperly and the lock will produce heat, leading to shortening of lock service life.
4. If the lock fails to work after the power is connected, check whether the permanent magnet is aligned to the magnetic induction area and check connection correctness of the electric circuit & power source. If the multimeter is used to measure the load, make sure that voltage at lock power input end shall not be less than 12VDC.

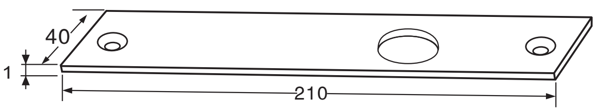
Diagram for Electric Bolt Lock Installation Procedures

(1) Installation Procedures

Note: Call us for installation method for hollow door and metal door.

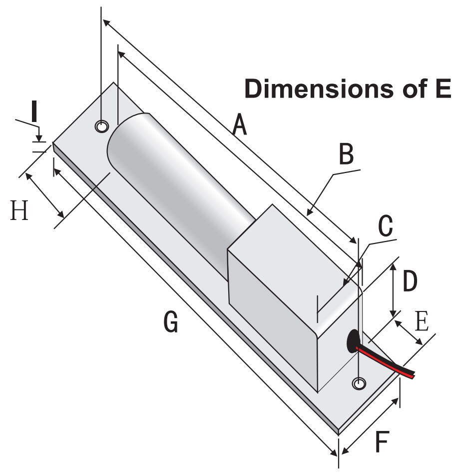
 Step 1: Firstly make sure the door is closed properly. Then decide the center line and mark on the doorframe and door leaf.	 Step 2: Align the center line of perforated sticking paper to the center line on the doorframe. Then stick the paper on it.	 Step 3: Use drilling tool to drill holes at positions corresponding to type of electric bolt lock.
 Step 4: Fix the lock and the decoration plate on the doorframe based on the holes.	 Step 5: Decide the center line according to the door, electric bolt lock and the bolt. Then stick the perforated paper to the door.	 Step 6: Use special drilling tool to drill holes on relevant type of magnetic buckling plate according to corresponding electric bolt lock.
 Step 7: Fix the magnetic buckling plate on the door with screws.	 Step 8: Keep alignment between bolt center line and the center line of bolt hole on the magnetic buckling plate.	 Step 9: After installation is finished, typical wooden door installation effect is shown in the diagram above.

(2) Installation diagram



Cover metal plate

Dimensions of Electric Bolt Lock



Position / Model	A	B	C	D	E	F	G	H	I
AL–100	180	155	29	35	23	35	200	21	3
AL–300	180	135	29	35	43	35	200	21	3