



Pleasant-Looking with Drop Bolt AL100/AL300

The Drop Bolt AL100/AL300 is a locking system which can be installed either on the floor or on the top of the door frame. When power is applied, a bolt protrudes from the lock and lodges itself into the strike plate which is mounted on the door frame. Optional brackets are available for installers to mount the system on different types of doors. The electric drop bolt is designed to retract when there is a power failure or when the "break-glass" switch is activated. It is an optional feature to link the locking mechanism to the Fire Alarm panel as it involves no linking and maintenance costs.



BENEFITS

- Aesthetically pleasant-looking, as the lock is mounted flush into or onto the frame with nothing protruding outwards. This is a preferred system to be mounted on glass doors and glass doorframes.
- The electric drop bolt will not retract unless the "open button", access control release, or the "break-glass" switch is activated, hence it is a very secured locking system.
- The doors can open in both inward and outward directions.

SPECIFICATIONS

		
MODEL	AL100	AL300
POWER INPUT	DC12V	
OPERATING CURRENT	900mA	
HOLDING CURRENT	360mA	
DELAY TIME	0/3/9 seconds	
DOOR SWING ANGLE	180°	

OPTIONAL ACCESSORIES

DOOR FRAME BRACKET
 Bracket to mount drop bolt on frameless door (w/metal plate)



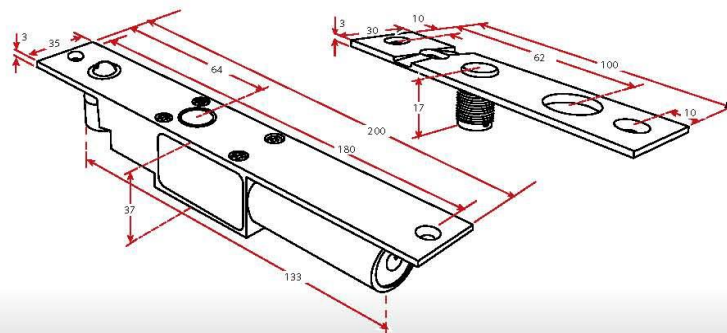
DOOR LEAF BRACKET
 Bracket to mount gusset plate on frameless door (w/metal plate)



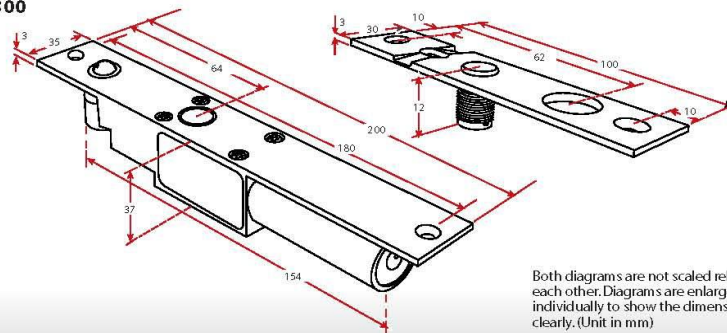


DIMENSION SPECIFICATION

AL100



AL300



Both diagrams are not scaled relative to each other. Diagrams are enlarged individually to show the dimensions clearly. (Unit in mm)

INSTALLATION DIAGRAM

Framed door

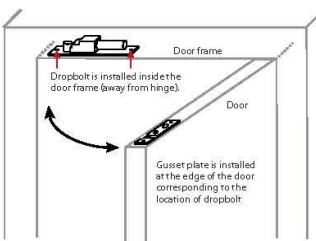


Fig 1: Dropbolt and gusset plate mounting location on framed door

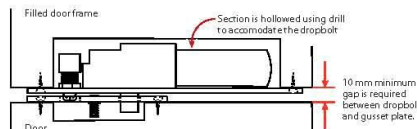


Fig 2: Side cross section diagram when door is closed for filled door frame

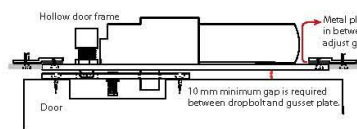


Fig 3: Side cross section diagram when door is closed for hollow door frame

Frameless door

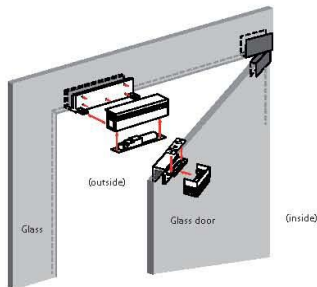


Fig 4: FEC235 and FEC130 bracket mounting on frameless door

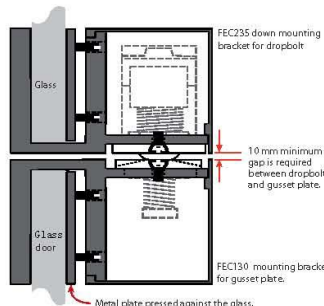


Fig 5: Front cross section diagram when door is closed.



ELECTRIC BOLT ACTION LOCK INSTALLATION MANUAL

- POWER SUPPLY: DC12V 1A.
- OPERATION CURRENT 900mA, HOLDING CURRENT 360mA .
- FAIL-SAFE TYPE (POWER LOCK)
- DOOR SENSOR: N.C.(SL-100A), N.C. & N.O.(SL-100B)
- OPERATION DELAY TIME: 0 SEC. 2.5SEC. 5SEC. 9SEC.
- BUILT-IN DELAYED EGRESS CONTROL POINT
- FACE PLATE: 200mm(L)x32mm(W)x40mm(D)
- STRIKE PLATE: 90mm(L)x26mm(W)x2mm(D)

BROWN : GND

RED : + DC12V

ORANGE : PUSH BUTTON

YELLOW : DOOR POSITION SENSOR(N.C.)

GREEN : DOOR POSITION SENSOR(COM.)

BROWN : GND

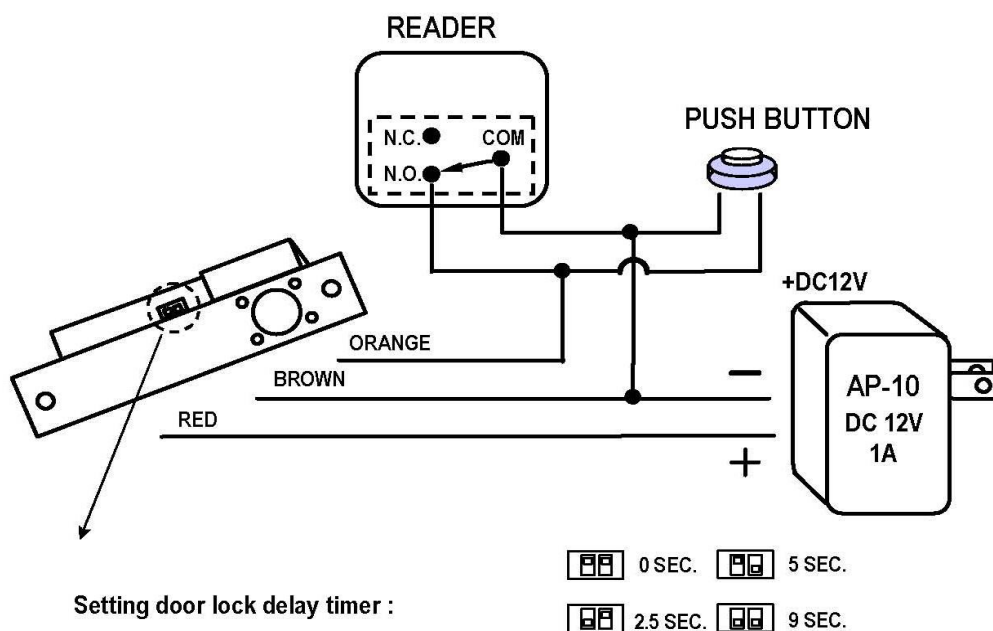
RED : + DC12V

ORANGE : PUSH BUTTON

YELLOW : DOOR POSITION SENSOR(N.C.)

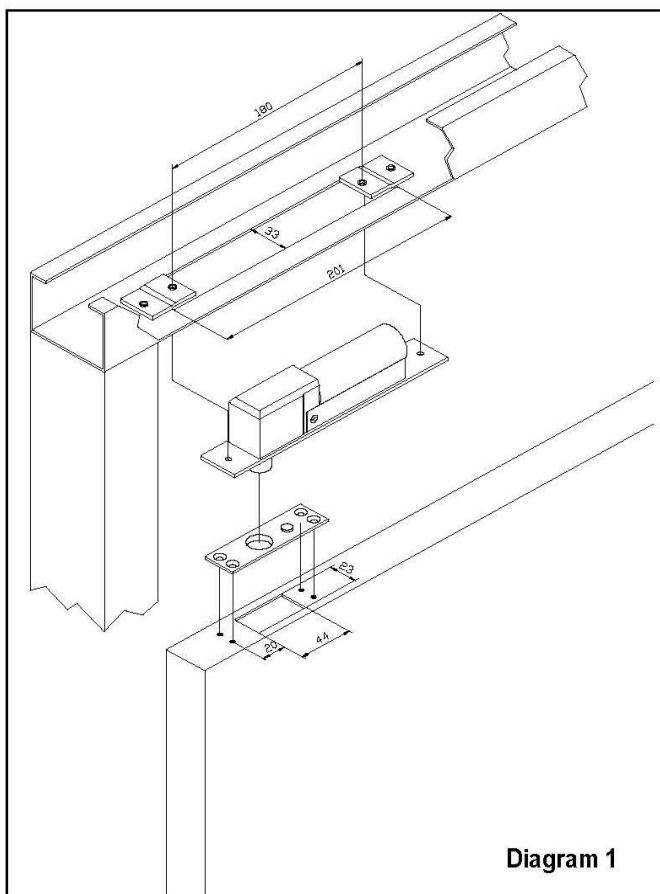
GREEN : DOOR POSITION SENSOR(COM.)

BLUE : DOOR POSITION SENSOR(N.O.)



※Please switch on the appliance again to validate any adjustment of DIP switch value

Installation:



Instruction:

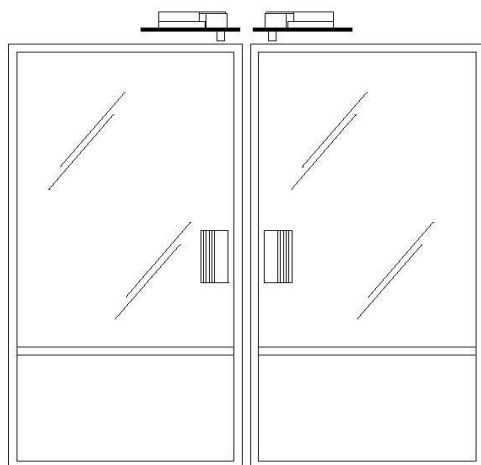
Diagram 1: Dimensions

Diagram 2: For double door mounting

Diagram 3: For single door mounting

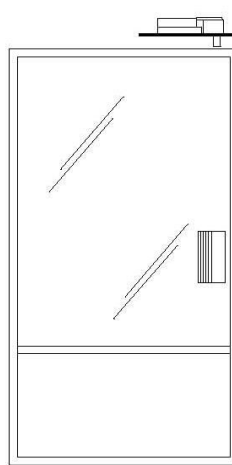
Diagram 4: For vertical mounting
Important-For vertical mounting, wires must come out the top of the unit.

Diagram 2



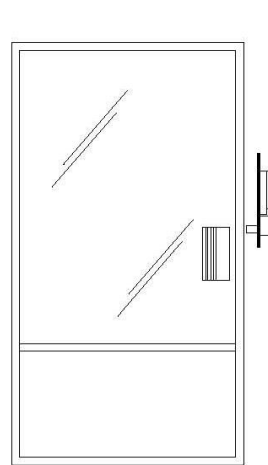
For double doors

Diagram 3



For single doors

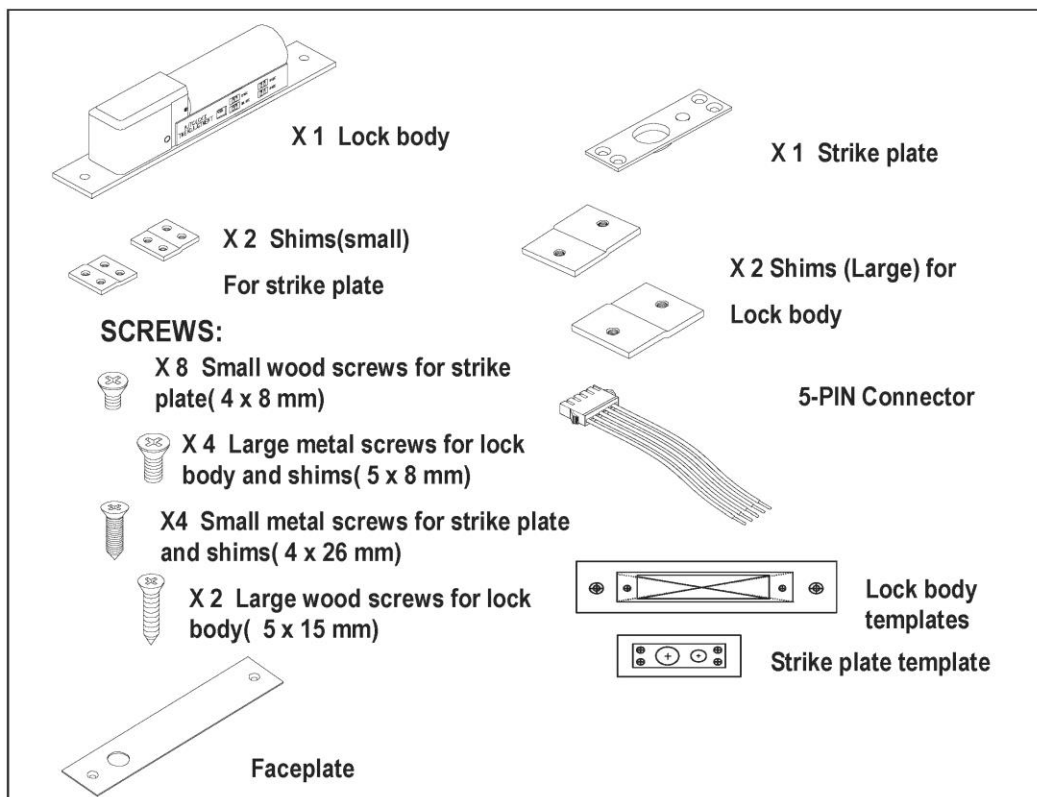
Diagram 4



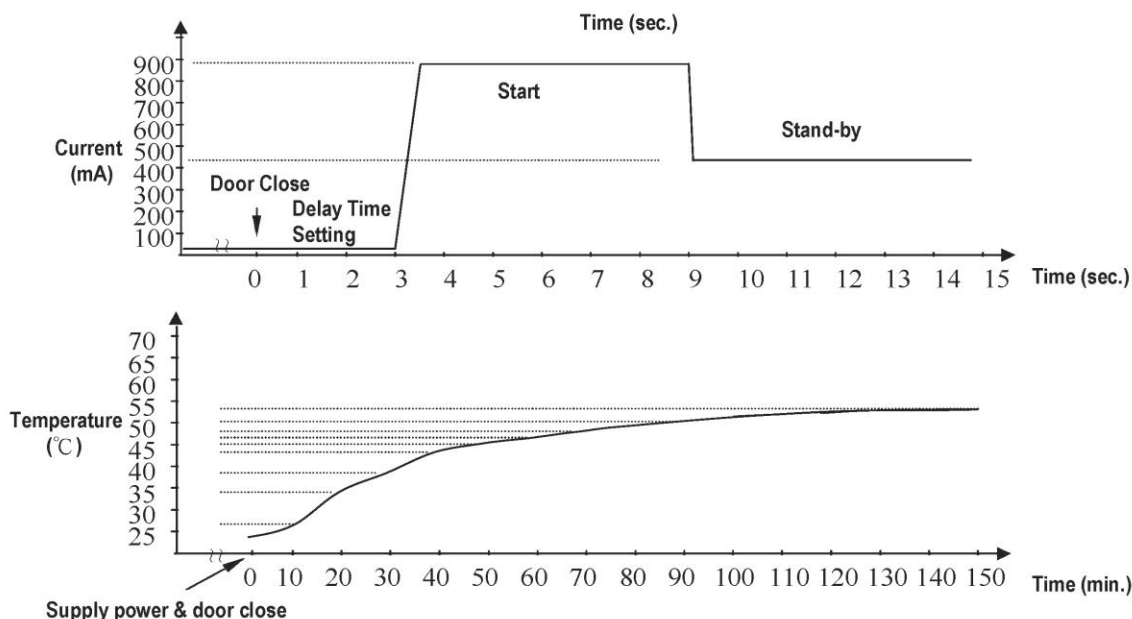
For single doors



Accessories:



Current and Temperature Chart:

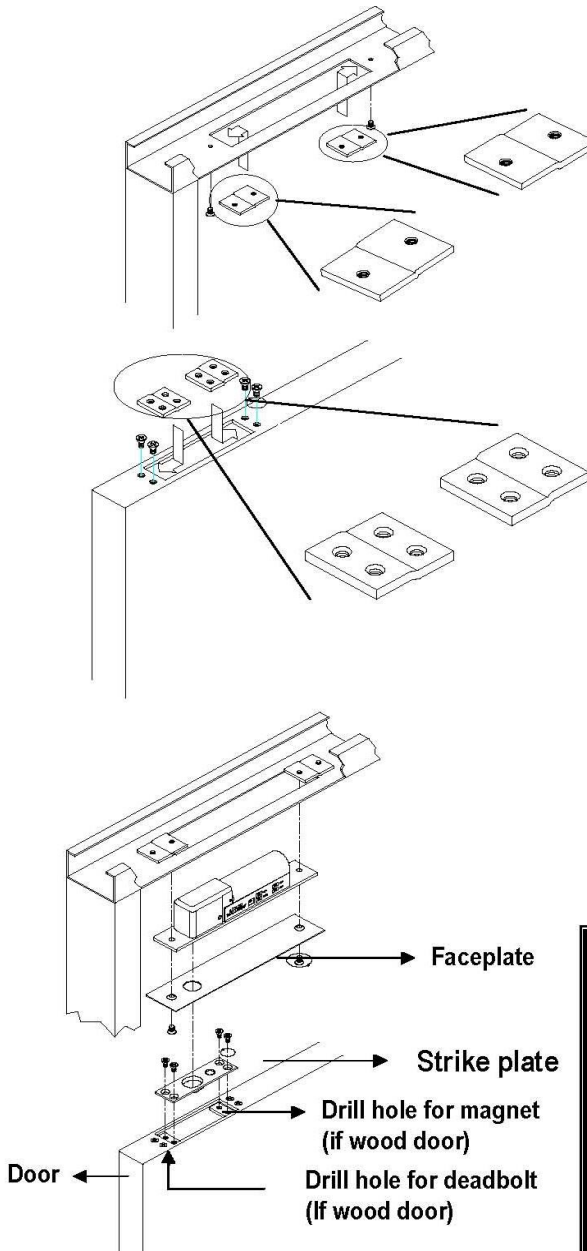




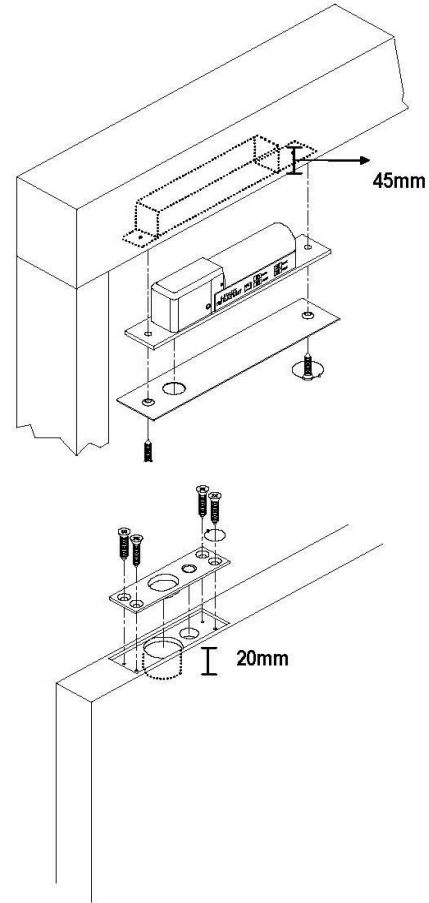
Installation:

For hollow metal doors:

Please make sure the correct direction of the shims when mounted



For wood doors:



Question & Answer

◆	The lock is hot?
□	The operating temperature of the lock is normally within 55°C.
◆	No operation after installation?
□	1.Please check power supply. 2.Please check if the direction of the template is being installed correctly 3.Please check the connection points(N.O or N.C)
◆	Lock will open when force is applied on the reader (eg. Hitting hard or vibrating the reader).?
□	1.Please check all the connections . 2.Reader's N.C points might strike immediately when force is being applied on it this eventually causes the fail-safe type of lock to open when sudden power cut occurred. Please refer to page 1 for wiring to prevent such case happen.