Electric Dropbolt Installation Instruction . (Fail-Safe Series)

Specifications

	EB-180	EB-200	EB-200N	EB-220	EB-262	EB-300	EB-300VGL
Power Input	12/24 VDC	12 VDC	12 VDC	12 VDC	12 VDC	12 VDC	12 VDC
Voltage Tolerance	±10%	±10%	±10%	±10%	±10%	±10%	±10%
Current Draw: (at temperature 20 $^\circ\!\!C$)	Pull in: 0.9A Holding: 0.2A @12V DC	Pull in: 0.9A Holding: 0.3A					
* Monitoring output	BSS	BSS	DPS	BSS	BSS	DPS	DPS
Operating Temperature	-10~+45℃	-10~+45 ℃	-10~+45℃	-10~+45℃	-10~+45℃	-10~+45℃	-10~+45 ℃
Humidity	0~95%	0~95%	0~95%	0~95%	0~95%	0~95%	0~95%
Lock's surface Temperature (when the power is on)	≦current temp. +20℃	≦current temp. +20℃	≦current temp. +20℃	≦current temp. +20°C	≦current temp. +20℃	≦current temp. +20℃	≦current temp. +20℃
Auto Relocking Timer Setting (Default setting)	0, 3 ,6 ,9 s (0 second)	0,3,6,9 s (0 second)	0, 3 ,6 ,9 s (0 second)	0, 3 ,6 ,9 s (0 second)	0, 3 ,6 ,9 s (0 second)	0, 3 ,6 ,9 s (0 second)	0, 3 ,6 ,9 s (0 second)
Dimensions: mm Lock: Strike plate	210*25*41 100*25	203*32(38)*38 100*25	203*32(38)*41 100*25	220*38*38 140*26	262*35*38 140*26	166*34*56 166*34*56	166*34*56 166*34*56
Remark	logical circuitry	logical circuitry		logical circuitry	logical circuitry		

* BSS: Indicates bolt locked or unlocked status, Relay rated 3Amp@30VDC_SPDT. DPS: Indicates door position (opened or closed), Reed rated 0.25Amp@30VDC.



Standard frame(1.75" frame) flush installation





With UBK-262 for Frameless Glass door





A. Auto Relocking Timer Setting

It can adjust the door lock delay time between 0 to 9 This is the time, which takes the Dropbolt to seconds. automatically lock after the door is closed. Please refer to the connecting diagram for further detail.

B. Adjustable sensor magnet



Positioning Bolt is installed to prevent the chance of negative locking problem caused by the improper door positioning and also reduce the time it normally takes for the Dropbolt to automatically lock after the door is closed.

Surface Installation



EB-300

Installation on Full Frameless Glass Door



EB-300 VGL

Flush Installation Hollow Metal Door Frame

Please refer to each Electric Dropbolt model's template for each specific cutting size and the location to drill the screw holes. (Fits flush with surface of frame)

	Α	В	С	D	Ε	
EB-180	211	26	12	101	26	
EB-200	204	33(or 39)	40	101	26	
EB-200N	204	33(or 39)	40	101	26	
EB-220	221	39	40	141	26	
EB-262	263	36	40	141	26	



use if the door leaf frame is concave.





Mortise cutout in door frame for face plate .



Insert electric dropbolt into position, attach to Fixing Lugs.

Position screws for fasten Fixing Lugs.



Connect power cable to electric dropbolt.

General Installation Instructions:

Ensure you have the following: *Electric Dropbolt

- *Strike plate All rebate strips and/or frame stops be fitted before starting.
- Check with a suitable meter that the regulated power supply or controller being used can provide 1 amp@12V DC (voltage tolerance $\pm 10\%$) 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.





Frameless glass door

The UBK Bracket can be use 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.

Surface Mount Installation-EB-300



The Installation of Blind Nuts





Remove the tool.

This compress the Blind Nut so that it remains permanently fixed in the

Connecting Diagram

Caution:

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Make sure that the "+" and "-" wire are connected correctly. Failure to observe polarity will result in a short circuit and is not covered by products warrant.



Installation: glass(indoor). Stick the spacer in accordance to the glass thickness for inseparable result. Put silicone for the glass to hold firmly. Lock the Sunken screw. Use allen wrench to install the outer cover. . Caution: Spacers are installed indoor. . Sunken screws cannot into contact with the glass, it will break the glass. Sunken screw contact with spacer is metal, other side is plastic, to hold firmly.

For Frameless Glass Door-EB-300VGL



- Clean the glass before installing, stick the face place on the



🕼 Clamp & Logical Circuitry



All Electric Dropbolt Locks in fail-safe series have clamp circuitry design. EB-180, EB-200, EB-220, EB-262 have logical circuitry.

- (A) When the sensor magnet in the Strike Plate detects the reed in the lock body, the Dropbolt projects immediately.
- After locking delay time for the Electric Dropbolt Lock to activate the pull in motion, the continuing projecting motion will not stop until the Dropbolt locked the door properly. The models with logical circuitry design are EB-180, EB-200, EB-220, EB-262.
- © Under the clamp circuitry design, after the Dropbolt completely locked, the current draw will drop from high 'pull in current' to low continuing 'holding current'.
- The reed in the lock body will automatically switch off at the same time when the Dropbolt locked.

I Trouble Shooting

Problems	Possible Cause	Solution				
Dropbolt does not activate when	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 5mm.				
	No voltage or low in voltage.	Make sure the output voltage and the current are large enough to pull in 0.9A current draw.				
	Low in voltage.	Make sure the output voltage and the current are large enough to pull in 0.9A current draw.				
The Dropbolt keep repeating the projecting motion.	The dropbolt is not locked correctly .	Adjust the positive centering door closer or door closer in order for the door frame to close in the correct position.				
		It is recommended to change the double acting door to the single acting door.				
The Dropholt will not retract	Strike Plate misaligned	Release or sway the door frame a bit when opening the door.				
		It is recommended to change the double actir door to the single acting door.				

Minimum Wire Gauge for 12 VDC	AMPS 0.25	25f 18	50f 18	75f 18	100f 18	150f 18	200f 16	250f 16	300f 14	400f 14	500f 12	1000f
	0.50	18	18	18	16	16	14	12				
	0.75	18	18	16	14	12	12					
	1.00	18	16	14	14	12						
	1.50	18	14	12	12							
	2.00	16	14	12								
		0 <i>5</i> f	FOF	755	1005	1505	2005	250f	2005	400f	FOOF	10005
Minimum Wire Gauge for 24 VDC	AIVIF 3	201	301	701	1001	1501	2001	2001	3001	4001	3001	10001
	0.25	18	18	18	18	18	18	18	18	16	16	16
	0.50	18	18	18	18	18	16	16	14	14	12	
	0.75	18	18	18	18	16	14	14	12	12		
	1.00	18	18	16	16	14	14	12	12			
	1.50	18	18	16	14	14	12					
	2.00	16	16	14	14	12						