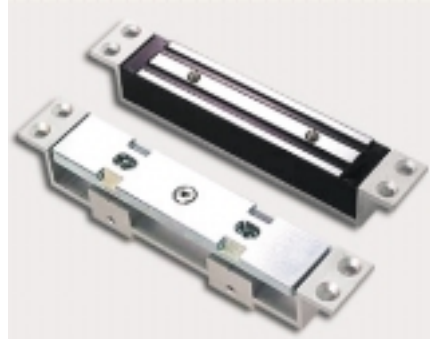


### Statement:

GEM Mini Shear Lock locks by seating two conical locking bolts located on opposite corners of the Armature Plate into matching keep holes on each end of the Electromagnet body. The GEM Shear Locks never bind under pressure, are not sensitive to door alignment, and do not require door position sensing or auxiliary timing circuitry. They are ideal for swing-through doors and sliding doors as well. A unique benefit of the GEM Shear Locks' physical design is that they function equally well on doors that swing to close or doors that slide to close.

The GS-200 series is available in two models, GS-200 Unmonitored or the GS-200M with hall effect monitoring. The units are shallow design for use with most metal door frame, may be fitted to either, timber, aluminium, or glass doors with the assistance of various housings. This manual gives a guide to all of the above applications and other useful installation information.

The GS-200 provide up to 1500 pounds shearing force and fully concealed mounting in aluminum, wood and steel doors, combine the best in failsafe performance with the most advanced features in shear lock design.



### Patent :

- 2003100306 (Australia)
- 219858 (Taiwan)
- 20306200.0 (Germany)
- 03245413.9 (China)

### Features:

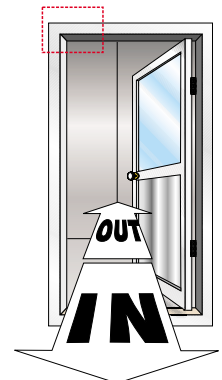
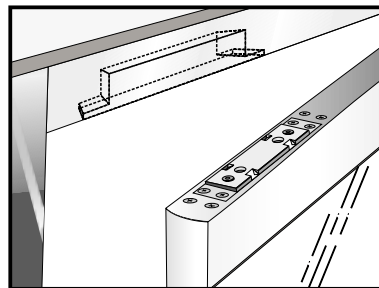
- Powerful shear force provides highly security.
- Compatible with double swinging doors.
- Special designed appearance can be easily fitted in to any buildings.
- Special Armature Plate track design enables the Shear Lock to bind and lock with Armature Plate more easily.
- With only 30mm width, the Lock and the Armature Plate can be mounted into average narrow door frames.
- Full range of optional brackets for any type of door frames
- Horizontal or vertical installation.
- Dual voltage 12 or 24 VDC (selectable) .
- Anti-Residual magnetism designed.

### Specifications:

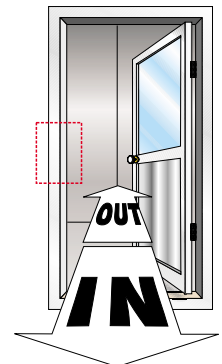
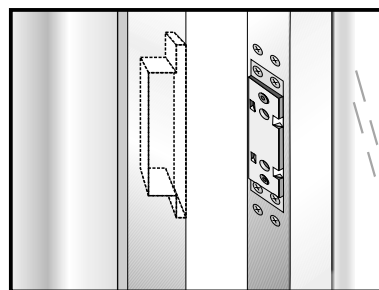
- Voltage Tolerance:  $\pm 10\%$
- Current Draw: 0.35 A@12 VDC; 0.19 A@24 VDC (at temperature 20°C)
- Magnetic bond sensor monitor output (GS-200M) (SPDT rated 3A@30VDC), indicates the door locked or unlocked status.
- Operating Temperature: -30~+55°C
- Humidity: 0~95% non-condensing.
- Lock's surface Temperature (when the power is on):  $\leq$  current temperature +20°C
- Holding Force: Up to 1500 lbs (680 Kg) in shear.
- The Gap between the Lock and Armature plate is 2 mm
- Special Finishes for magnet and armature plate: Zinc
- Epoxy Potting Compound: E87252 (S), UL94V-0
- Weight (Approx. ) : 1.2 Kg

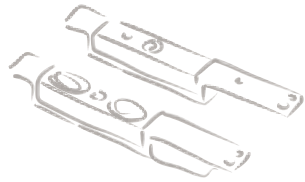
### Flush Installation

#### Horizontal Installation



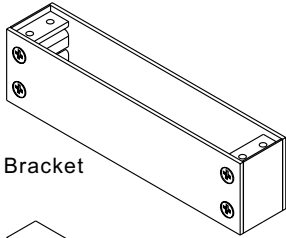
#### Vertical Installation



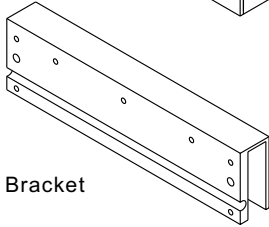


### Optional Brackets:

The unit may also be fitted semi-flush or surface installation with the use of the SMB-200 and UBK-182 Brackets. The magnet should be fitted to the door transom and the housing holding the armature on to the door. It is vital that a minimum gap of 2mm exists between the magnet and the armature, to allow correct operation.



**SMB-200** Bracket



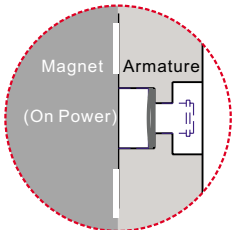
**UBK-182** Bracket

### Warranty:

GEM shear Locks are warranted against defects in material and workmanship while used in normal service for a period of 5 years from the date of sale to the original customer.

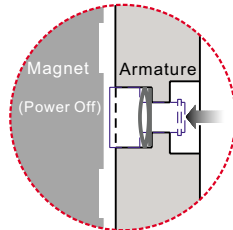
### Disclaimer:

The information and specifications printed in this manual are current at the time of publication. The GEM policy is one of continual development and improvement; therefore GEM reserves the right to change specifications without notice.

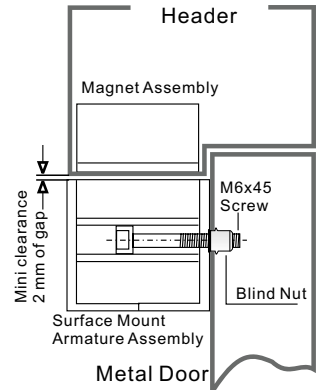
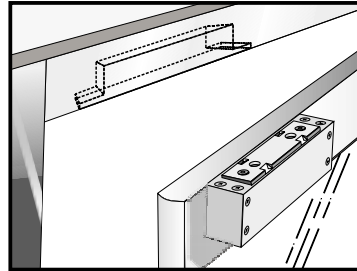


### Unique Anti-Residual design

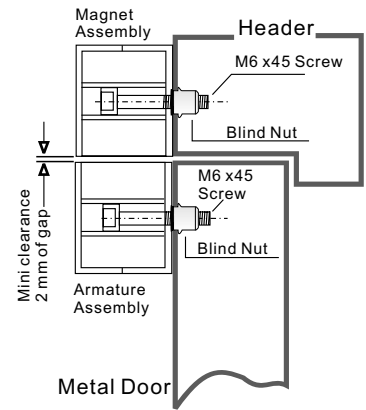
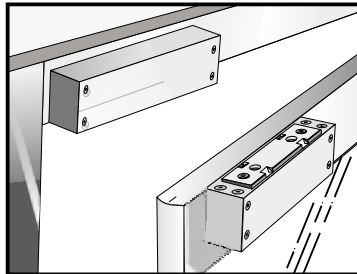
When there is no power, there will be no holding force, and the Push-off button inside the Armature Plate will pop out immediately to release the Electromagnetic Lock and the Armature Plate. The instant release circuit function will prevent residual magnetism between Electromagnetic Lock and the Armature Plate.



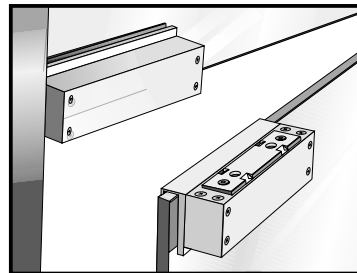
### Semi-Flush Installation



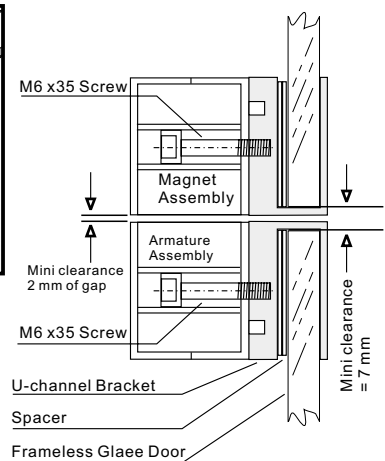
### Surface Installation

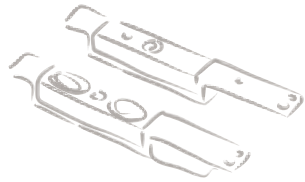


### Installation on Frameless Glass Door

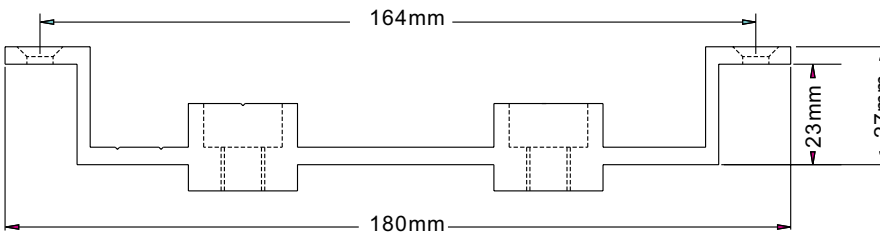
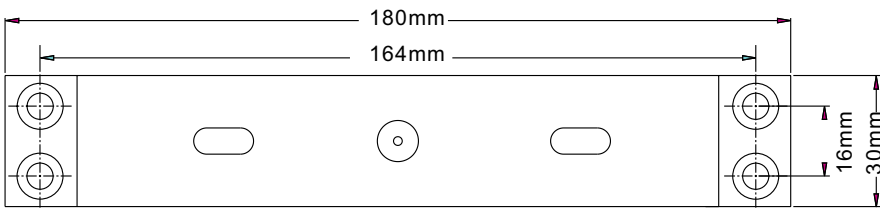
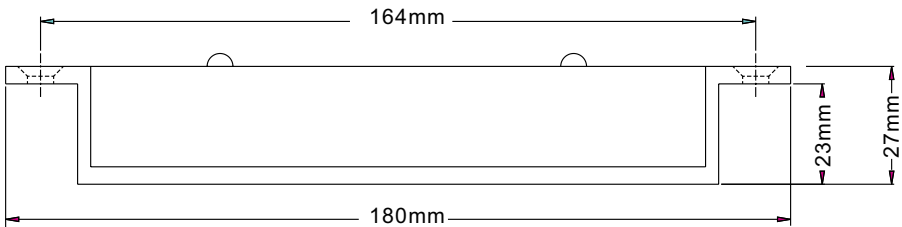
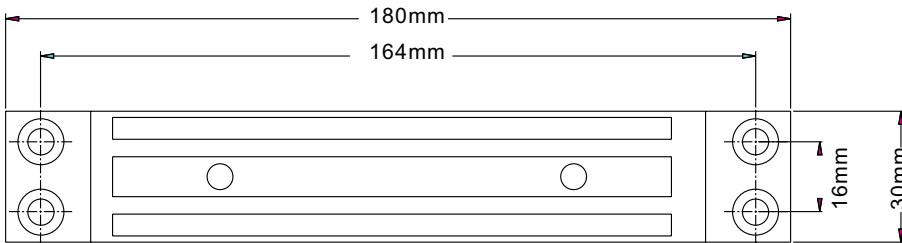
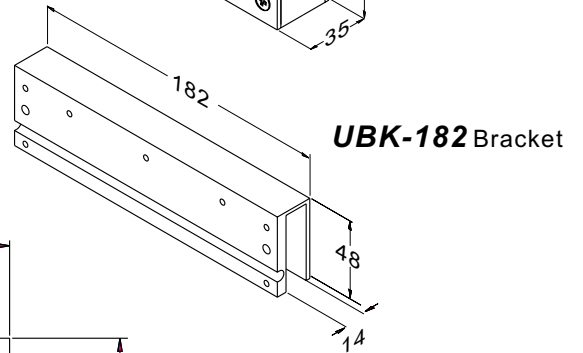
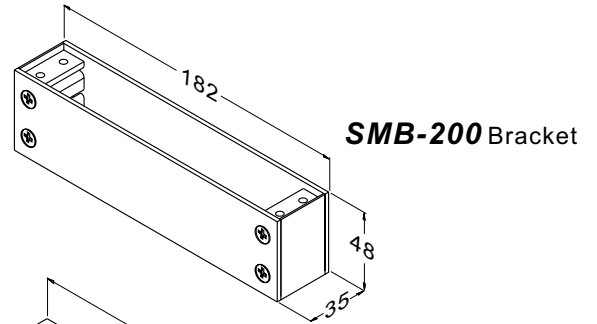
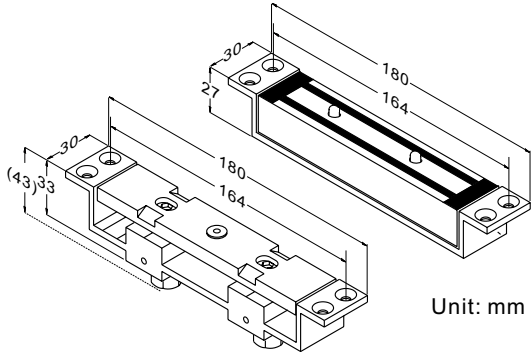


Using 2pcs of the **SMB-200** Bracket and 2pcs of the **UBK-182** mounting brackets. (The thickness of glass are 14 mm maximum.)





### Dimensions :



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The products are manufactured under an ISO 9001 Certified Quality Management Program environment back its product quality, performance and commitment to customer satisfaction.