



Hi/Shear Electromagnetic Lock

Grade 1



Part 1 GENERAL

1.1 SECTION INCLUDES

A. Overview:

IDC's Hi/Shear® magnetic lock utilizes several of the most innovative and unique design attributes. It is 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.

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

B. Features:

1. A unique floating action makes for easier armature lift when the magnet is energized and provides the ability to overcome wide door gaps
2. 2000 or 2700 lbs. holding force without current inrush or high operating temperature normally associated with shear locks
3. Alloy steel shear "Tabs" are used on both the lock and the armature to ensure high holding force
4. Advanced Electronic Circuitry that incorporates door static, positioning and timed relock sensor with automatic voltage sensing for 12/24VDC input
5. Uniform Design & Installation
6. Surface Mounting or Semi-Concealed mounting options
7. Quick Mount Assembly

C. Specifications:

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

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

Lock Body Dimensions:

1561 – 8”L x 1.5”W x 1.625D (203.2 x 38.1 x 41.3mm)

1562 – 8”L x 1.5”W x 1.25D (203.2 x 38.1 x 32mm)

1565 – 10.437”L x 1.5”W x 1.625D (265.1 x 38.1 x 41.3mm)

1566 – 10.437”L x 1.5”W x 1.25D (265.1 x 38.1 x 32mm)

Armature Assembly Dimensions

1561/1562: 8”L x 1.5”W x .875”D (203.2 x 38.1 x 22.2mm)

1565/1566: 11”L x 1.5”W x .875”D (279.4 x 38.1 x 22.2mm)

NOTE: See Catalog page for more details

Protected by one or more of the following patents: 4,826,223; 4,986,581; 5,000,497; 5,006,723; 5,006,779

1.2 PERFORMANCE SPECIFICATIONS

- A. UL Listed U.S. & Canada: GWXT Auxiliary Locks
- B. UL10C: Position Positive Pressure Compliant
- C. UBC: Classified in accordance with Uniform Building Code standard 7-2, Fire Test for Door Assemblies.
- D. BHMA: Certified

1.3 SUBMITTALS

- A. Product Data: Manufacturer’s data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations
 - 2. Storage and handling requirements and recommendations
 - 3. Installation methods
- B. Shop Drawing: Manufacturer’s approved drawings detail the application
- C. Section Samples: Samples are available depicting the finish types
- D. Verification Samples: For the finish product specified, two full size samples representing the actual product, color and size

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Hi/Shear® Electromagnetic Lock, will be provided by a single manufacturer with over 30 years of experience in door closers

1.5 DELIVERY, STORAGE AND HANDLING

- A. Store products in manufacturer’s unopened packing until ready for installation
- B. No harsh chemicals are used during this process, so no special handling or disposal is required

1.6 PROJECT CONDITIONS

Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by the manufacturer for optimum results. Do not install this product if environmental conditions are outside the manufacturer’s limits.

1.7 WARRANTY

After project completion, the owner or owner's representative will receive a copy of the Manufacturer's Limited (5) year Warranty against manufacturing defects.

PART 2 PRODUCTS

2.1 MANUFACTURER

International Door Closers, Inc (Manufacturers' Rep):

1140 N Kraemer Pl, Anaheim, CA 92806 (800) 544-4422
1920 Air Lane Dr, Nashville, TN 37210 (800) 225-6737

PART 3 EXECUTIONS

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared
- B. If the substrate is the responsibility of another installer, notify the Architect of any unsatisfactory preparation before proceeding

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions

3.4 PROTECTION

- A. Protect installed products until completion of project
- B. Repair or replace any damaged products before substantial completion

END OF SECTION