

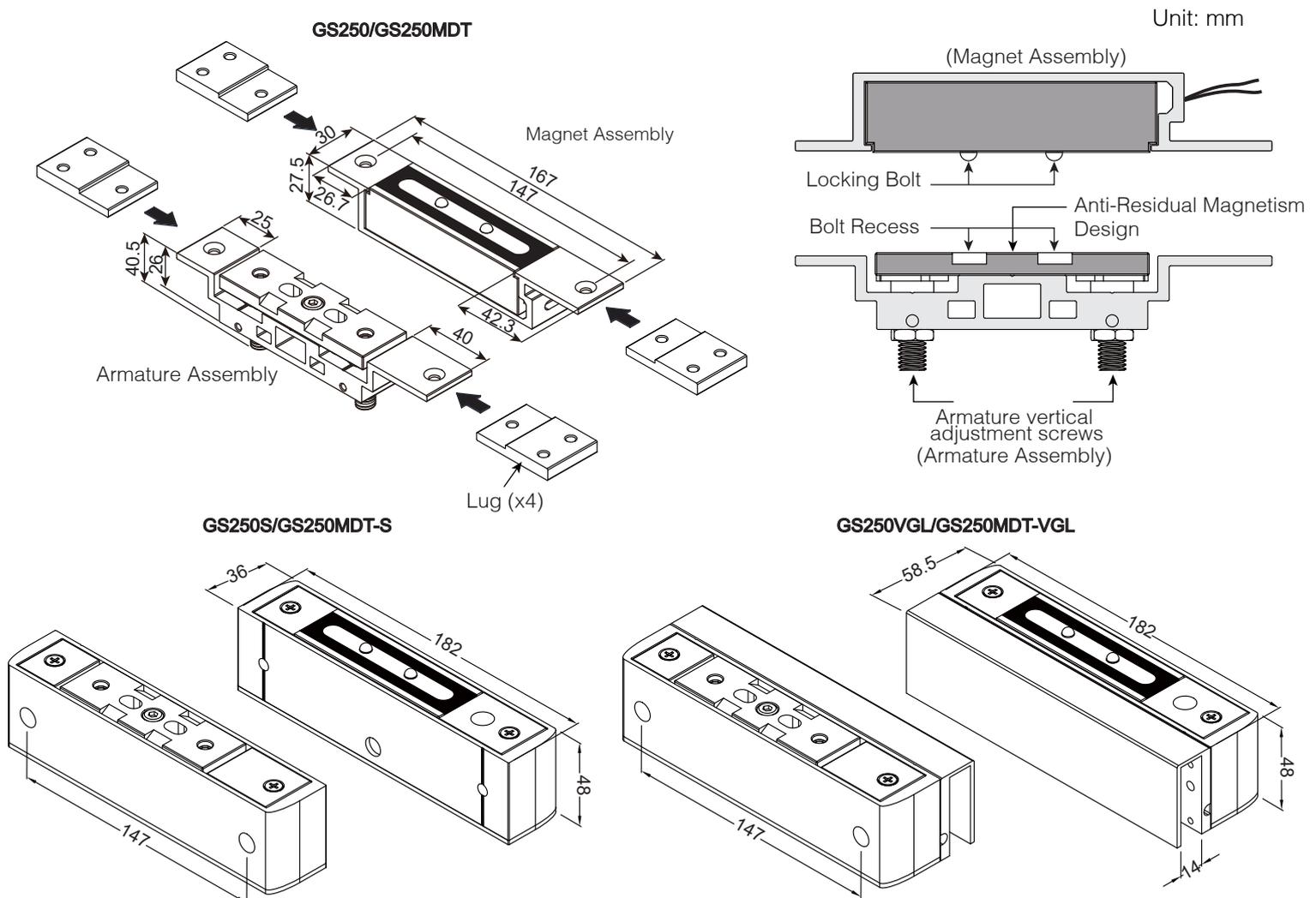
Mini Shear Lock Installation Instruction (Indoor Series)

GS250 & GS250MDT Series

Technical Specification

Models	GS250	GS250MDT	GS250S	GS250MDT-S	GS250VGL	GS250MDT-VGL
Time Delay (2 seconds)	-	●	-	●	-	●
Bond Sensor	-	●	-	●	-	●
Mode	Fail-Safe					
Holding Force	1200 lbs					
Operating Voltage	12/24VDC	12-24VDC (self-regulating)	12/24VDC	12-24VDC (self-regulating)	12/24VDC	12-24VDC (self-regulating)
Current Draw	500mA/12VDC ; 250mA/24VDC					
Operating Temperature	32° to +120.2°F (0° to +49°C)					
Surface Temperature	≤ Current temperature +20 °C					
Humidity	0 to 85% Non condensing					
Door Gap	1/16" (2mm)					
Finish	Magnet and Armature: Zinc plated					
Mounting	Standard		Surface Mount		Glass Door Mount	
Mounting Brackets	-		SMB-300		SMB-300 UBK-182	

Dimension & Accessories



Mortise Mount

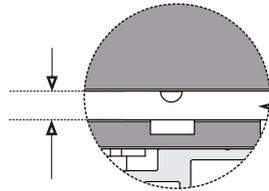
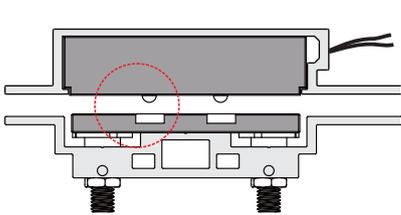
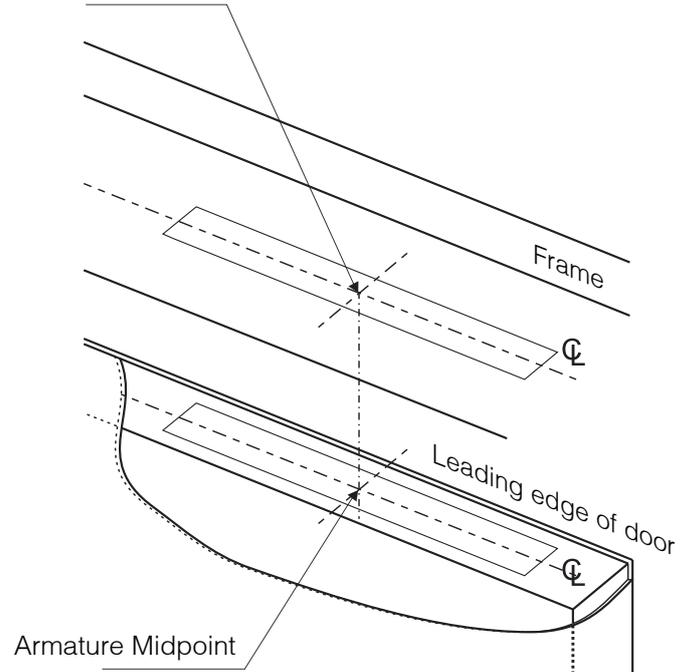
1. Make sure the gap between the door top rail and frame header is 2 mm.
2. Mark the central lines on the door and frame where the magnet and armature assembly will be installed.
3. Attach the templates to the door and frame.
4. Cut and drill holes where the templates indicate. Connect the wires. Install 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.

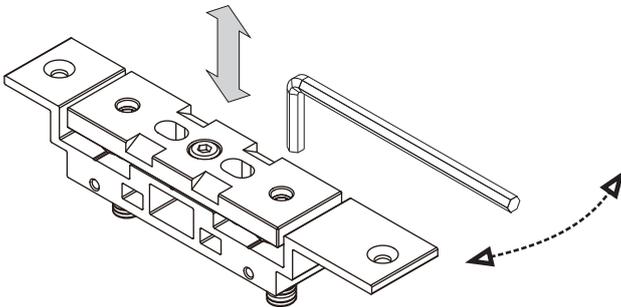
B. If the magnet attracts the armature assembly when the door is not in position, please adjust the door operator and floor hinges.

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Magnet Midpoint

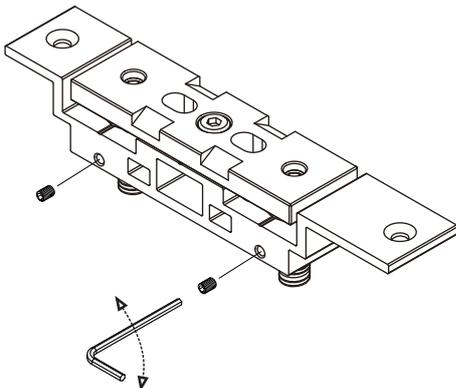


The gap between the lock and armature plate is 2 mm.

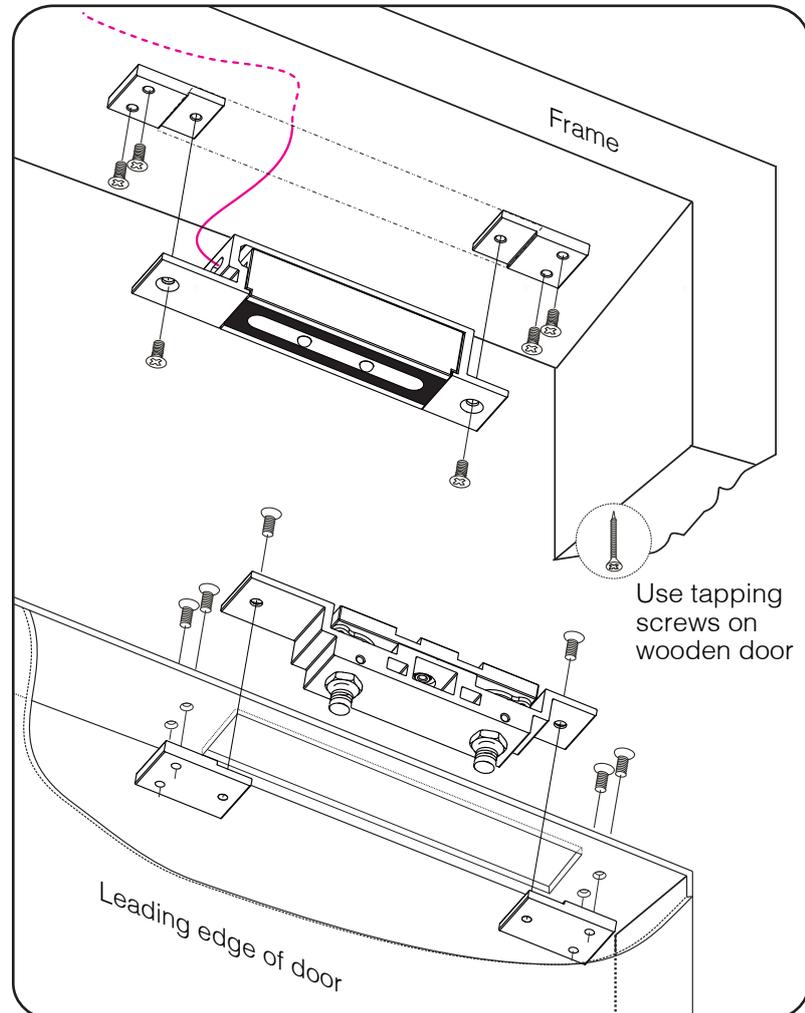


For proper operation please ensure the gap between the armature plate and the magnet is no more than 2 mm. Use the Allen wrench provided to adjust the armature to shorten or lengthen the gap.

Armature Plate Set Screws



Tighten the set screws with the Allen wrench provided once the armature plate has been adjusted for optimum door gap. This will firmly secure the armature plate and prevent it from becoming loose over time.

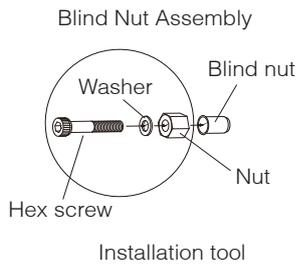


Use tapping screws on wooden door

Blind Nut Installation

For hollow metal frames, use blind nuts provided for reinforcement.

1

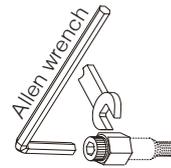


2



Drill a 9.4mm hole and hammer the blind nut assembly into the hole.

3



Use a wrench or vice-grip to tightly hold the nut. Then use the included Allen wrench to slowly tighten the screw until it does not turn any further.

4



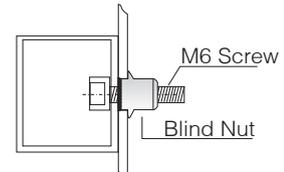
This compresses the blind nut so that it remains permanently fixed in the hole.

5



Remove the installation tool from the blind nut. Repeat step 2 through 4 for the other blind nuts.

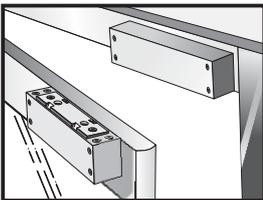
6



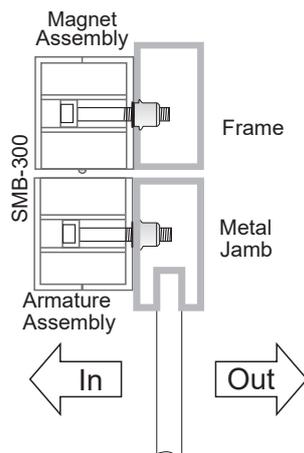
Use M6 screws to secure the SMB-300 brackets.

Surface Mount

Surface Mount

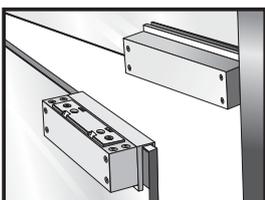


Double action metal door



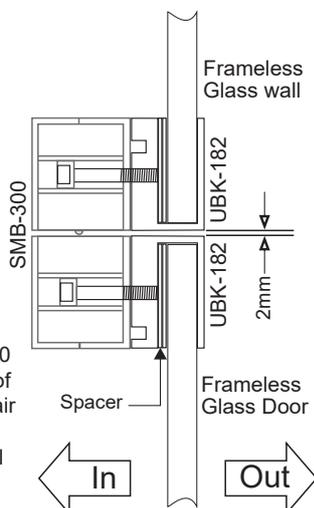
Glass Door Mount

Frameless Glass Door

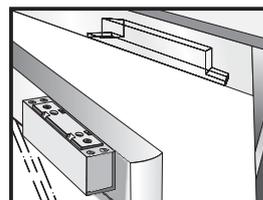


Double action glass door

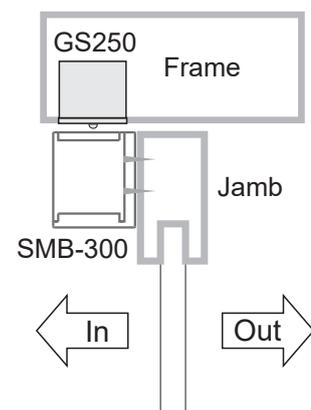
GS250VGL consists of GS250 shear lock, SMB-300 (a pair of housings) and UBK-182 (a pair of brackets). Suitable for full frameless glass door and wall of 10~13 mm thickness.



Semi-surface Mount

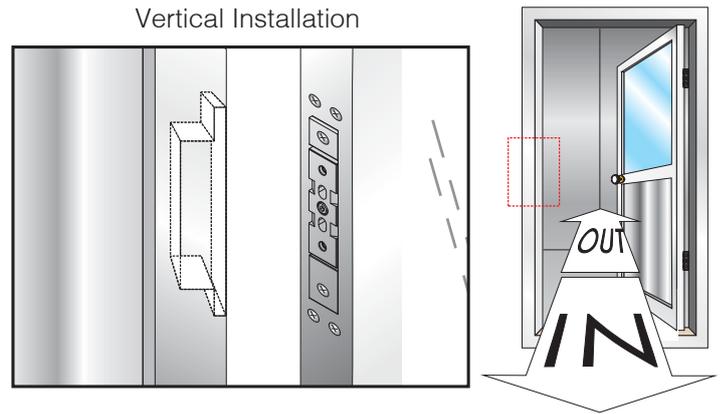
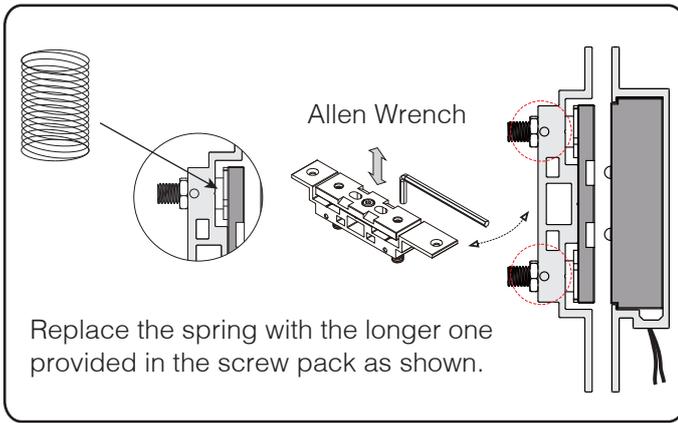


Double action glass door



For semi-flush mount, only one of the SMB-300 housing brackets is required (for the armature plate side). The magnet is mortised into the frame.

For Vertical Installation



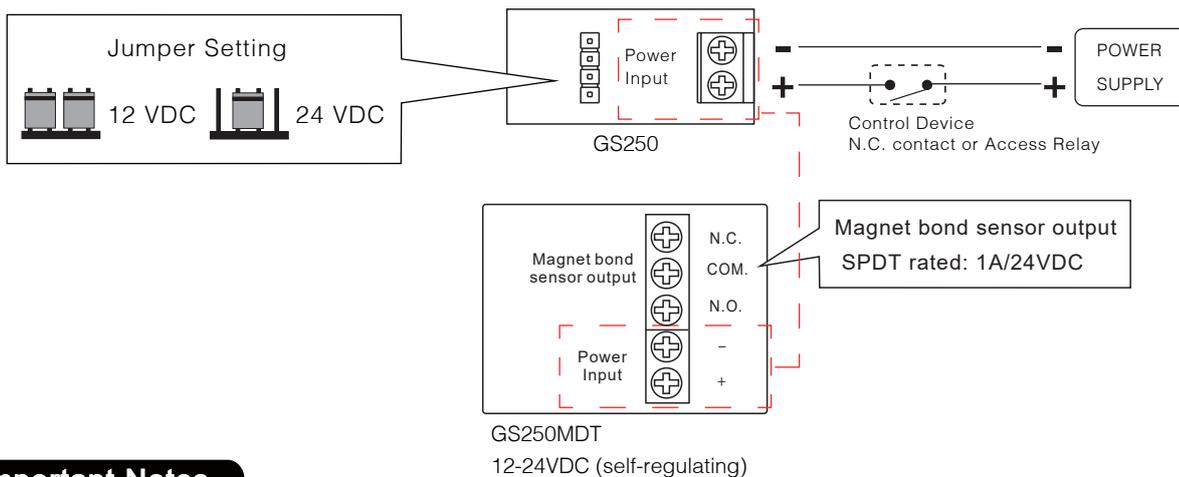
Connecting Diagram

Caution:

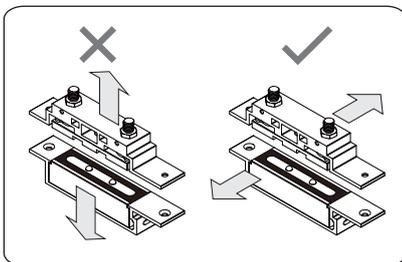
Make sure that the "+" and "-" wires are connected correctly. Please ensure the voltage selection (see Jumper Setting below) is correct for the power supply that is used. Failure to observe polarity and the correct voltage will result in damage to the product and is not covered by the warranty.

Power supply:

The product must be powered from a UL-listed regulated, power-limited, power supply. If power switch is not wired between DC source voltage(+) and magnet, it will take a longer time to de-energize the magnet simulating residual magnetism. The minimum permissible wire size to be used shall not be less than 22 AWG.

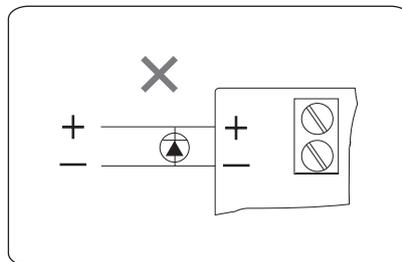


Important Notes



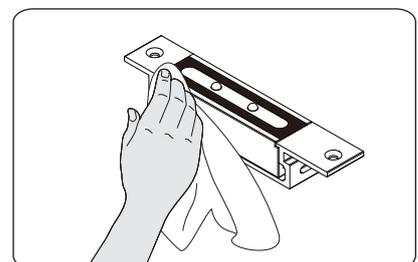
CAUTION

To lock the door, the shear lock must meet the armature plate in the direction shown above or the holding force will be greatly reduced.

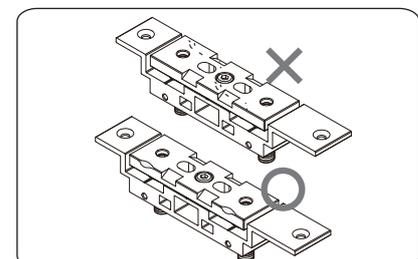


CAUTION

Remove any diode installed across the shear lock if using GS250MDT. The shear lock is fitted with a metal oxide varistor to prevent back EMF.



Wipe the surface of shear lock with anti-rust oil regularly.



Make sure the contact area of the shear lock and the armature plate is clean.