Hi/Shear® Electromagnetic Lock

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 metal frames and Herculite doors with top rails.



Concealed



Semi-Concealed

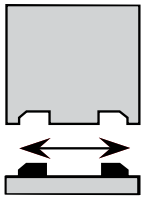


Surface Mount

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.



Adjustable Tabs

Vertical Alignment Adjustment
Vertical adjustment of the armature 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.

c UL us LISTED
Auxiliary Locks

BHMA CERTIFIED

UL10C Positive Pressure Compliant
UBC Classified in accordance with Uniform Building Code standard 7-2 "Fire Test for Door Assemblies"

Concealed Hi/Shear®

2000 Lbs Holding Force, 8" x 1-1/2" Lock

1561 Integrated electronics, 1⅝" depth for 1¾" to 2" frames

1562 External electronics, 1¼" depth for 1¼" to 1½" frames

2700 Lbs Holding Force, 10-7/16" x 1-1/2" Lock

1565 Integrated electronics, 1⅝" depth for 1¾" to 2" frames

1566 External electronics, 1¼" depth for 1¼" to 1½" frames

Specify Armature

Armature supplied with lock. Specify type required:

1565/1566 ITC, FTC or HTC

1561/1562 ITCM, FTCM or HTCM

ITC
ITCM Standard mounting armature kit for aluminum and hollow metal doors with ⅞" to 1⅛" deep top channels, wood doors and factory prepared hollow metal flush edge doors.

FTC
FTCM Mounting kit for field prepared horizontal mounting in hollow metal doors with flush edge.

HTC
HTCM Mounting kit for 1-15/16" deep Herculite channels

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 0.25 Amp maximum.

HTR Herculite top rail armature adjustment bracket for leading edge adjustments for 1565 and 1566

HTRM Herculite top rail armature adjustment bracket for leading edge adjustments for 1561 and 1562

WDRB Wood door reinforcement box for 1565 and 1566

WDRBM Wood door reinforcement box for 1561 and 1562



HTR
HTRM

Specifications

Automatic Voltage Sensing Input

1561/1562 650/350mA @ 12/24VDC

1565/1566 800/400mA @ 12/24VDC

Lock Body Dimensions

1561 8"L x 1-1/2"W x 1-5/8"D (203.2 x 38.1 x 41.3mm)

1562 8"L x 1-1/2"W x 1-1/4"D (203.2 x 38.1 x 31.7mm)

1565 10-7/16"L x 1-1/2"W x 1-5/8"D (265.1 x 38.1 x 41.3mm)

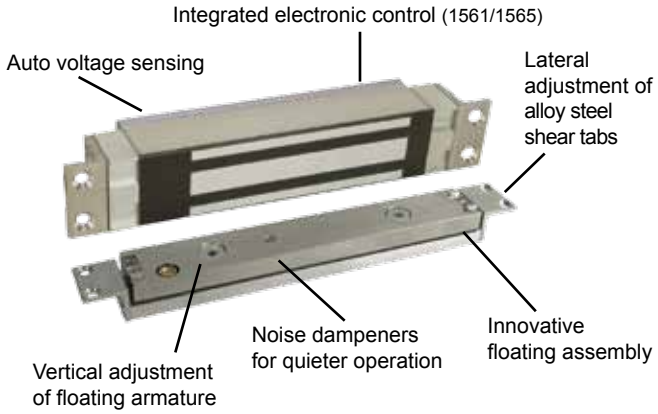
1566 10-7/16"L x 1-1/2"W x 1-1/4"D (265.1 x 38.1 x 31.7mm)

Armature Assembly Dimensions

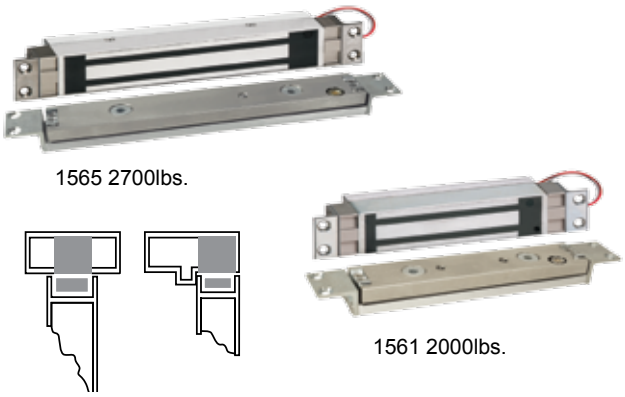
1561/1562 8"L x 1-1/2"W x 7/8"D (203.2 x 38.1 x 22.2mm)

1565/1566 11"L x 1-1/2"W x 7/8"D (279.4 x 38.1 x 22.2mm)

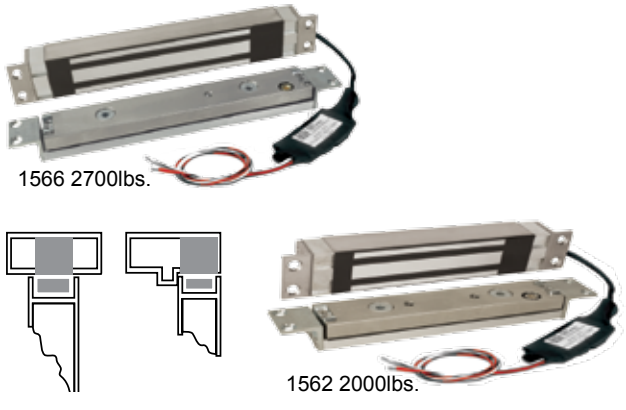
Hi/Shear® Innovative Design



Hi/Shear® with integrated electronics for standard 1¾ - 2" frames



Hi/Shear® with external electronics for narrow 1¼ - 1½" frames



Protected by one or more of the following patents:

4,826,223 4,986,581 5,000,497 5,006,723 5,003,779

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 mount 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 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 of magnetic locks

Semi-Concealed Hi/Shear®

The semi-concealed configuration incorporates the innovative 2000 lb Hi/Shear® concealed 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 ½" 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 ¾" 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 0.25 Amp maximum.

Specifications

Automatic Voltage Sensing Input

1561/1562 650/350mA @ 12/24VDC

Lock Body Dimensions

Mortise 8"L x 1-1/2"W x 1-1/4"D (203.2 x 38.1 x 31.7mm)

Surface 8"L x 1-3/4"W x 1-3/4"D (203.2 x 44.4 x 44.4mm)

Armature Assembly Dimensions

Surface 8"L x 1-3/4"W x 1"D (203.2 x 44.4 x 25.4mm)

Finish 628 Anodized Aluminum

1561S Surface Mount



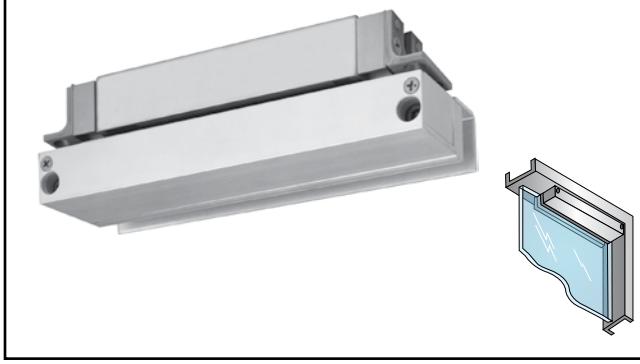
1561TJ Top Jamb Mount



1562SC Semi-Concealed



1562SCHDB Semi-Concealed Glass Mount



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