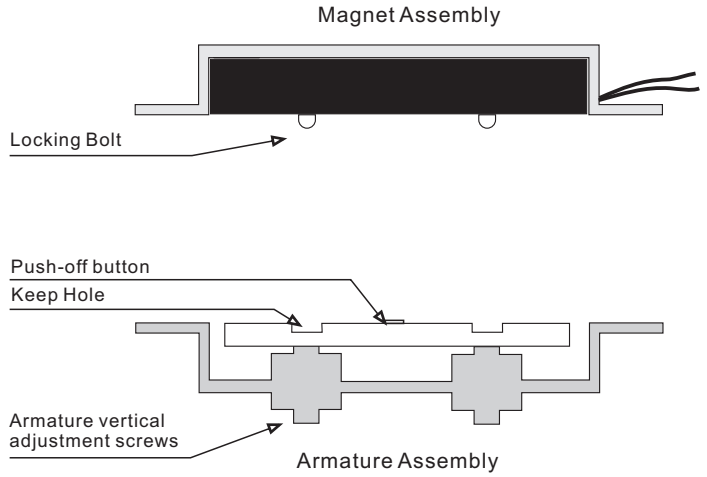


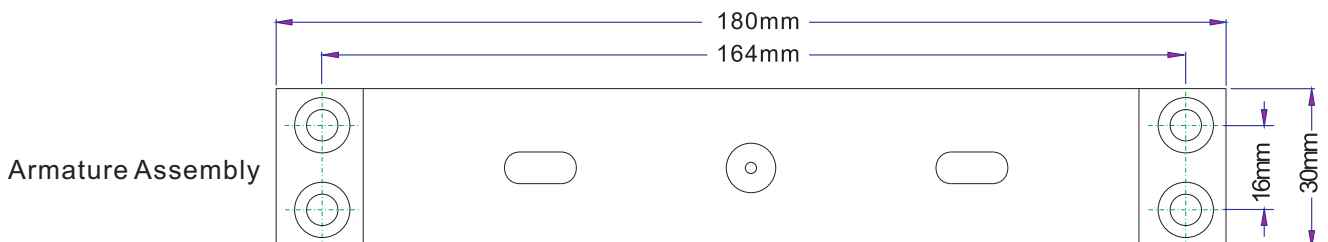
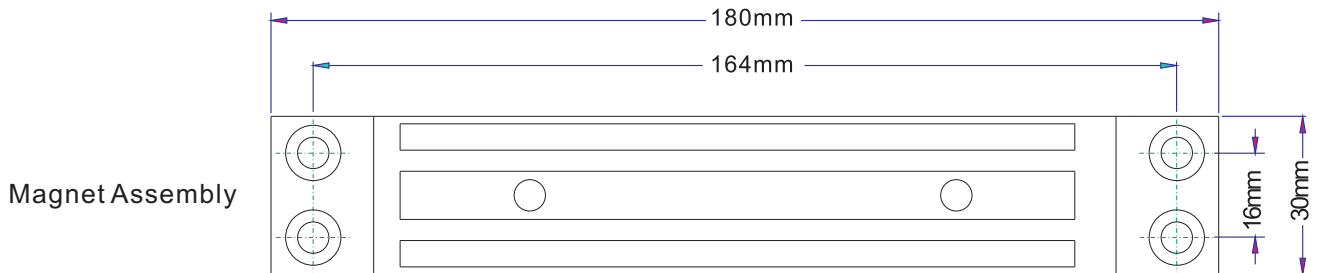
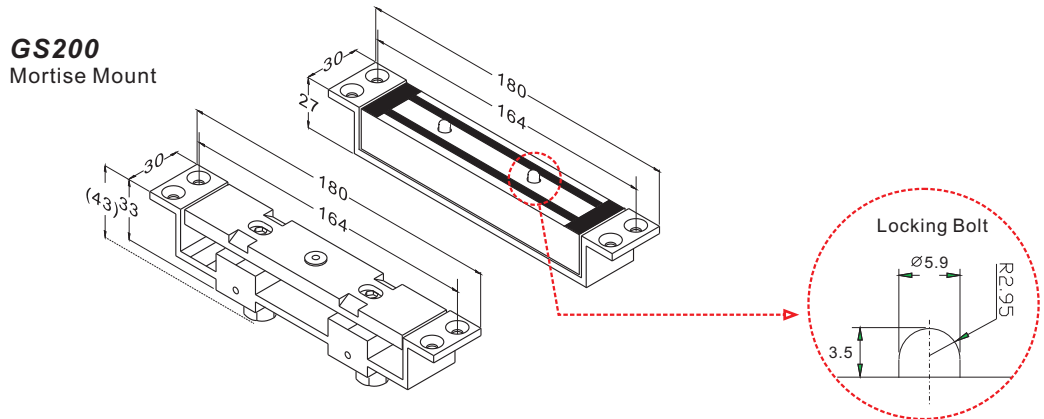
# GS200 Mini Shear Lock Installation Instruction

## Specifications

Shear Holding Force	Up to 1200 lbs (545 Kg)
Operating Voltage	12/24 VDC
Current Draw	420mA/12VDC ; 210mA/24VDC
Finish	Magnet and Armature: Zinc plated
Monitoring Output	Magnet bond sensor output SPDT rating 0.5A/125VAC; 1A/24VDC
Door Gap	2mm
Operating Temper	-30°C to +50°C



## Dimensions



## Important Notes

Make sure that the door and frame is wide and deep enough to install the shear lock. Make sure the central lines on the door frame and door leaf align. Install the magnet into the door frame before installing the armature assembly into the door leaf.

Before installation, make sure the door always return to the dead center after it is opened, especially double-action doors. Use door hinges if necessary.

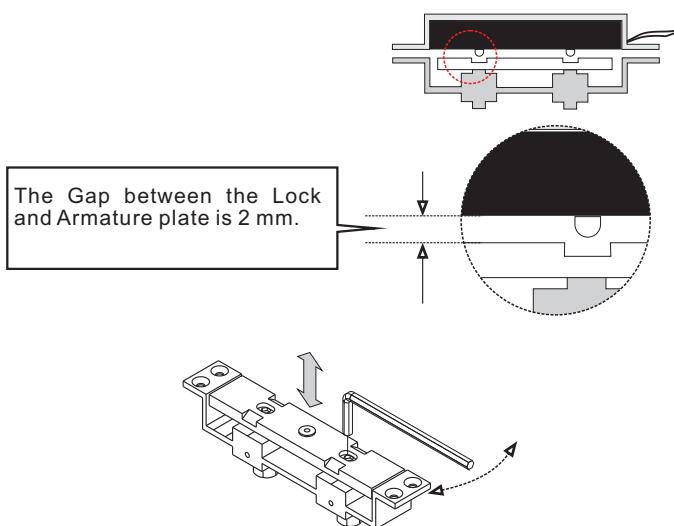
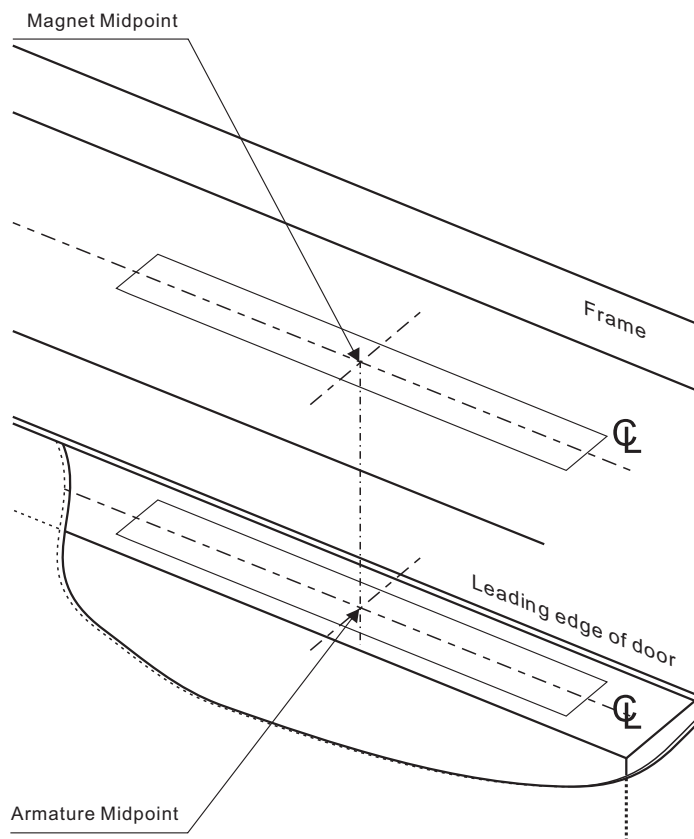
## Mortise Mount

1. Make sure the gap between the door top rail and frame header is 2 mm.
2. Mark the central lines on the door and frame where the magnet and armature assembly will be installed.
3. Attach the templates to the door and frame.
4. Cut and drill holes where the templates indicate. Connect the wires. Install the shear lock and armature assembly towards the leading edge of the door.
5. Connect to the power and check the unit.

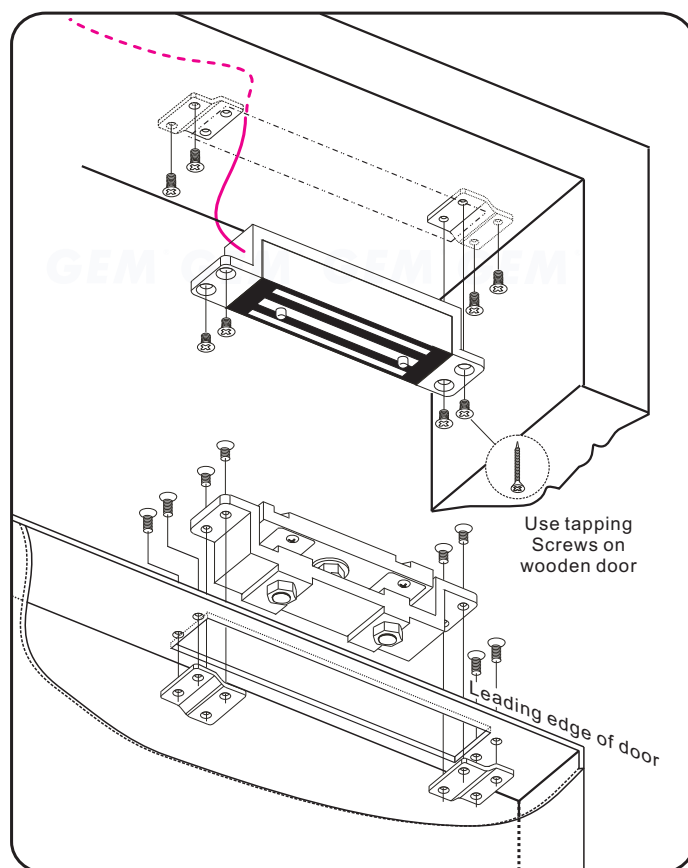
A. For proper operation, the armature assembly must be close and parallel to the shear lock, without interfering with opening and closing of the door. Keep a distance of 2 mm between the armature assembly and the magnet.

B. If the lock bolt attracts the armature assembly when the door is not in position, please adjust the door operator and floor hinges.

C. If there is no bond sensor output, please remove secondary diode installed across the magnet. Also adjust the surfaces of the shear lock and the armature assembly.

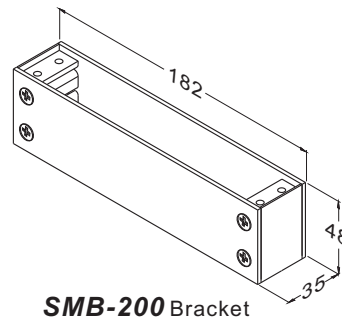


Proper operation cannot be expected with more than 2 mm gap between the armature and the magnet. Use the allen wrench provided to adjust the screws of the armature.

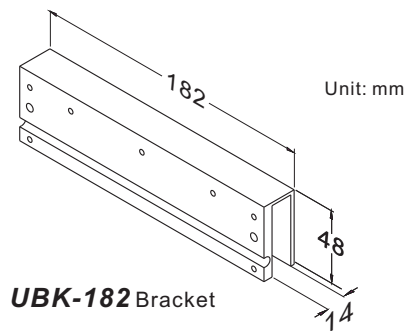


## Optional Bracket

The unit may be surface mounted or semi-surface mounted with the use of the SMB-200 Bracket. The magnet can be fitted to glass doors with UBK-182 bracket. It is vital that a minimum gap of 2mm exists between the magnet and the armature plate to allow correct operation.



SMB-200 Bracket

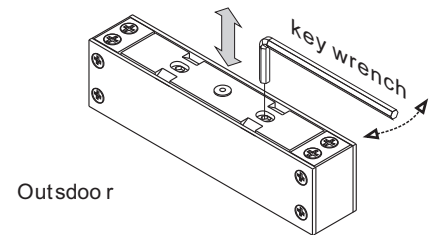
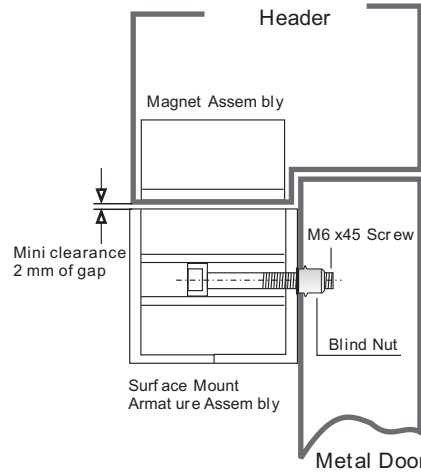


UBK-182 Bracket

Unit: mm

## Semi-Surface Installation

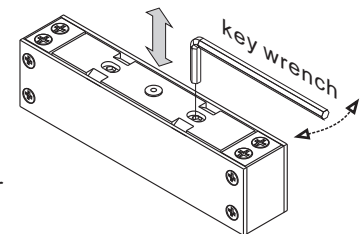
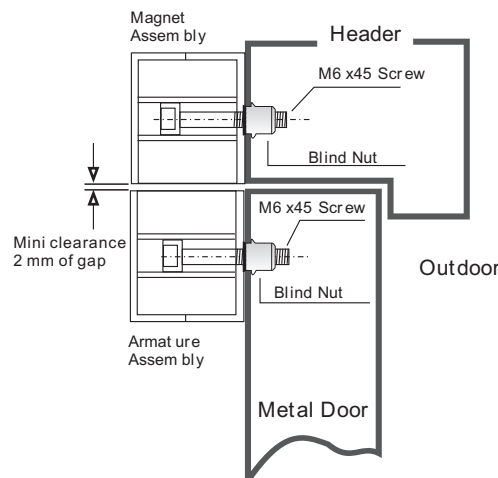
The **GS200** may also be fitted semi-surface with the use of the SMB-200 Bracket. The magnet should be fitted to the door transom and the housing holds the armature plate on to the door. It is vital that a minimum gap of 2mm exists between the magnet and the armature plate to allow correct operation.



Using supplied wrench to adjust armature plate to approx. 2 mm of gap between magnet surface.

## Surface Installation

The **GS200** may also be fitted surface mounted using 2pcs of the SMB-200 Bracket. The housing of the magnet should be fitted above the door transom and the housing of the armature plate on to the door. It is vital that a minimum gap of 2mm exists between the magnet and the armature plate to allow correct operation.

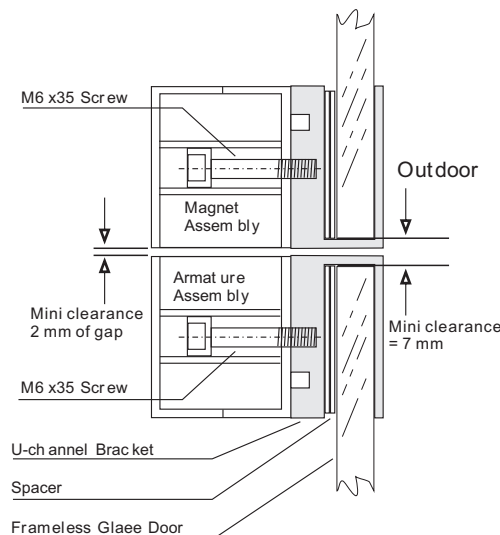


Using supplied wrench to adjust armature plate to approx. 2 mm of gap between magnet surface.

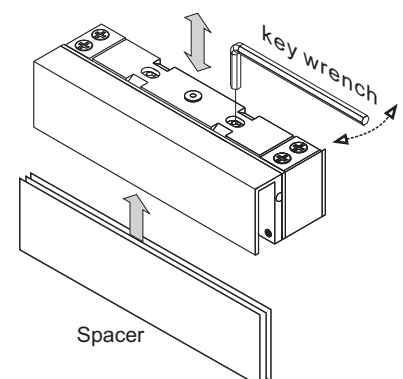
## Installation on Frameless Glass Door

The **GS200** may also be fitted to a full glass door and glass frame, using 2pcs of the **SMB-200** Bracket and 2pcs of the **UBK-182** mounting brackets. (The thickness of glass is 13 mm maximum.) The housing holding the magnet should be clapped above the door transom and the housing holding the armature clapped on to the door.

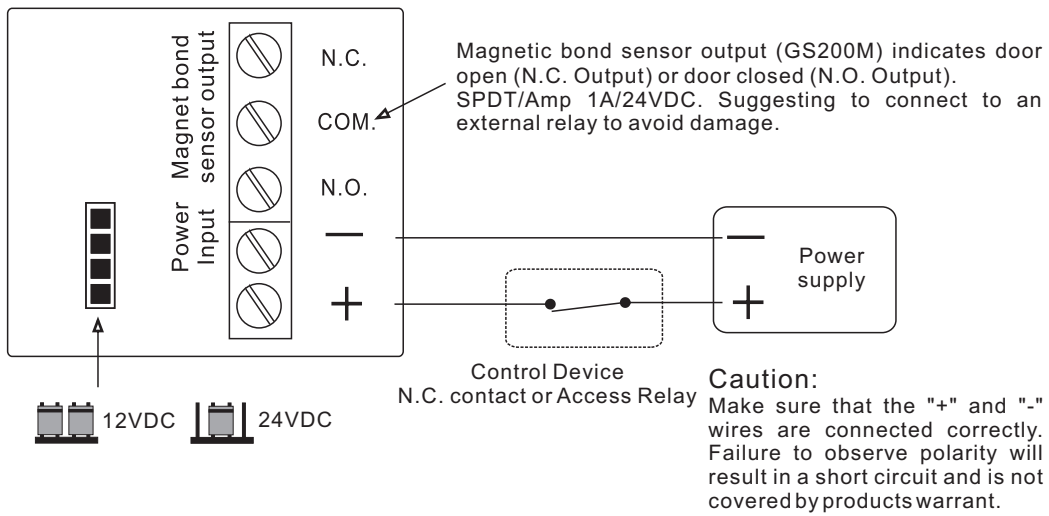
It is vital that a minimum gap of 2mm exists between the magnet and the armature plate, to allow for correct operation.



Using supplied wrench to adjust armature plate to approx. 2 mm of gap between magnet surface.

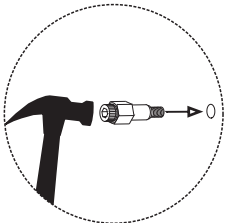


## Wiring Diagram

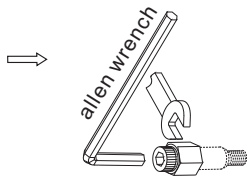


## Blind Nut Installation

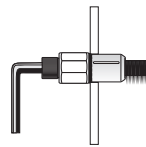
Drill 9.4mm holes for M6 Blind Nuts.  
Drill 7mm holes for M5 Blind Nuts.



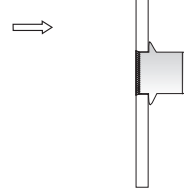
Insert two Blind Nuts into separate holes, one for each fixing screw.



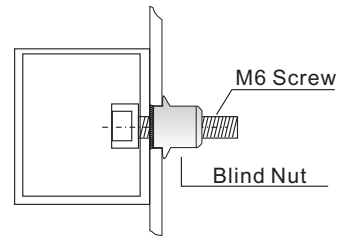
Use the allen wrench. To slowly tighten the Blind Nut. (Don't be too tight)



The Blind Nut is turned tight so that it remains permanently fixed in the door frame.

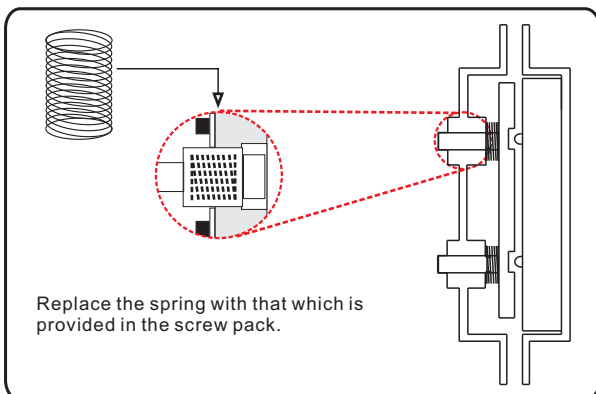


Remove the tool.



Use M6 Screws to fix SMB-001 brackets.

## For Vertical Installation



### Vertical Installation

