GF3000 Mortise Mounted Series Shear Locks

Special Application Solution

Schlage Locknetics provides the most complete selection of electromagnetic locks in the industry. The GF3000 Series Shear Lock features a patented design offering advances over any Shear Lock on the market.

Unique mounting features provide a “floating” action of both the lock assembly and the armature. This design allows the magnet assembly to move towards the armature during the locking process. In this manner, the GF3000 is able to overcome gaps of up to 1/4 inch without current inrush. Once engaged, the Shear Lock provides 3000 pounds holding force, without high operating temperatures normally associated with other Shear Locks. A microprocessor-based control module provides advanced electronic features. This circuitry automatically senses and adjusts input voltage, allowing for operation from 12 to 24 volt DC power sources.

The mortise Shear Lock offers the advantage of a totally concealed locking mechanism, providing superior security and appearance. The patented design incorporates locking “tabs” on the magnet assembly with mating grooves in the armature plate. While the strength afforded by this design is a major advantage, the flexible mounting features are as important. This design allows for normal door and frame movement.

The Shear Lock is ideally suited for commercial grade quality hollow metal doors and frames as well as herculite doors with top rail. Advances in design provide low operating temperatures, making this Shear Lock suitable for use in the growing demand for concealed locks in wood frames.

The GF3000 TRD Model is available when armature adjustment is required from the edge of the door due to flush ceiling conditions. The GF3000BRD model is available when no top rail mounting is available.

All models offer built-in automatic relock features ensuring full door closure before lock engagement. Relock time delay is easily adjusted from 1 to 30 seconds from the face of the installed lock. Optional features include Magnetic Bond Sensor (MBS) to monitor the secure/not secure condition of the lock and an optional Door Status Monitor (DSM) to sense the open/closed position of the door.

The GF3000 Series of Shear Locks are UL 10C, CUL, CSFM and MEA listed for use on fire labeled openings. The locks are engineered to meet ANSI/BHMA A156.23 standard for electromagnetic locks.

Benefits of Using GF3000 Mortise Mounted Series Shear Locks

- Automatic voltage selection 12/24 VDC (Filtered)
- Innovative gravity force design provides for movement of both lock and armature to overcome gaps of up to 1/4”
- 3000 lbs. of holding force
- Requires filtered, regulated power supply
- Built-in Automatic Relock Switch
- Adjustable time delay on relock, 0-30 seconds
- Low temperature operation
- Microprocessor controlled
- Optional Magnetic Bond Sensor (MBS)
- Optional Door Status Monitor (DSM)
GF3000 Mortise Mounted Series Shear Locks

Special Application Solution

How to Order GF3000 Mortise Mount Series

GF3000TRD – DSM/MBS

Select Model
Select Option

1. Select Model
   GF3000
   Adjustable from top edge of door.
   GF3000TRD
   Mounting assembly which provides armature adjustable from the latch edge of the door. Recommended with zero clearance condition between top of door and ceiling.
   GF3000BRD
   Mounting assembly to mortise armature into bottom rail of door. Magnet is installed in floor/threshold. Provides solution when no top rail is available.

2. Select Options
   DSM/MBS
   Door Status Monitor/Magnetic Bond Sensor
   DSM
   Door Status Monitor
   MBS
   Magnetic Bond Sensor

GF3000
For metal door and frame or glass door with top rail and metal frame. Magnet is mortised into frame header and armature is mortised into top edge of door. Universal hardware for installation into flush or recessed (1/8” to 2-1/2”) depth door edge. Armature adjustment from top edge of the door. Magnet can also mount vertically into frame and armature into vertical edge of door, with armature adjustment from latch edge of door. The unit includes a low temperature module to facilitate wood door and frame applications.

GF3000BRD
For metal door and frame or glass door with bottom rail and metal frame. The magnet is installed in the floor/threshold and the armature is installed in the bottom edge of the door. This application provides a solution when no top rail mounting is available. Recommended mounting electronic module remote from locking mechanism.

GF3000TRD
For metal door and frame or glass door with top rail and metal frame. Recommended for zero clearance condition between top of door and ceiling. Includes top rail door mounting assembly which provides armature adjustment from the latch edge of the door.

Specifications:
   Holding Force: 2700-3000 lbs.
   Current Draw:
      0.90 Amp @ 12VDC
      0.45 Amp @ 24VDC
   Weight:
      7 lbs.
   Lock Body:
   Length: 9/"*
   Height: 1/"*
   Depth: 1/"*
   w/ Mounting Tabs:
   Length: 11/"/16"
   Height: 1/"*
   Depth: 1/"*
   Armature:
   Length: 8/"
   Height: 1/"4"
   Depth: 1/"2"
   Armature Bracket:
   Length: 10/"/8"
   Height: 1/"4"
   Depth: 1/"
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Unique mounting features provide a “floating” action of both the lock assembly and the armature. This design allows the magnet assembly to move towards the armature during the locking process. In this manner, the GF3000 is able to overcome gaps of up to 1/4 inch without voltage or current inrush. Once engaged, the Shear Lock provides 3000 pounds holding force, without high operating temperatures normally associated with other Shear Locks. A microprocessor-based control module provides advanced electronic features. This circuitry automatically senses and adjusts input voltage, allowing for operation from 12 to 24 volt DC power sources.

The surface Shear Lock offers the advantage of a totally concealed locking mechanism, providing superior security and appearance. The patented design incorporates locking “tabs” on the magnet assembly with mating grooves in the armature plate. While the strength afforded by this design is a major advantage, the flexible mounting features are as important. This design allows for normal door and frame movement.

This Surface Shear Lock offers maximum versatility in application. The GF3000SM model provides a low profile, surface mount lock for outswinging doors. The GF3000TJ model provides a low profile, surface mount lock for inswinging doors. It provides a unique mounting solution with no brackets needed, which are standard with direct pull magnets. The GF3000SC model provides a semi-concealed variation, with the magnet mortised into the frame and the armature surface mounted on the door. The GF3000SC-HD model is also semi-concealed and includes a Herculite door bracket to mount the armature housing on a glass door with no top rail.

All models offer built-in automatic relock features ensuring full door closure before lock engagement. Relock time delay is easily adjusted from 0 to 30 seconds from the face of the installed lock. Optional features include Magnetic Bond Sensor (MBS) to monitor the secure/not secure condition of the lock and an optional Door Status Monitor (DSM) to sense the open/closed position of the door.

The GF3000 Series of Shear Locks are UL 10C, CUL, CSFM, and MEA Listed for use on fire labeled openings. The locks are engineered to meet ANSI/BHMA A156.23 standard for electromagnetic locks.

Benefits of Using GF3000 Surface Mounted Series Shear Locks

- Built-in Automatic Relock Switch
- Innovative Gravity Force design provides for movement of both lock and armature to overcome gaps of up to 1/4”
- 3000 lbs. of holding force
- Automatic Voltage Selection 12/24 VDC (filtered)
- Standard time delay on relock, adjustable 0-30 seconds
- Low temperature operation
- Microprocessor controlled
- Optional Magnetic Bond Sensor (MBS)
- Optional Door Status Monitor (DSM)
- Modular, slide-in in finish plates on SM and TJ models
GF3000 Surface Mounted Series Shear Locks
Special Application Solution

How to Order GF3000 Surface Mount Series

GF3000SM – DSM/MBS – 628

1. Select Model
   - GF3000SM: Standard Unit (outswinging doors)
     Adjustable from top edge of armature. Available in special finishes.
   - GF3000TJ: Top Jamb Unit (inswinging doors)
     Magnet mounts on inside top jamb. Adjustable from top edge of armature. Available in special finish.
   - GF3000SC: Semi-Concealed Unit (outswinging doors)
     Magnet is concealed in the frame and the armature assembly is surface mounted.
   - GF3000SC-HD: Semi-Concealed Unit (outswinging doors) Not Available in special finishes
     Magnet is concealed in the frame and the armature assembly is surface mounted to a glass door.

2. Select Options
   - DSM/MBS: Door Status Monitor/Magnetic Bond Sensor
   - DSM: Door Status Monitor
   - MBS: Magnetic Bond Sensor

3. Select Finish (for GF3000SM & GF3000TJ only)
   - 628 US28: Satin Aluminum, Anodized (standard)
   - 335 US19: Satin Black, Anodized
   - 613 US10B: Dark Satin Bronze, Anodized
   - 626 US26D: Satin Chrome
   - 606 US4: Satin Brass
   - 630 US32D: Satin Stainless Steel
   - 612 US10: Satin Bronze
   - 625 US26: Bright Chrome
   - 605 US3: Bright Br lbs.

Specifications:
- Holding Force: 3000 lbs.
- Current Draw: .90 Amp @ 12VDC
  .45 Amp @ 24VDC
- Weight: 8.5 lbs. (SM, TJ suffix)
  11.5 lbs. (SC, SC-HD suffix)

Lock Housing SM-TJ:
- Length: 93/16”
- Height: 1/8”
- Depth: 2"

Lock Body SC/SC-HD:
- Length: 91/2”
- Height: 1/8”
- Depth: 1/2”

Armature Housing:
- Length: 91/4”
- Height: 1/8”
- Depth: 2”

GF3000 Surface Mounted Series Shear Locks

Surface Shear Lock Applications
The GF3000 Series Surface Shear Locks are designed for use with single or pairs of doors, inswinging or outswinging. A unique inswing model eliminates brackets, standard with direct pull electromagnetic locks.

GF3000 SM
For metal door and frame, glass door with top rail and metal frame, or wood door and frame. For outswinging door applications. Armature adjustment from top edge of the armature.

GF3000 TJ
For metal door and frame, glass door with top rail and metal frame, or wood door and frame. For inswinging door applications. Unique design eliminates brackets with top jamb application. Armature adjustment from top edge of the armature.

GF3000 SC
Semi-concealed model. Magnet is concealed in the frame and the armature assembly is surface mounted on the door. For metal door and frame, glass door with top rail and metal frame, or wood door and metal frame. For outswinging door applications. Unique design when mortise top rail application is not available. Armature adjustment from top edge of the armature.

GF3000 SC-HD
Semi-concealed model with Herculite door bracket. Magnet is concealed in the frame and the armature assembly is surface mounted on the door with a Herculite door bracket. This U-shaped bracket is used on a glass door when no top rail is present. For outswinging door applications. Armature adjustment from top edge of the armature.