Electric Strike Series

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ELECTRIC LOCKS

AL-130 Series Electric Strike User Manual

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 use together with anode mechanical lock or ball lock in office buildings, wooden doors, stainless steel doors, fire doors and entrance gate 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 normal use and no residual magnetism even after long time operation.

**Door Opening:** 90° and available for load of 250kg **Electrical Property:** Users can select appropriate products with different models and functions based on the following table. Customization is available according to users' requirements.

Model	Voltage (DC)	Current (mA)	Unlock Method	
AL-130NO	12V±15%	240	N0 - unlock by connecting power	Customization is available for
AL-1 30NC	12V±15%	120	NC - unlock by disconnecting power	products with 6-24VDC;

Wiring: 1. One diode is an accessory provided in the accessory bag. The diode is used to prevent bounce-back current and voltage produced during locking or unlocking from affecting the access control mainframe. Users can connect the diode to the wiring terminal in parallel.



Precautions: 1. Read this User Manual carefully before installing the electric strike.

2. Select qualified power source and wires to avoid insufficient locking force caused by abnormal power supply.

3. This lock has no delay function. If delay function is necessary, it shall be used together with the controller.



# AL-130 Series Electric Strike Installation Drawing

Magnetic Lock Series

Electric Bolt Lock series

Electric Strike Series

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Mechanical Lock Seriess

AL-131 Series Electric Strike User Manual 🛛 🕢 💮 💇 🍘 🕅 🎮 СЕ 🖪

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Applicable Range: This lock is applicable for use together with an ode mechanical lock or ball lock in office buildings, wooden doors, stainless steel doors, fire doors and entrance gate of residence community.

Product Advantage: Recessed type installation, pleasant-looking appearance, wide lock mouth and more extensive application. The electromagnetic part adopts high-quality magnetic materials and special processi ng workmanship to ensure normal use and no residual magnetism even after long time operation.

**Door Opening:** 90° and available for load of 400kg

Electrical Property: Users can select appropri ate products with different models and functions based on the following table. Customization is available according to use rs' requirements.

Model	Voltage (DC)	Current (mA)	Unlock Method	
AL-131NO	12V <u>+</u> 15%	240	N0 - unlock by connecting power	Customization is available for products with 6-24VDC;
AL-131NC	12V±15%	120	NC - unlock by disconnecting power	

Wiring: 1. One diode is an accessory provided in the accessory bag. The diode is used to prevent bounce-back current and voltage produced during locking or unlocking from affecting the access control mainframe. Users can connect the diode to the wiring terminal in parallel.



Precautions: 1. Read this User Manual carefully before installing the electric strike.

2. Select qualified power source and wires to avoid insufficient locking force caused by abnormal power supply.

3. This lock has no delay function. If delay function is necessary, it shall be used together with the controller.



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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 manufact urer in case of query.

Applicable Range: This lock is applicable for use together with an ode mechanical lock or ball lock in office buildings, wooden doors, stainless steel doors, fire doors and entrance gate of residence community.

Product Advantage: Recessed type installation, pleasant-looking appearance, wide lock mouth and more extensive application. The electromagnetic part adopts high-quality magnetic materials and special processi ng workmanship to ensure normal use and no residual magnetism even after long time operation.

**Door Opening:** 90<sup>°</sup> and available for load of 400kg

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

Model	Voltage (DC)	Current (mA)	Unlock Method	
AL-132NO	12V±15%	240	N0 - unlock by connecting power	Customization is available for products with 6-24VDC;
AL-132NC	12V±15%	120	NC - unlock by disconnecting power	

Wiring: 1. One diode is an accessory provided in the accessory bag. The diode is used to prevent bounce-back current and voltage produced during locking or unlocking from affecting the access control mainframe. Users can connect the diode to the wiring terminal in parallel.



Precautions: 1. Read this User Manual carefully before installing the electric strike.

2. Select qualified power source and wires to avoid insufficient locking force caused by abnormal power supply.

3. This lock has no delay function. If delay function is necessary, it shall be used together with the controller.



# AL-132 Series Electric Strike Installation Drawing

Mechanical Lock Seriess

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**AL-133 Series Glass Door Lock User Manual** 

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 manufact urer in case of query.

Applicable Range: This lock is applicable for use together with an ode mechanical lock or ball lock in office buildings, wooden doors, stainless steel doors, fire doors and entrance gate of residence community.

Product Advantage: Recessed type installation, pleasant-looking appearance, wide lock mouth and more extensive application. The electromagnetic part adopts high-quality magnetic materials and special processi ng workmanship to ensure normal use and no residual magnetism even after long time operation.

**Door Opening:** 90<sup>°</sup> and available for load of 250kg

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

Model	Voltage (DC)	Current (mA)	Unlock Method	
AL-133NC	$12V \pm 15\%$	240	NC-unlock by disconnecting power	

Wiring: 1. One diode is an accessory provided in the accessory bag. The diode is used to prevent bounce-back current and voltage produced during locking or unlocking from affecting the access controller. Users can connect the diode in parallel to the wiring terminal at the electric lock power input end.



Precautions: 1. Read this User Manual carefully before installing the electric strike.

- 2. Select qualified power source and wires to avoid insufficient locking force caused by abnormal power supply (insufficient power).
- 3. This lock has no delay function. If delay function is necessary, it shall be used together with the controller.





**Electric Bolt Lock User Manual** 

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 manufact urer 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	Voltage (DC)	Curren	t (mA)	UnLock mode	Door	Lock	With Ball	Indicator	Delay function
wouer	(mm)	Voltage (DO)	Start-up	Working	ONEOOK MOUC	signal	Signal	Plunger	Lamp	Delay function
AL-100	200X35X38	12V±15%	350	350	Unlock by disconneting power	Yes			NO	No delay function
AL-300	200X35X38	12V±15%	650	250	Unlock by disconneting power	Yes			Yes	Adjustable at 0, 3, 6, 9 seconds (Se e 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.

- ①Door 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.
- ②Lock 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: 123 can be customized.

Access control		
Door sigani Power source UPS Control controller	<b>ON</b> 12	OSEC
AL-100 + NO GND NC 12V GND PUSH - + 12V GND NC NO COM	<b>ON</b> 12	3 SEC
Magnetic induction field	ON	0050
Access	<b>ON</b> 12	6 SEC
refinition in agrice control controller	<b>ON</b> 12	9 SEC
	ime dela diagram	ay diagram 1)
(Diggram only for reference)	anagram	• ,

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		Wood Sctew	M4X21	5	PC	Applicable to the fixed door lock, gusset plate.
4	Fittings	Machine Screw	M5×10	5	PC	Fixed for metal doors, gusset plate.
5	Manucal Installation			1	/	
6	Certificate			1	/	

#### Component

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

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.

Mechanical Lock Seriess

Electric Bolt Lock series Electric Strike Series Mechanical Lock Seriess

# **Diagram for Electric Bolt Lock Installation Procedures**

### (1) Installation Procedures

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



## (2) Installation diagram



Cover metal plate



Position Model	А	В	С	D	Е	F	G	Н	I
AL-100	180	155	29	35	23	35	200	21	3
AL-300	180	135	29	35	43	35	200	21	3

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**Magnetic Lock User Manual** 

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 manufact urer in case of query.

Applicable Range: This lock is applicable for use together with building interphone and access control system. This lock is applied extensively in security door, emergency door and fire door.

Product Advantage: The magnetic lock adopts professional magnetic materials and special processing workmanship. No residual magnetism is produced even after long time operation. Long-time use will not cause magnetization of adsorption plate and result in reduction

of adsorptive force. This lock has longer service life and is free of mechanical failure, abrasion and noise.

#### Auxiliary bracket can be used for installation of frameless glass door.

Door Opening: 90

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

Model	Dimensions (mm)	Voltage (DC)	Curr ent (mA)	Indicator Lamp & Signal Output (NC/NO)
AL-180M	198X21X35		380	Not provided
AL-180	166X21X40	12V±10%	380	Not provided
AL-180D	332X21X40		760	Not provided
AL-280(LED)	253X25X48		500/250	Provided
AL-280D(LED)	506X25X48		1000/500	Provided
AL-350(LED)	253X28X55	12V±10% 24V±10%	500/250	Provided
AL-350D(LED)	506X28X55	24110%	1000/500	Provided
AL-500(LED)	280X38.5X70		700/350	Provided
AL-500D(LED)	560X38.5X70		1400/700	Provided

Wiring: The positive phase and negative phase are connected to the power box. Use the model that has signal output. Signals are connected as required by users:

1. Connected to COM and NO if normal open signals are necessary;

2.Connected to COM and NC if normal close signals are necessary;

3. The indicator lamp turns red if the lock is separated from the adsorption plate or if contact is not thorough. The lamp will turn green if the lock and the adsorption plate contact with each other correctly.

4.In case of abnormal indicator lamp when the lock is working, it may be caused by improper contact between the lock and the adsorption plate. Adjust the position of the lock and the adsorption plate to ensure thorough contact.



Precautions: 1. Cables shall be larger than 0.75mm2 in case of power supply with a large power capacity (the output of power supply controlled within 12VDC±15% strictly). 2. The screw connecting locks and Armature plate shall be tightened. Check the fixing of the lock and the board after three months. 3. Install carefully to avoid damage to Armature plate and the galvanized coating of locks, and otherwise, the normal use, suction force and service life will

Install carefully to avoid damage to Armature plate and the gavanized coaling of locks, and otherwise, the formal use, solution force and service in be damaged.
The complete contact between the Armature plate and the lock as well as the size of contact surface will decide the suction force directly.
Ar ubber ring is required between the Armature plate and the lock so as to maintain a proper flexibility of the suck board, and tensive screws of the Armature plate shall not be fixed too tightly in order to maintain the appropriate flexibility of rubber ring.
Armature plate cannot be welded on the door directly, and otherwise, the normal use of magnetic locks will be damaged.
Wipe off rust-preventive oils on the locks with cotton cloth while alkaline or irritant detergents not allowed.



Series	Thickness (A1) (mm)	Thickness (A2) (mm)
AP-180	>38	>48
AP-280	>43	>53
AP-350	>46	>56
AP-500	>58	>68

10.During installation of this product, offset (toward right, left, upside and downside) of center position of both the adsorption plate and the lock shall not exceed 3mm.



Direction	X(mm)	Y(mm)
Left	≤3	0
Right	≪3	0
Up	0	≤3
Down	0	≤3



#### Wiring Description (see Fig.1)

Precautions for installation of adsorption plate:

1. The rubber ring in the accessory bag must be installed between the adsorption plate and the door to ensure impulse force and balance the contact between each other. 2. The screw fixing the adsorption plate shall not be tightened excessively. Allow proper resilience for the rubber ring to make it available for

adjusting the adsorption plate to the correct position so as to produce maximal adsorption force. (See Fig.2)

Series /Model		Dimension Identification								
		А	В	С		D	F	F	G	Н
	AP-180D	332	35	2	1	6	21	130	32	11
D-Sucking Disk	AP-280D(LED)	506	42	24	4.5	6	24.8	185	38	12
	AP-350D(LED)	506	48	2	7.5	6	27.3	185	48	12
	AP-500D(LED)	560	70	38	8.5	7	37.5	184.5	58	14.5
H/L Sucking Disk		A1	B1	С	1	D1	E1			
	AP-180	166	35	2	1	6	21	130	32	11
	AL-280(LED)	253	42	2	5	6	24.8	185	38	12
	AP-350(LED)	253	48	2	7.5	6	27.3	185	48	12
	AP-500(LED)	280	63	3	7.5	7	37.5	184.5	58	14.5
		A2	B2	C2	D2	E2	F2			
T-sucking Disk	AL180M	166	35	21	198	20	182	130	33	11

Electric Strike Series

Mechanical Lock Seriess

Diagram of Magnetic Lock Auxiliary Bracket Installation Procedures (Inward-opening Door: AL-180PL, AL-180DPL, AL-280PL, AL-280PL, AL-350PL, AL-350PL, AL-500PL, AL-500PL, AL-180PZ, AL-280PZ, AL-350PZ, AL-500PZ)



Step 1: Use cross screwdriver to fix the L-auxiliary bracket to the doorframe.



Step 4: Use Allen key to install the lock to L- bracket. Be careful to hold the screw to prevent slipping.



Step 7: Use cross screwdriver to assemble the Z- bracket.



Step 10: Installation is finished.



Step 2: Use cross screwdriver to dismount the anti-dismantle screw on the lock.



Step 5: Use cross screwdriver to mount the anti-dismantle screw onto the lock.



Step 8: Install the sub-plate to the Z- bracket (see schematic diagram in Fig.8).



Note: The rubber ring must be installed to keep proper resilience (see Fig.10).



Step 3: Use Allen key to separate the connecting plate from the bottom of the lock. Be careful to hold the screw to prevent slipping.



Step 6: Status of the lock after installation



Step 9: Fix Z- bracket to relevant position on the door leaf. (Note: Keep tight contact between the sub-plate and the lock)

Position Model	Length	Width	Height
AL-180PL	166	26	50
AL-180DPL	332	26	50
AL-180PZ	131	40	100
AL-280PL	253	30	50
AL-280DPL	506	30	50
AL-280PZ	185	50	100
AL-350PL	253	30	50
AL-350DPL	506	30	50
AL-350PZ	185	50	100
AL-500PL	280	42	72
AL-500DPL	560	42	72
AL-500PZ	185	65	133

**Diagram of Magnet ic Lock Auxiliary Bracket Installation Procedures** (Downside Frameless Glass Door: AL-180PU, AL-280PU, AL-350PU, AL-500PU)



Step 1: Use cross screwdriver to dismount the anti-dismantle screw on the lock.



Step 4: Use Allen key to install the lock onto the doorframe connecting plate in corresponding position.



Step 7: Use screws to fix the sub-plate and the U- bracket. Their positions shall be consistent. Make sure the rubber ring is installed during installation.



Step 2: Use Allen key to separate the connecting plate from the bottom of the lock.



Step 3: Use screws to fix the connecting plate to the doorframe and fix relevant positions.



Step 5: Use cross screwdriver to install wire box cover and the anti-dismantle screws.



Step 6: Install U- bracket to the glass door and align it with lock position on the doorframe. Then fix it with screws.



Step 8: Installation effect

1			
Position Model	Length	Width	Height
AL-180PU	140	29	40
AL-280PU	195	29	40
AL-350PU	195	29	40
AL-500PU	198	42	66



Magnetic Lock Series

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**Diagram of Electric Bolt Lock Upward Bracket Installation Procedures** (AL-200PZ)



# **Diagram of Electric Bolt Lock Downward Bracket Installation Procedures** (AL-100PF)

