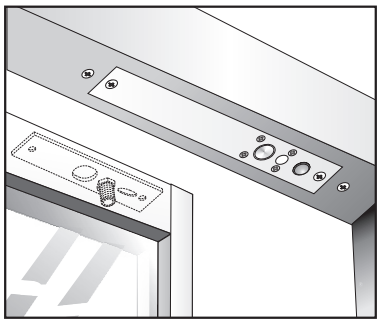
Electric Dropbolt Installation Instruction (Fail-Safe Series)

Specifications

Series	EB180/185	EB190/195	EB220	EB262	EB300	EB400
Power Input	12/24 VDC	12/24 VDC	12 VDC	12 VDC	12 VDC	12 VDC
Voltage Tolerance	±10%					
Current Draw: (at temperature 20°C)	Pull in: 0.9A/12VDC 0.4A/24VDC Holding: 0.15A/12VDC 0.1A/24VDC	Pull in: 0.9A/12VDC 0.45A/24VDC Holding: 0.15A/12VDC 0.1A/24VDC	Pull in: 0.9A/12VDC Holding: 0.3A/12VDC	Pull in: 0.9A/12VDC Holding: 0.3A/12VDC	Pull in: 0.9A/12VDC Holding: 0.3A/12VDC	Pull in: 0.9A/12VDC Holding: 0.3A/12VDC
* Monitoring output	BSS	BSS DPS	BSS	BSS	DPS	BSS
Operating Temperature	-10~+45°C					
Humidity	0~95%					
Relock Time Delay **(Default setting)**	0,3,6,9 seconds Default: 1 second					
Auto-detective circuitry	√	√	√	√	√	√

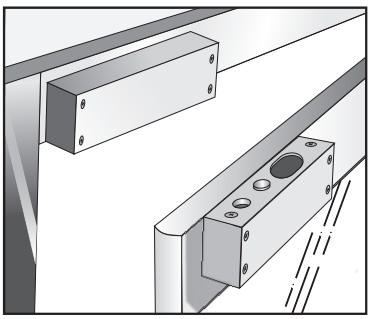
Note: BSS= Bond sensor status (Locked or unlocked) ; DPS= Door position status (Door open or closed)

Standard frame (1.75" frame) mortise mount



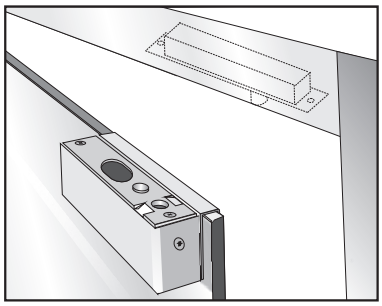
EB180/185
EB190/195
EB220
EB262

Surface mount (narrow frame)



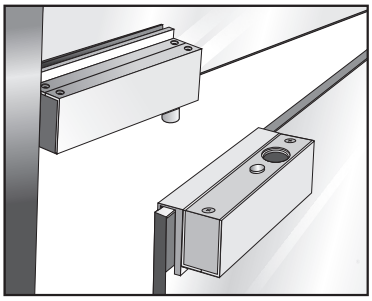
EB300
EB400

With UBK-262 for Frameless Glass door



EB220
EB262

Installation on Frameless Glass Door / Wall

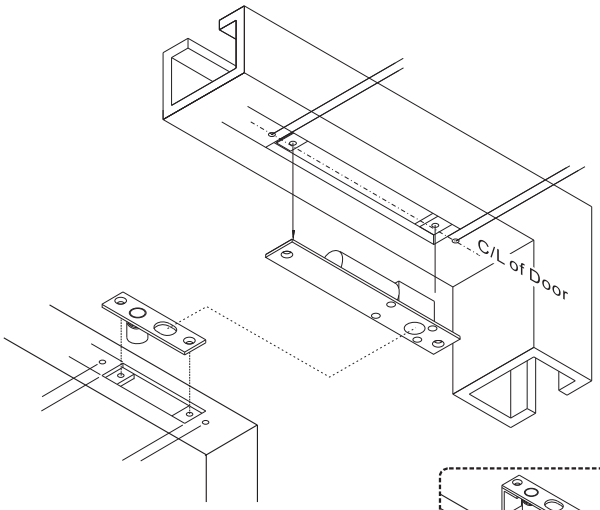


EB200NVGL
EB300VGL
EB195VGL

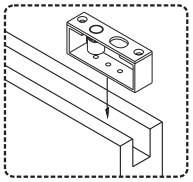
Mortise Mount

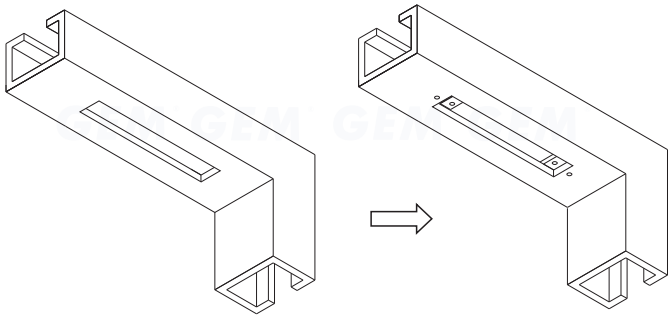
Hollow Metal Door Frame

Please refer to the particular pattern template for each specific cutting size and the location to drill the screw holes.



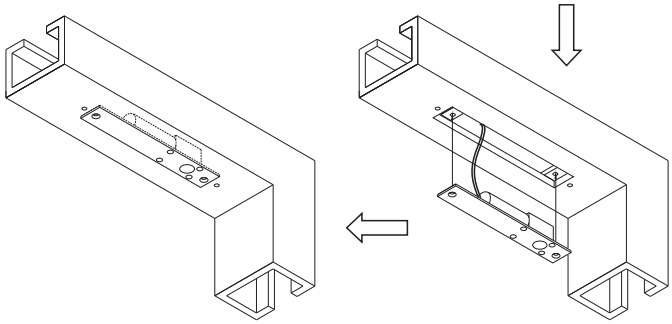
The C-Bracket can be used if the door leaf frame is concave.





Hole cutting

Position screws for fasten Fixing Lugs.



Assemble the lock and test it

Connect the power

General Installation Instructions:

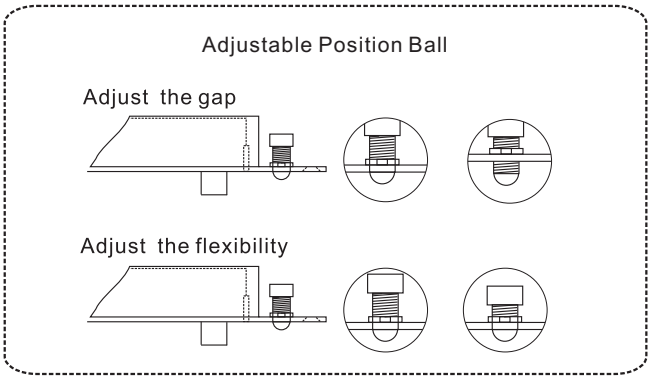
Ensure the width and depth of the door frame, door leaf (hollow metal door) are enough to install the lock body. Also check if it is possible to place the wires inside the door frame.
Ensure the double action door swings back to correct position after use to make sure the electric dropbolt locks up quickly. Therefore the hinge of the double action door is very important.

Check if the regulated power supply or controller can provide the current draw (pull in: 0.9A/12VDC , holding: 0.3A/12VDC) and that the voltage can be maintained during operation under all circumstances.

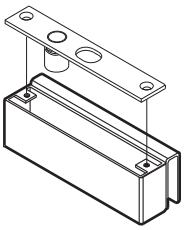
Warning:

The connection of an incorrect voltage may result in damage not covered by the product warranty. The selection of appropriate power supply cable is very important to ensure lock receives sufficient power to operate. This product has been designed for use in weather protected areas and under normal circumstances does not require any maintenance.

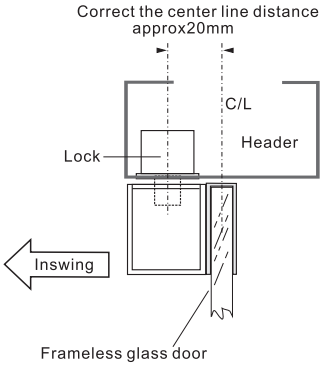
DO NOT OIL OR LUBRICATE.
This product must be used in conjunction with a quality floor spring or door closer to ensure positive realignment on closing.



Optional Bracket

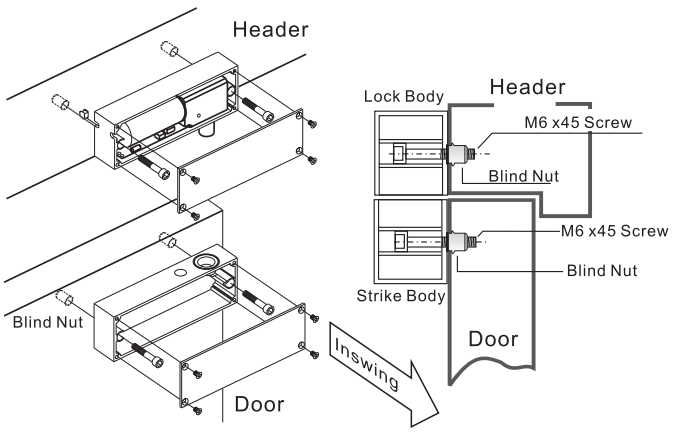


UBK-262 Bracket
For 10 or 12 mm thickness of glass

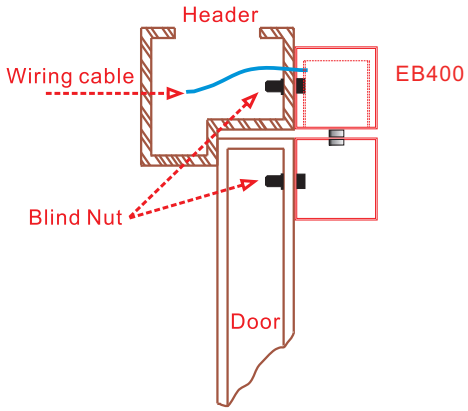


The UBK Bracket can be used on a frameless glass door. With optional 10mm or 12mm depending on the glass thickness. It is suitable for models EB-220 and EB-262. Installations: Fix the strike plate on the UBK-262 Bracket, add silicone for a firm grip on the glass door or on the bracket.

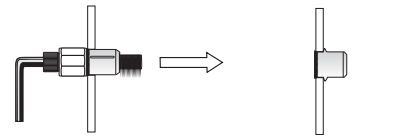
EB300-Surface Mount



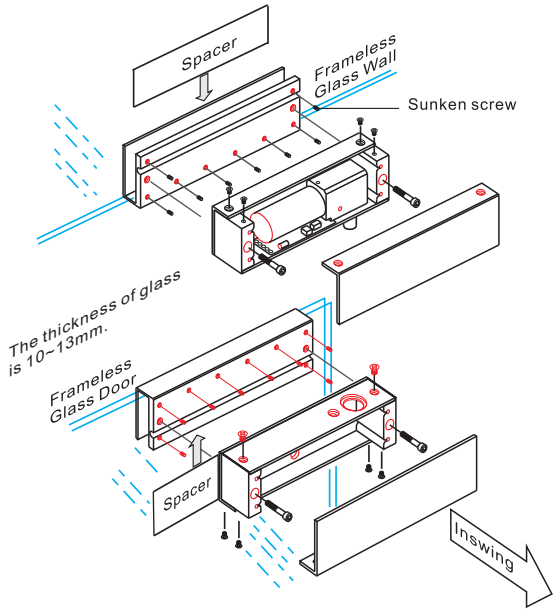
EB400-Surface Mount



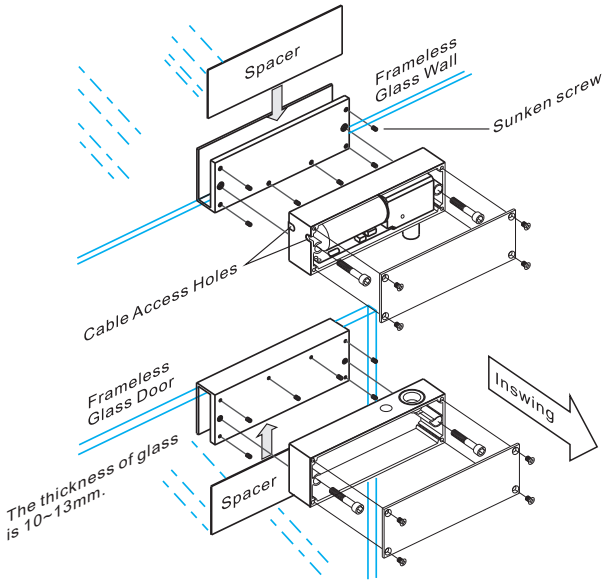
The Installation of Blind Nuts



EB195VGL for Frameless Glass Door/ Wall



EB300VGL for Frameless Glass Door/ Wall



Installation:

1.Clean the glass before installing , strike the face place on the glass (indoor)

2.The interior width of VGL bracket is 14mm , spacer thickness is 1 mm.

3.Stick the spacer in accordance to the glass thickness (10~13mm)

4.Put silicone inside the VGL bracket to hold firmly.

5.Lock the Sunken screw.

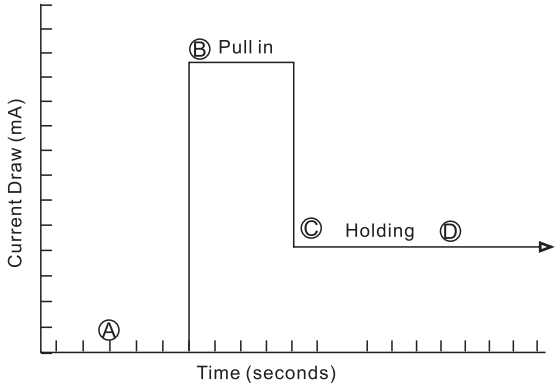
6.Use allen wrench to install the cover.

Caution:

1.Spacers are installed indoor.

2.Lock the sunken screws slightly or it will break the glass.

Energy Saving Design



Energy saving design: All Electric Dropbolt
Auto-detective circuitry: Unique self-detective logical circuitry designed to retract the bolt until the door is properly closed.

Ⓐ When the sensor magnet in the Strike Plate detects the reed in the lock body, the Dropbolt projects immediately.

Ⓑ After relock time delay for the Electric Dropbolt activates the pull in motion, the motion will not stop until theDropbolt locks the door properly.

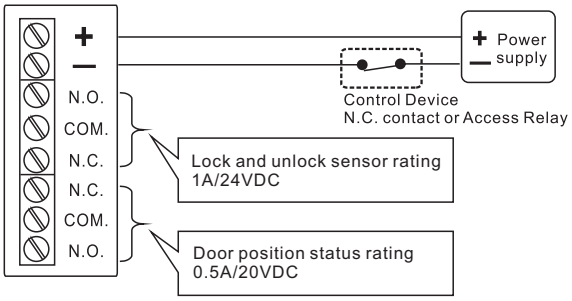
Ⓒ Under the energy saving design, after the dropbolt completely locks, the current draw will drop from high pull in current to low, continuing"holding state".

Ⓓ The reed in the lock body will automatically switches off at the same time when the dropbolt is locked.

Connecting Diagram

Caution:
Make sure that the "+" and "-" wires are connected correctly. Failure to observe polarity will result in a short circuit and is not covered by product warranty.

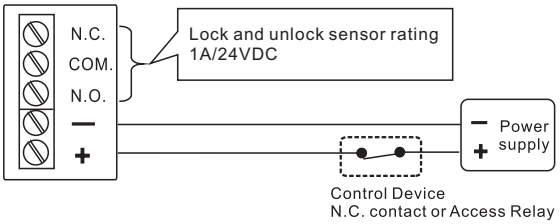
EB190/195/195VGL



Relock Time Setting

0 second | 3 seconds | 6 seconds | 9 seconds

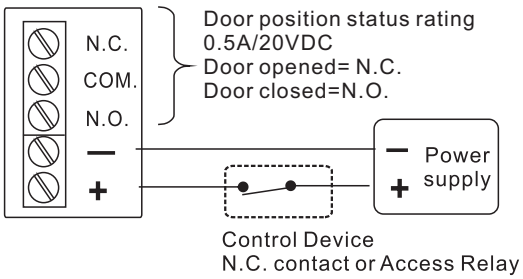
EB180/185,EB220, EB262



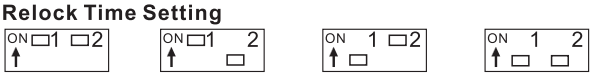
Relock Time Setting

0 second | 3 seconds | 6 seconds | 9 seconds

EB300, EB300VGL



Relock Time Setting



0 second | 3 seconds | 6 seconds | 9 seconds

Trouble Shooting

Problems	*Possible Cause*	*Solution*
Dropbolt does not activate when the door closed.	The gap between the strike plate and the electric dropbolt lock is far.	Adjust the distance between the reed in the lock body and the sensor magnet in the strike plate within 5 mm.
	Low in voltage / current.	Make sure the output voltage and the current draw are large enough for pull in 0.9A/12VDC.
The dropbolt keeps the projecting motion.	Low in voltage / current.	Make sure the output voltage and the current draw are large enough for pull in 0.9A/12VDC.
	The dropbolt is not locked correctly .	Adjust the door closer or the door hinge for the door leaf to close the door in the correct position.
		If solution 1. doesn't work, it is recommended to change the double action door to single action door.
The dropbolt cannot retract.	Strike Plate misaligned.	Release or sway the door to release the latch bolt to open the door.
		If solution 1. doesn't work, it is recommended to change the double action door to single action door.