Hi/Shear® Magnetic Door Locks

SDC Hi/Shear® magnetic lock utilizes several of the most innovative and unique design attributes. The Hi/Shear is the magnetic lock that gives those who want a better shear lock all the latest features.

The SDC Hi/Shear is a totally concealed, high security, failsafe locking mechanism with superior appearance. The patented Hi/Shear® electromagnetic lock design incorporates a “floating” armature assembly and special alloy steel locking “tabs” on both the lock and armature assemblies, that may be adjusted both vertically and laterally to compensate for wide door gaps and warped or misaligned doors.

Hi/Shear® magnetic locks are ideal for use on commercial grade hollow metal and wood doors and frames and Herculite doors with top rails.

Hi/Shear® Magnetic Lock Features

Door Static and Alignment Sensor
The door static sensor ensures that the door is at rest and aligned, before the magnet is permitted to energize, eliminating potential for lock misalignment.

Lateral Alignment Adjustment
Lateral adjustment of shear tabs to compensate for warped or misaligned doors, permitting accurate locking.

Vertical Alignment Adjustment
Vertical adjustment of both the armature and the adjustable delay relock sensor compensates for wide door gaps.

Floating™ Assembly
A unique “floating” action makes for easier armature lift when the magnet is energized and provides the ability to overcome wide door gaps.

2000 or 2700 Lbs Holding Force
2000 or 2700lbs. of holding force without current inrush or high operating temperature normally associated with shear locks.

Alloy Steel Shear “Tabs” on Lock and Armature
Alloy shear tabs are used on both the lock and the armature to ensure continued high holding force. There is no profiling of the soft armature steel that may be prone to wear and reduced holding force.

Advanced Electronic Circuitry
Advanced electronic circuitry that incorporates door static, positioning and timed relock sensor and automatic voltage sensing for 12/24VDC input.

Quieter Operation
Noise dampeners greatly reduce the noise associated with locking and unlocking of other shear locks on the market.

UL Listed
Auxiliary Locks

Adjustable Tabs
Concealed Hi/Shear®

2000 Lbs Holding Force, 8" x 1-1/2" Lock
1561 Integrated electronics. 1/2" depth for 11/" to 2" frames
1562 External electronics. 1/2" depth for 11/" to 2" frames

2700 Lbs Holding Force, 10-7/16" x 1-1/2" Lock
1566 Integrated electronics. 1/2" depth for 11/" to 2" frames
1566 External electronics. 1/2" depth for 11/" to 1/" frames

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**Specify Armature**

Armature supplied with lock. Specify type required:
- 1565/1566: ITC, FTC or HTC
- 1565: Armature supplied with lock. Specify type required:
- 1566: Armature supplied with lock. Specify type required:

**HTR**

HTR Standard mounting armature kit for aluminum and hollow metal doors with 1/" to 1/" deep top channels, wood doors and factory prepared hollow metal flush edge doors.

**DPS**

DPS Door position switch indicates door open or closed. SPDT 0.25 Amp maximum.

**BA**

BA Bond sensor indicates proper armature contact or reduced holding power due to improper armature contact or tampering. SPDT 0.25 Amp (not available on 1560/1566)

**HTR**

HTR Hi/Shear® Innovative Design

Integrated electronic control (1561/1565)

Auto voltage sensing

Lateral adjustment of alloy steel shear tabs

Vertical adjustment of floating armature

Noise dampeners for quieter operation

Innovative floating assembly

**Hi/Shear® with integrated electronics for standard 1/2" - 2" frames**

1566 2700lbs.

1561 2000lbs.

**Hi/Shear® with external electronics for narrow 1/2" - 1/2" frames**

1566 2700lbs.

1562 2000lbs.

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**Options**

- **BA** Bond sensor indicates proper armature contact or reduced holding power due to improper armature contact or tampering. SPDT 0.25 Amp maximum.
- **DPS** Door position switch indicates door open or closed. SPDT 0.25 Amp maximum.
- **HTR** Hi/Shear® Innovative Design
- **WDRB** Wood door reinforcement box for 1565 and 1566
- **WORM** Wood door reinforcement box for 1561 and 1562

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**Specifications**

**Automatic Voltage Sensing Input**

1561/1566 650/350mA @ 12/24VDC
1566/1566 800/400mA @ 12/24VDC

**Lock Body Dimensions**

1561 8"L x 1.5"W x 1.625"D (203.2 x 38.1 x 41.3mm)
1562 8"L x 1.5"W x 1.25"D (203.2 x 38.1 x 31.7mm)
1566 10.4375"L x 1.5"W x 1.625"D (265.1 x 38.1 x 41.3mm)

**Armature Assembly Dimensions**

1561/1562 8"L x 1.5"W x 8.75"D (203.2 x 38.1 x 22.2mm)
1565/1566 8"L x 1.5"W x 8.75"D (203.2 x 38.1 x 22.2mm)

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**Options**

- **BA** Bond sensor indicates proper armature contact or reduced holding power due to improper armature contact or tampering. SPDT 0.25 Amp (not available on 1562/1566)
- **DPS** Door position switch indicates door open or closed. SPDT 0.25 Amp maximum.

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**Surface Mount Hi/Shear®**

Surface mount configurations incorporate the innovative 2000 lb holding force Hi/Shear® electromagnetic lock in a compact housing smaller than many mini surface direct pull magnetic locks. The surface mount design also provides the advantage of mounting the Hi/Shear® on the secure side of the door opening, eliminating potential for tampering.

1561S Semi-concealed mounted to the push side of an out-swing door. The mortise magnet is concealed in the frame and the armature 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.

1562SCHDB 1/2 Semi-concealed mounted to the push side of an out-swing glass door. The mortise magnet is concealed in the frame and the armature is surface mounted on the 1/2" glass door where no top rail is present utilizing the HercuLite door bracket.

1562SCHDB 3/4 Semi-concealed mounted to the push side of an out-swing glass door. The mortise magnet is concealed in the frame and the armature is surface mounted on the 1/2" glass door where no top rail is present utilizing the HercuLite door bracket.

**Options**

- **BA** Bond sensor indicates proper armature contact or reduced holding power due to improper armature contact or tampering. SPDT 0.25 Amp (not available on 1562 / 1566)
- **DPS** Door position switch indicates door open or closed. SPDT 0.25 Amp maximum.

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**Surface Mount Hi/Shear®**

Surface mount configurations incorporate the innovative 2000 lb holding force Hi/Shear® electromagnetic lock in a compact housing smaller than many mini surface direct pull magnetic locks. The surface mount design also provides the advantage of mounting the Hi/Shear® on the secure side of the door opening, eliminating potential for tampering.

1561B Surface mounted to the push side of an out-swing door. For metal door and frame, glass door with top rail and metal frame, or wood door and frame.

1561TJ Surface mounted to the pull side of an in-swing door. For metal door and frame, glass door with top rail and metal frame, or wood door and frame. This mounting configuration eliminates the need for cumbersome and unsightly top jamb Z brackets normally associated with pull side mounted magnetic locks.

**Semi-Concealed Hi/Shear®**

The semi-concealed configuration incorporates the innovative 2000 lb Hi/Shear® electromagnetic lock with a surface mounted armature assembly. The semi-concealed design also provides the advantage of mounting the Hi/Shear® on the secure side of the door opening, eliminating potential for tampering.

1562SC Semi-concealed mounted to the push side of an out-swing door. The mortise magnet is concealed in the frame and the armature 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.

1562SCHDB 1/2 Semi-concealed mounted to the push side of an out-swing glass door. The mortise magnet is concealed in the frame and the armature is surface mounted on the 1/2" glass door where no top rail is present utilizing the HercuLite door bracket.

1562SCHDB 3/4 Semi-concealed mounted to the push side of an out-swing glass door. The mortise magnet is concealed in the frame and the armature is surface mounted on the 1/2" glass door where no top rail is present utilizing the HercuLite door bracket.

**Options**

- **BA** Bond sensor indicates proper armature contact or reduced holding power due to improper armature contact or tampering. SPDT 0.25 Amp (not available on 1562 / 1566)
- **DPS** Door position switch indicates door open or closed. SPDT 0.25 Amp maximum.

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**Mortise S**

Mortise S 8"L x 1.625"W x 1.75"D (203.2 x 41.2 x 27.1mm)

**Surface**

Surface 8"L x 1.625"W x 1.75"D (203.2 x 41.2 x 27.1mm)

**Armature Assembly Dimensions**

Surface 8"L x 1.625"W x 1.75"D (203.2 x 41.2 x 27.1mm)

**Finish**

628 Anodized Aluminum
Concealed Hi/Shear®

2000 Lbs Holding Force, 8" x 1-1/2" Lock
1561 Integrated electronics, 1-1/4" depth for 1 1/2" to 2 1/4" frames
1562 External electronics, 1-1/2" depth for 1 1/2" to 1 1/2" frames

2700 Lbs Holding Force, 10-7/16" x 1-1/2" Lock
1565 Integrated electronics, 1-1/2" depth for 1 1/2" to 2 1/4" frames
1566 External electronics, 1-3/4" depth for 1 1/2" to 1 1/2" frames

Specify Armature
Armature supplied with lock. Specify type required:
1561/1562 ITCM, FTCM or HTCM
1565/1566 ITC, FTC or HTC
Armature Assembly Dimensions
1566 2700lbs.
1565 2000lbs.
Lock Body Dimensions
1561 8"L x 1.5"W x 0.875"D (203.2 x 38.1 x 22.2mm)
1562 11.5"L x 1.5"W x 0.875"D (297.4 x 38.1 x 22.2mm)
Auto voltage sensing
Vertical adjustment of floating armature
Noise dampeners for quieter operation
Innovative floating assembly

Hi/Shear® with integrated electronics for standard 1 1/2" - 2" frames
1561 2000lbs.

Hi/Shear® with external electronics for narrow 1 1/4" - 1 1/2" frames
1566 2700lbs.

Options
BA Bond sensor indicates proper armature contact or reduced holding power due to improper armature contact or tampering. SPDT 0.25Amp maximum.
DPS Door position switch indicates door open or closed. SPDT 0.25Amp maximum.
HTR Herculite top rail armature adjustment bracket for leading edge adjustments.
WORB Wood door reinforcement box for 1565 and 1566
WORBM Wood door reinforcement box for 1561 and 1562

Specifications
Automatic Voltage Sensing Input
1561/1562 600/350mA @ 12/24VDC
1565/1566 800/400mA @ 12/24VDC
Lock Body Dimensions
1561 8"L x 1.5"W x 1.625"D (203.2 x 38.1 x 41.3mm)
1562 8"L x 1.5"W x 1.25"D (203.2 x 38.1 x 31.8mm)
1565 10.4375"L x 1.5"W x 1.625"D (265.1 x 38.1 x 41.3mm)
1566 10.4375"L x 1.5"W x 1.25"D (265.1 x 38.1 x 31.8mm)
Armature Assembly Dimensions
1561/1562 8"L x 1.5"W x 0.797"D (203.2 x 38.1 x 20.2mm)
1565/1566 11.5"L x 1.5"W x 0.797"D (297.4 x 38.1 x 20.2mm)

Surface Mount Hi/Shear®
Surface mount configurations incorporate the innovative 2000 lb holding force Hi/Shear® electromagnetic lock in a compact housing smaller than many mini surface direct pull magnetic locks. The surface mount design also provides the advantage of mounting the Hi/Shear® on the secure side of the door opening, eliminating potential for tampering.

1562SCHDB Semi-concealed mounted to the push side of an in-swing door. The mortise magnet is concealed in the frame and the armature 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.
1562SCHDB 1/2 Semi-concealed mounted to the push side of an out-swing door. The mortise magnet is concealed in the frame and the armature is surface mounted on the 1/2" glass door where no top rail is present utilizing the Herculite door bracket.
1562SCHDB 24 Semi-concealed mounted to the push side of an out-swing glass door. The mortise magnet is concealed in the frame and the armature is surface mounted on the 1/2" glass door where no top rail is present utilizing the Herculite door bracket.

Options
BA Bond sensor indicates proper armature contact or reduced holding power due to improper armature contact or tampering. SPDT 0.25Amp (not available on 1562 / 1566)
DPS Door position switch indicates door open or closed. SPDT 0.25Amp maximum.

Specifications
Automatic Voltage Sensing Input
1561/1562 600/350mA @ 12/24VDC
Lock Body Dimensions
Mortise 8"L x 1.5"W x 1.25"D (203.2 x 38.1 x 31.7mm)
Surface 8"L x 1.625"W x 1.75"D (203.2 x 41.2 x 27.1mm)
Armature Assembly Dimensions
Surface 8"L x 1.625"W x 1"D (203.2 x 41.2 x 25.4mm)
Finish 628 Anodized Aluminum
Hi/Shear® Magnetic Door Locks

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The SDC Hi/Shear® is a totally concealed, high security, failsafe locking mechanism with superior appearance. The patented Hi/Shear® electromagnetic lock design incorporates a “floating” armature assembly and special alloy steel locking “tabs” on both the lock and armature assemblies, that may be adjusted both vertically and laterally to compensate for wide door gaps and warped or misaligned doors.

Hi/Shear® magnetic locks are ideal for use on commercial grade hollow metal and wood doors and frames and Herculite doors with top rails.

**Hi/Shear® Magnetic Lock Features**

**Door Static and Alignment Sensor**
The door static sensor ensures that the door is at rest and aligned, before the magnet is permitted to energize, eliminating potential for lock misalignment.

**Lateral Alignment Adjustment**
Lateral adjustment of shear tabs to compensate for warped or misaligned doors, permitting accurate locking.

**Vertical Alignment Adjustment**
Vertical adjustment of both the armature and the adjustable delay relock sensor compensates for wide door gaps.

**Floating™ Assembly**
A unique “floating” action makes for easier armature lift when the magnet is energized and provides the ability to overcome wide door gaps.

**2000 or 2700 Lbs Holding Force**
2000 or 2700lbs. of holding force without current inrush or high operating temperature normally associated with shear locks.

**Alloy Steel Shear “Tabs” on Lock and Armature**
Alloy shear tabs are used on both the lock and the armature to ensure continued high holding force. There is no profiling of the soft armature steel that may be prone to wear and reduced holding force.

**Advanced Electronic Circuitry**
Advanced electronic circuitry that incorporates door static, positioning and timed relock sensor and automatic voltage sensing for 12/24VDC input.

**Quieter Operation**
Noise dampeners greatly reduce the noise associated with locking and unlocking of other shear locks on the market.

**Adjustable Tabs**

**Surface Mount**

**Semi-Concealed**

**Concealed**

**UL Listed**

**BHM® Listed**