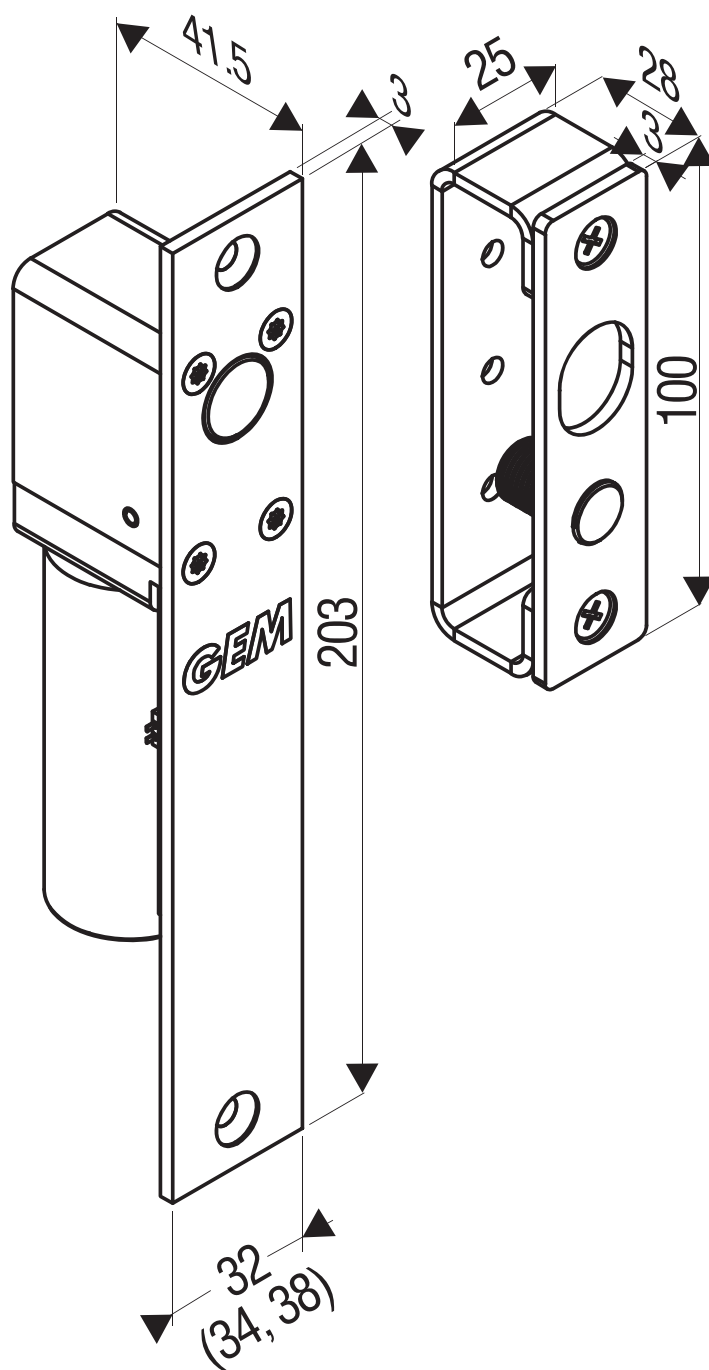


# Dimension

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## EB200NLW



All dimensions in mm

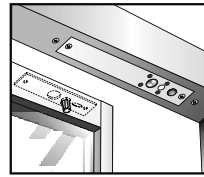
# Fail-Safe Electric Dropbolt Installation Instructions

## EB200NLW & EB300 Series

### Features

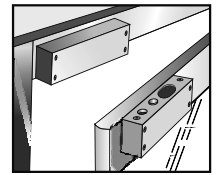
- Horizontal or vertical installation
- Available in mortise, surface and glass mount
- For double and single action doors
- Energy saving design
- Vandal resistant circuit design
- Door position status
- Reset output
- Relock time delay (Selectable from 1, 3, 6, 9 seconds)

#### Mortise Mount



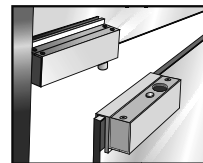
EB200NLW

#### Surface Mount



EB300

#### Glass Mount

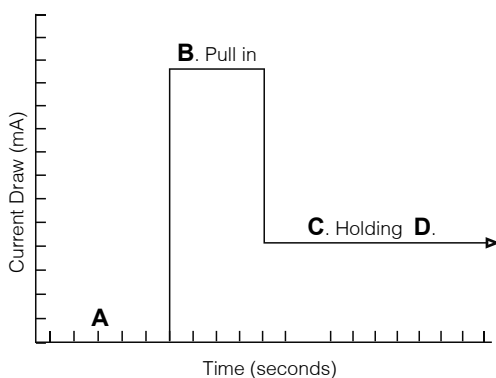


EB200NVGL  
EB300VGL

### Specifications

Models (Series)	EB200NLW	EB200NLW-38	EB200NVGL	EB300	EB300VGL
Mounting Style	Mortise Mount	Mortise Mount	Glass Mount	Surface Mount	Glass Mount
Dimensions (mm)	32 x 203 x 41.5	38 x 203 x 41.5	66 x 205 x 56	34.5 x 166 x 56	57 x 166 x 56
Mode	Fail-Safe				
Operating Voltage	12 VDC (Tolerance 10%)				
Current Draw	Pull in: 0.9A; Holding: 0.3A				
Reed Contact Rating	0.25A/30VDC				
Surface Temperature	Ambient Temperature +20°C				
Operating Temperature	-10°C~+49°C				
Humidity	0~85% non-condensing				
Relock time delay	1/ 3/ 6/ 9 seconds				
Solenoid Endurance Test	Over 500,000 cycles				
Faceplate Material	Aluminum alloy				

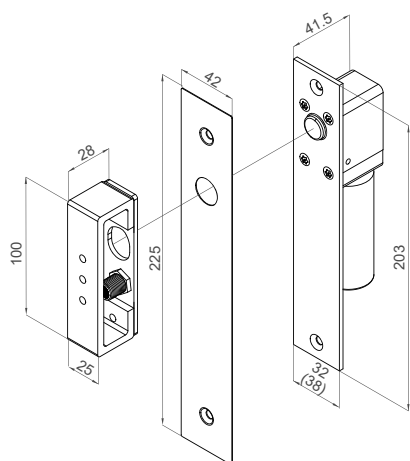
### Intelligent Electronics & Energy Saving Design



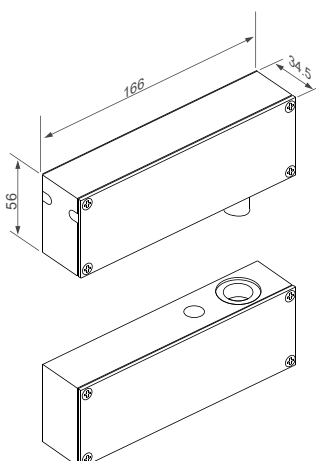
Under the energy saving design, after the dropbolt locks completely, the current draw will drop from 0.9A to 0.3A, continuing "holding force".

The reed sensor automatically disconnects once the bolt is completely locked to avoid unauthorized access attempts.

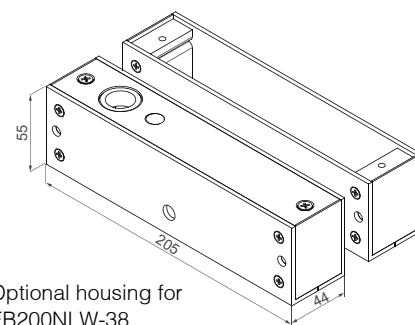
Unit:mm



**EB200NLW**  
(Mortise Mount)



**EB300**  
(Surface Mount)



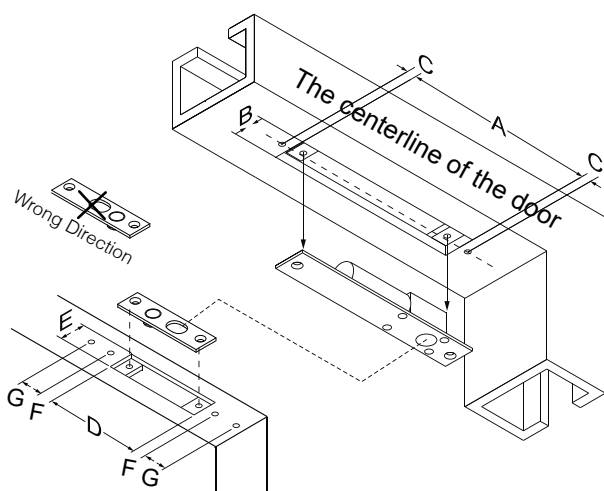
Optional housing for  
EB200NLW-38

**SMB-200N**  
(Surface Mount)

## Mortise Mount Installation (For Hollow Metal Doors)

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

	A	B	C	D	E	F	G
<b>EB200NLW</b>	<b>204</b>	<b>33(or39)</b>	<b>15</b>	<b>101</b>	<b>25</b>	<b>15</b>	<b>25</b>



**\*Please follow the instructions below before cutting the hole:**

1. Check if the bolt and the bolt hole are aligned.
2. Check if the magnet and the reed switch are aligned.

## Installation Instructions

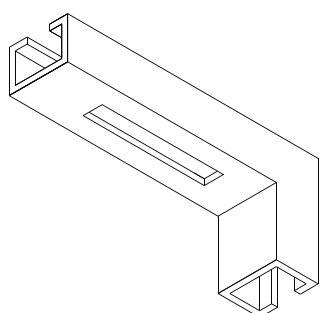
Ensure that the door frame can accommodate the lock body. Also check if it is possible to place the wires inside the door frame.

Ensure that the double action door swings back to the correct position so the dropbolt can lock up immediately.

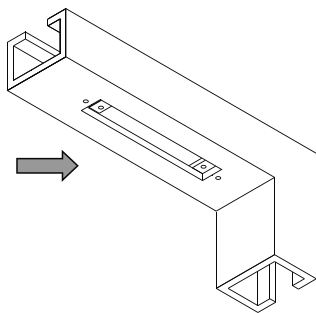
Check if the regulated power supply or controller provides the correct current draw (Pull-in current: 0.9A/12VDC, holding current: 0.3A/12VDC).

## Warning:

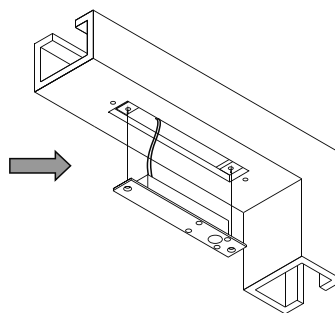
1. The connection of an incorrect voltage may result in damage and is not covered by the product warranty.
2. Select an appropriate wire gauge to ensure sufficient power for the lock to operate.
3. DO NOT OIL OR LUBRICATE as this may cause damage to the internal electrics. This product is weather resistant under normal use and does not require maintenance.
4. This product must be used in conjunction with a quality floor spring or door closer to ensure positive realignment on closing.



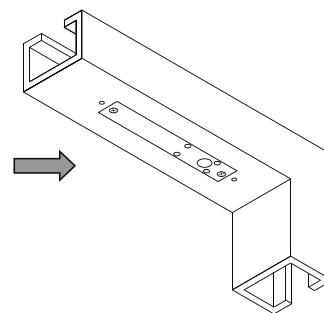
Mortise cutout in tube



Attach fixing lugs



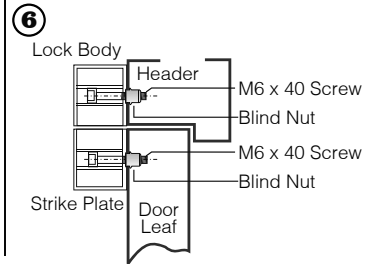
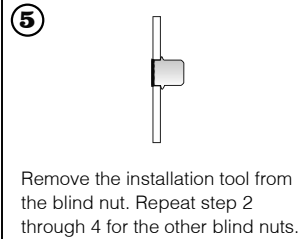
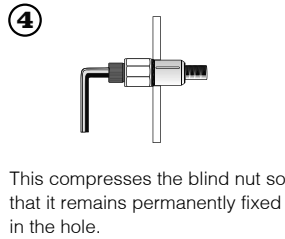
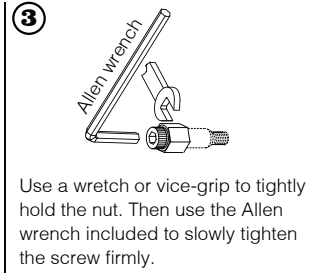
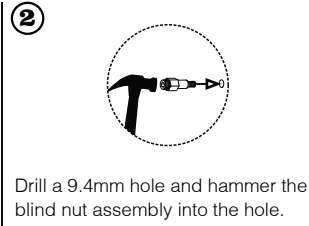
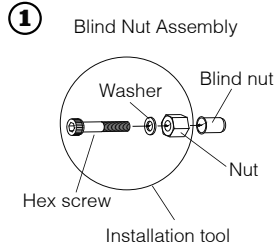
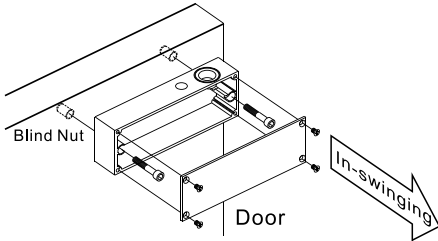
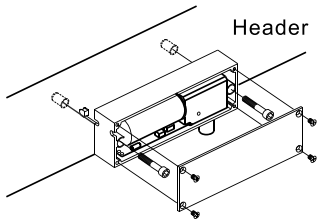
Connect the power



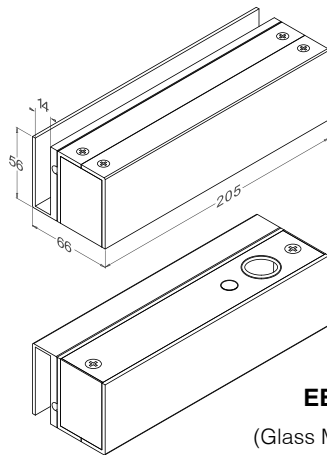
Assemble the lock and test it

## Surface Mount Installation (EB300)

### Installing Blind Nuts

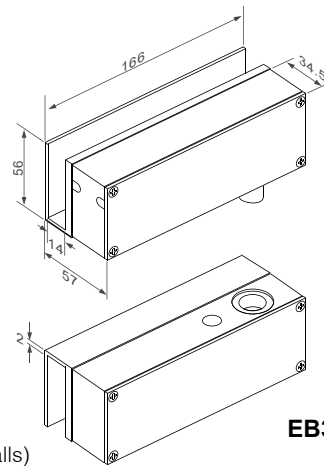


## Glass Mount Models



**EB200NVGL**

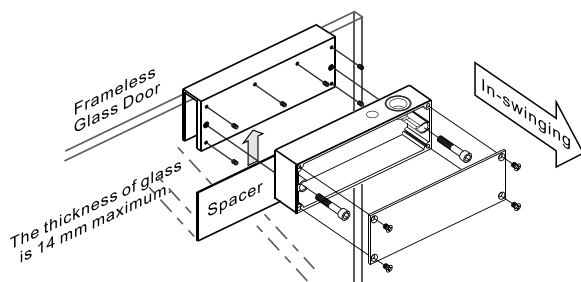
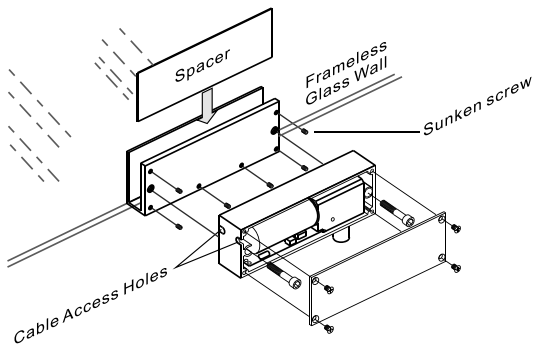
(Glass Mount - For full frameless glass doors & walls)



**EB300VGL**

Unit: mm

## Glass Mount Installation (EB200NVGL & EB300VGL)

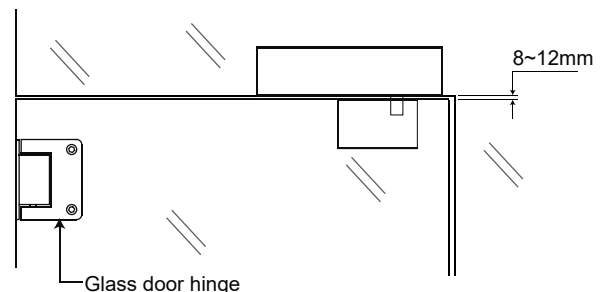


### Installation Instructions

1. Determine where the electric dropbolt will be installed and clean the surface of the glasses.
2. Take off the sticker on the back side of the spacer and attach the spacer(s) to the glass. The U shape VGL bracket is 14mm in width and the spacer is 1mm in thickness. Add more spacers if needed per thickness of the glass. Use silicone sealant or other adhesives to secure the VGL bracket firmly.
3. Tighten the set screws with an Allen wrench, secure the dropbolt to the glass bracket, and then install the cover.

### Caution:

1. It is recommended to attach the spacers to the interior/secured side of the door.
2. Tighten the set screws firmly but do not overtighten to cause damage to the glass.
3. Thickness of the glass should be 10~13 mm. The position of strike plate and dropbolt should be adjusted to narrow the door gap to within a range of 8~12 mm.



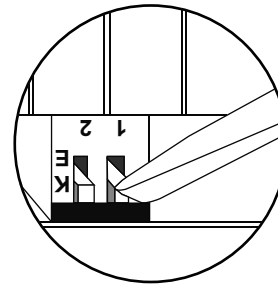
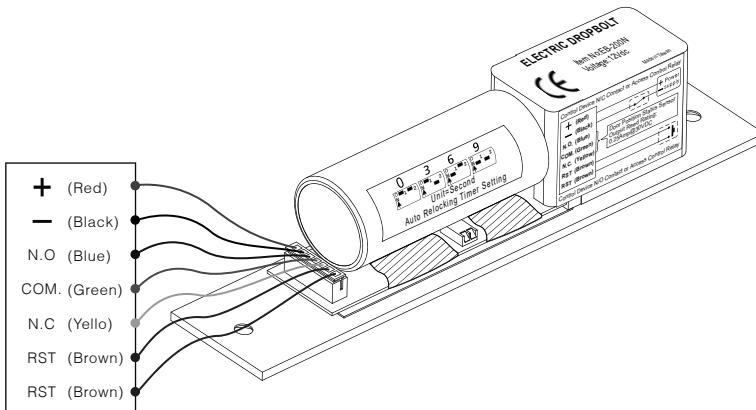
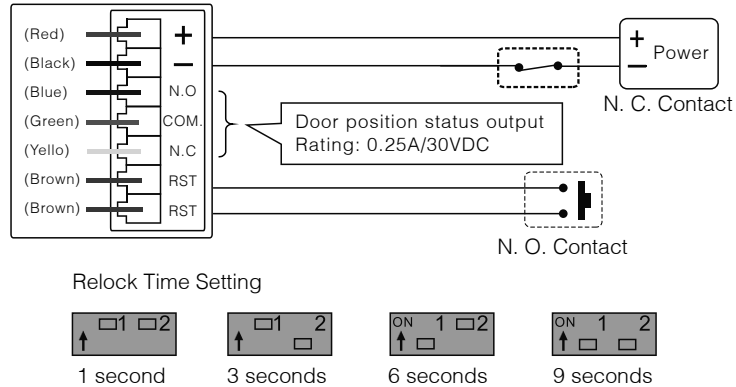
## Wiring Diagrams

### 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.

### EB200NLW & EB300 Series

After activated RST and RST, the door opens automatically.

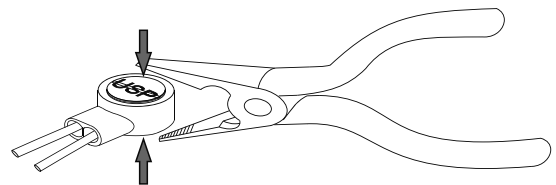


We recommend using a flathead screwdriver to adjust the relock time setting.

### Installing the Crimp Connectors:

Crimp connectors are provided to make wiring connections easier and more reliable. To install the connectors:

1. Insert the wires into the connector.
2. Use a crimping tool or pliers to evenly press down on the head of the connector.



### Troubleshooting

Problem	Possible Cause	Solution
Dropbolt is not activated when the door is closed	The gap between the strike plate and the dropbolt is too large	Narrow the gap between the reed switch and magnet to less than 5 mm.
	Low voltage /current	Check the output voltage and the current draw. (Pull-in current: 0.9A/12VDC)
Bolt keeps projecting	Low voltage/current	Check the output voltage and the current draw. (Pull-in current: 0.9A/12VDC)
	Dropbolt is not locked properly	Adjust the door closer or the door hinge so that the door is closed in the correct position. Change the door swing to single action if the hinge cannot be adjusted.
Bolt cannot retract	Strike plate is misaligned	Move or sway the door to release the bolt to open the door.
		Change the door swing to single action if the hinge cannot be adjusted.