

# Shear Locks

## Shear Aligning Electromagnetic Lock

### Hidden Strength at Any Angle

### with Its Flexible Mounting Options Solutions



GS200

GS705

GS705N

GEM shear locks offer totally concealed mechanism and are designed for applications where the door swings up to a 180 degree. When the shear lock detects the door in the closed position, the magnet “sucks” the armature plate up and traps the armature plate in the lock frame. Generally a 2 -3 mm gap between the top of the door and the frame is optimum for the electromagnet to attract the armature plate and keep the door locked.

The built-in bond sensor indicates proper armature contact, and eliminates potential lock misalignment before the magnet is permitted to energize.

### Standard Features

- Suitable for narrow frames, double swing doors and glass doors
- Fail-safe
- Horizontal or vertical installation
- Surface /Mortise/Semi-Mortise mounted
- Bond sensor indicates door is locked or unlocked (GS200 is available with optional bond sensor)













### Optional Features

- Mounting brackets available for easy installation (For GS200, GS705-35)

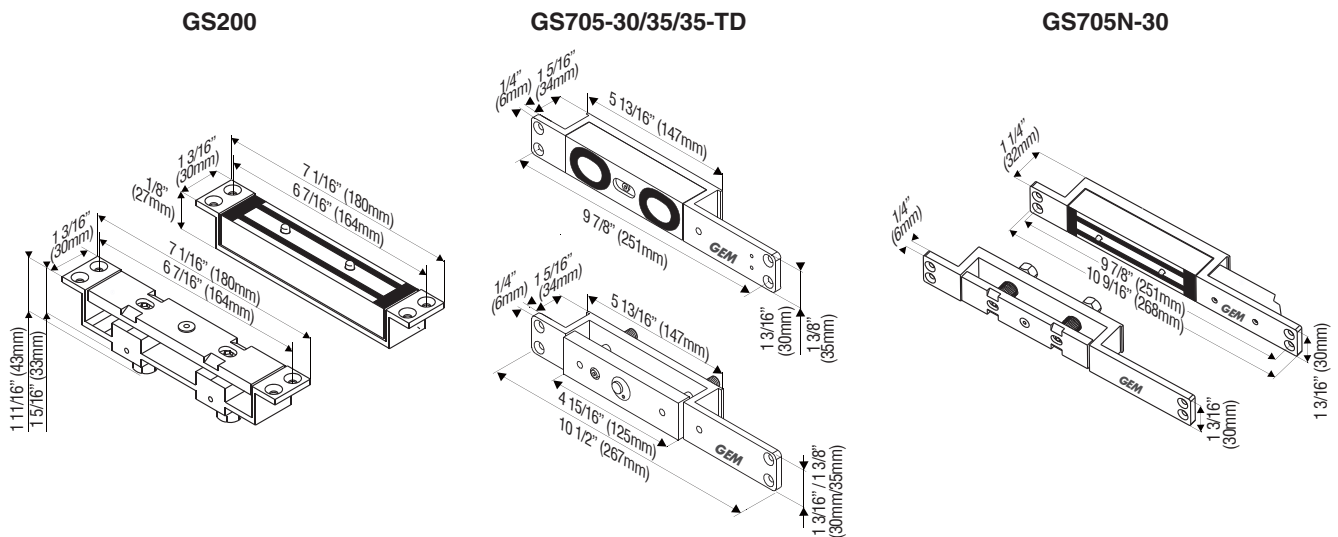
### Patents, Approvals, and Listings

- UL listed: BP9692 (GS200, GS200M)
- CE : EC3D0909-02

## Shear Locks

| Models  | Voltage (VDC) | Bond Sensor | Holding Force (lbs.) | Relock Time Delay             | Door Gap    | Mount                          | Mounting Brackets  |
|---|---------------|-------------|----------------------|-------------------------------|-------------|--------------------------------|--------------------|
| GS200       | 12/24         | —           | 1200                 | —                             | 1/16" (2mm) | Mortise, Semi-Mortise, Surface | SMB-200 (Optional) |
| GS200M      | 12/24         | ●           | 1200                 | —                             | 1/16" (2mm) | Mortise, Semi-Mortise, Surface | SMB-200 (Optional) |
| GS200VGL    | 12/24         | —           | 1200                 | —                             | 1/16" (2mm) | Surface                        | SMB-200<br>UBK-182 |
| GS200MVGL   | 12/24         | ●           | 1200                 | —                             | 1/16" (2mm) | Surface                        | SMB-200<br>UBK-182 |
| GS705-30   | 12 to 24      | ●           | 2000                 | 1~6 sec.<br>(Default 3 sec.)  | 1/8" (3mm)  | Mortise                        | —                  |
| GS705-35   | 12 to 24      | ●           | 2200                 | 1~6 sec.<br>(Default 3 sec.)  | 1/8" (3mm)  | Surface, Mortise, Semi-Mortise | SMB-001 (Optional) |
| GS705-35TD   | 12 to 24      | ●           | 2200                 | 1~15 sec.<br>(Default 3 sec.) | 1/8" (3mm)  | Surface, Mortise, Semi-Mortise | SMB-001 (Optional) |
| GS705N-30    | 12/24         | ●           | 1200                 | —                             | 1/16" (2mm) | Mortise                        | —                  |

## Dimensions



## Surface Mount Models & Mounting Brackets

Glass thickness: 3/8"~1/2" (10~12mm)

| GS200S/GS200MS   | GS200VGL/200MVGL<br>(For Glass Doors and Walls)   | SMB-001   |
|--|---|---|
| GS200 + SMB-200 bracket<br> | GS200 + SMB-200 bracket +<br>UBK-182 bracket<br> | Optional mounting brackets<br>for GS705-35/ 35TD<br> |

### Warranty

The product is 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. The GEM policy is one of continual development and improvement; therefore GEM reserves the right to change specifications without notice.