Locking Devices

SDC’s approach to effective Access and Egress Solutions for the control of door openings begins with wide-ranging product lines of Locking Devices, all designed to seamlessly integrate into virtually any door control application while meeting local, regional and national fire and life safety code requirements. From electromagnetic locks, delayed egress locks, electric strikes, electrified locksets, exit devices and electric bolt locks, there’s an SDC Locking Device line designed, tested and proven to robustly perform in the most in the most demanding situations where code compliance, reliability and longevity is required.

Electromagnetic Locks

SDC’s Electromagnetic Locks are suited for interior doors, perimeter exit doors and entrances that require failsafe emergency release capability.

Compatible with any access control system, SDC Magnetic door locks meet the demands of security professionals, and the most rigorous building and fire life safety codes in the world. With no moving parts to bind or wear out, the Security Door Controls electromagnetic door lock provides positive, instantaneous release, whether caused by a signal from the fire command center, remote control or access control. SDC magnetic locks are covered by a lifetime warranty, see price list for details.
SDC’s patented EMLock® design represents the pinnacle of magnetic lock evolution. The modular EMLock® assembly makes them easy to stock, install, upgrade and maintain.

SDC 1500 series EMLocks® include a lifetime warranty and are available in 650lbs, 1200lbs, and 1650lbs holding force. Compatible with any access control system, all EMLocks® are adaptable to virtually any application utilizing Top Jamb or Glass Door mounting kits. The epoxy-less design provides a superior appearance with a plated or anodized finish on all sides. The interlocking EZ mount assembly leaves hands free for wiring and securing of mounting screws. EMLocks® are UL Listed and ANSI Grade 1 compliant.

FEATURES

- Modular Design
- Modular Upgrade Kits
- Field Upgradeable without removing from the frame
- Uniform Design & Installation
- Identical Housing, Template & Accessories
- Quick Mount Assembly

STANDARD MOUNTING FASTENERS
Self Drilling & Tapping Sheet Metal Screws and 10/32 Machine Screws supplied for different application needs. Blind nuts and Tool are optional.

UPGRADE MODULES INCLUDE:
- Relock Delay Timer
- Magnetic Bond Sensor
- Door Status Sensors
- Anti-Tamper Switch
- Holding Force Upgrade
- Energy Saver Upgrade

NEW MODULAR KITS

- EZ-T-10 Timer Input Module
- EZ-B-10 Magnetic Bond Sensor
- EZ-A Anti-Tamper Switch
- EZ-D-10 Door Position Sensor

For complete details contact SDC to request the Modular Upgrade Kit datasheet or download from the SDC website: SDCsecurity.com/modularkits
<table>
<thead>
<tr>
<th>MODELS</th>
<th>1510 SERIES GRADE 1</th>
<th>1570 SERIES GRADE 1</th>
<th>1580 SERIES GRADE 1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1650 LB / 748 KG HOLDING FORCE</td>
<td>1200 LB / 544 KG HOLDING FORCE</td>
<td>650 LB / 295 KG HOLDING FORCE</td>
</tr>
<tr>
<td>Single</td>
<td>1511</td>
<td>1571</td>
<td>1581</td>
</tr>
<tr>
<td>Double</td>
<td>1512</td>
<td>1572</td>
<td>1582</td>
</tr>
<tr>
<td>Single, split armature for pair of doors</td>
<td>1513</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPECIFICATIONS</td>
<td>Voltage 12/24VDC Voltage Sensing Input</td>
<td>Voltage 12/24VDC Voltage Sensing Input</td>
<td>Voltage 12/24VDC Voltage Sensing Input</td>
</tr>
<tr>
<td>Single</td>
<td>350mA @ 24VDC; 670mA @ 12VDC</td>
<td>125mA @ 24VDC; 250mA @ 12VDC</td>
<td>220mA @ 24VDC; 440mA @ 12VDC</td>
</tr>
<tr>
<td>Weight</td>
<td>11&quot; L x 2-3/4&quot; H x 1-9/16&quot; D</td>
<td>11&quot; L x 2-3/4&quot; H x 1-9/16&quot; D</td>
<td>8-3/4&quot; L x 2-1/8&quot; H x -1/4&quot; D</td>
</tr>
<tr>
<td>Double</td>
<td>700mA @ 24VDC; 134A @ 12VDC</td>
<td>250mA @ 24VDC; 500mA @ 12VDC</td>
<td>440mA @ 24VDC; 880mA @ 12VDC</td>
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<tr>
<td>Weight</td>
<td>22&quot; L x 2-3/4&quot; H x 1-9/16&quot; D</td>
<td>22&quot; L x 2-3/4&quot; H x 1-9/16&quot; D</td>
<td>17-1/2&quot; L x 2-1/8&quot; H x 1-1/4&quot; D</td>
</tr>
<tr>
<td>Weight</td>
<td></td>
<td></td>
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</table>

**LISTINGS & PERFORMANCE SPECIFICATIONS**

- **UL Listed U.S. & Canada:**
  - GWXT Auxiliary Locks
  - CVXJ Burglary Resistant Electrically Operate-Door Lock
  - UL10C: Position Positive Pressure Compliant

- **UBC:**
  - Classified in accordance with Uniform Building Code standard 7-2 “Fire Test for Door Assemblies”
  - ANSI/BHMA A156.23:
    - Grade 1, one million cycles
    - BHMA Certified

- **CSFM:** California State Fire Marshal
  - Listed 3774-0324:100

- **MEA:** City of New York 61-95-E
Door Position Sensor: Indicates door open and door closed. (Not available with 1513 and 1573) SPDT Dry, 250 mA @ 30VDC.

Magnetic Bond Sensor: Indicates locked and unlocked, low holding power, tampering and obstruction between armature and magnetic core. (Not available with 1513 and 1573)
- 1510 & 1570 Series: SPDT Dry, 250 mA @ 30VDC.
- 1580 Series: SPST N.O., Dry, 250 mA @ 30VDC.

Anti-tamper Sensor: Indicates access cover removal. SPDT Dry, 1 Amp @ 30VDC.

Bi-color Status LED Indicator: Field selectable Red, Green, or Amber (requires additional wiring)
- Indicates lock energized when wired to lock input.
- Indicates de-energized/unlocked or “Enter/Go” when wired to optional timer module.
- Indicates energized and de-energized or “Enter/Go” when wired to access control auxiliary output.
- Indicates door is closed and locked and door is unlocked when wired to BA.

Adjustable Timer: Built-in field adj. 0-30 sec. re-lock delay. Specify one for single or double EMLocks® (not available with 1580 series)

PRODUCT SKU SAMPLE: 1511 V D

FIELD INSTALLED OPTION KITS
Ordered separately for field upgrade. For complete details contact SDC to request more information on Modular Upgrade Kits.

EZ-T-10 Adjustable Timer Input Module: Specify (1) for single or double EMLocks® (not available with 1580 series)

EZ-D-101510, 1570 Door Position Sensor Module: Specify (2) for double EMLocks® (not available with 1513 and 1573)

EZ-D-801580 Door Position Sensor Module: Specify (2) for double EMLocks®

EZ-B-101510, 1570 Magnetic Bond Sensor Module: Specify (2) for double EMLocks® (Not available with 1513,1573)

EZ-B-801580 Magnetic Bond Sensor Module: Specify (2) for double EMLocks®

EZ-A Anti-Tamper Switch Module: Indicates cover plate removal.

EZ-1510W Holding Force Module: Exchange a 1200lb wire coil (1570 series) with this 1650lb wire coil. Specify (2) for double EMLocks®

EZ-1570W Energy Saver Module: Save on power supply and long term energy costs by exchanging 8.4 Watt, 1650lb coil with 3 Watt, 1200lb holding force coil. Specify (2) for double EMLocks®
**ACCESSORIES**

**TOP JAMB MOUNTING BRACKETS**

- **MODELS**
  - Kits for 1511, 1512, 1571, 1572
  - **TJ1** Single
  - **TJ2** Double
  - Kits for 1581, 1582
  - **TJ81** Single
  - **TJ82** Double

  See below for available finishes

- **ARCHITECTURAL HOUSINGS**
  Specify housings with your EMLocks®. Example: 1511V-30; 1512V-60

- **FEATURES**
  - **Full Width Housings** - appear as part of the frame to provide a superior architectural appearance.
  - Compatible with Models: 1511, 1512, 1571, 1572 with or without HDB kits or TJ brackets.
  - **Vertical Housings** - Side jamb mount, accommodates two 1571 or two 1511 locks, providing 2400 or 3300 lbs of holding force.

- **MODELS**
  - **Single Door Housing**
    - 30 30" Lock housing
    - 36 36" Lock housing
    - 40 40" Lock housing
    - 48 48" Lock housing
    - **CH** Custom length. Specify exact length
  - **Double Door Housing**
    - 60 60" Lock housing
    - 72 72" Lock housing
    - 84 84" Lock housing
    - 96 96" Lock housing
    - **CH** Custom length. Specify exact length
  - **Vertical Housing**
    - **VB2** For 84" high opening
    - **CV** Custom length. Specify exact length

- **FINISH**
  - **Anodized Finishes**
    - **V** Aluminum (standard)
    - **Y** Black anodized
  - **Painted Finishes**
    - **C** Brass powder coat
    - **X** Dark bronze powder coat
  - **Plated Finishes** (special order)
    - **P** Bright chrome
    - **Q** Dull chrome

**UNIVERSAL GLASS DOOR MOUNTING KIT**

- **MODELS**
  - Kit for 1511, 1571, 1581
  - **HDB1** Single
  - Kit for 1512, 1572, 1582
  - **HDB2** Double, 2 single kits

  See below for available finishes

- **DOOR COORDINATOR LOCK MOUNTING KIT**

  - **MODELS**
    - **DC-1** Door coordinator mounting bracket for single models 1511 and 1571.
    - **DC-2** Door coordinator mounting bracket for double models 1512 and 1572.
**Accessories**

**Pre-Drilled & Tapped Header Bracket**

**Application**

Used in lieu of angle brackets, the Universal Header Bracket provides a faster mounting solution, saving time and labor costs for several EmLock models. Reduce potential for mis-sized and misaligned mounting holes, broken taps, removal of broken taps. Combined with interlocking. E-Z mount assembly, save up to a half days labor with the installation of 12 locks.

**Features**

- Solid 1” bar provides higher security and superior aesthetics.
- Machined wire chase provides concealed and secure wiring
- Multiple pre-drilled and tapped mounting holes to accommodate the use of several different locks on either 4” or 4.5” aluminum frames

**Models**

- UB11 1” x 1” x 11” Universal Bracket for 1511, 1513, 1571, 1573, 1511S, 1511T, 1511DE, 1571DE
- UB12 1” x 1” x 22”. Universal Bracket for 1512 and 1572.

**Spacer Bracket**

**For Concrete Filled Frames & Aluminum Frame with Blade Stop**

**Application**

Aluminum frames with blade stop - lowers EmLock below blade stop. Concrete filled hollow metal frames provides multiple points for concealed wire entry

**Features**

- Pre-drilled and tapped specifically for 1511, 1571, 1581 EmLock
- Machined wire chase provides multiple points for concealed wire entry from concrete filled frames.
- 628 Aluminum Anodized

**Models**

- UF11V 1/2” x 1-1/2” x 11”. Spacer Bracket for 1511, 1513, 1571, 1573, 1511S, 1511DE, 1571DE
- UF12V 1/2” x 1-1/2” x 22”. Spacer Bracket for 1512 and 1572.
- UF81V 1/2” x 1-1/4” x 8-3/4”. Spacer Bracket for 1581.
- UF82V 1/2” x 1-1/4” x 17-1/2”. Spacer Bracket for 1582.

**Finish**

- V 628 Aluminum (standard)
- P 625 Bright Chrome
- C 605 Bright Brass
- Q 626 Dull Chrome
- D 606 Dull Brass
- X 313 Dark Bronze
- Y 335 Black

**Locking Devices**

Magnetic Locks

SECURITY DOOR CONTROLS   µ   WWW.SDCSECURITY.COM

13
**ACCESSORIES**

**FILLER PLATES**

**APPLICATION**

For extension of the stop to provide a proper mounting surface on the underside of the header See Figure 1B.

**MODELS**

For 8-3/4" Single Emlock & Exit Check Models 1581, 1581DE

<table>
<thead>
<tr>
<th>PART #</th>
<th>A x B</th>
</tr>
</thead>
<tbody>
<tr>
<td>FP01</td>
<td>1/8&quot; x 1-1/4&quot;</td>
</tr>
<tr>
<td>FP02</td>
<td>1/4&quot; x 1-1/4&quot;</td>
</tr>
<tr>
<td>FP03</td>
<td>3/8&quot; x 1-1/4&quot;</td>
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<tr>
<td>FP04</td>
<td>1/2&quot; x 1-1/4&quot;</td>
</tr>
<tr>
<td>FP05</td>
<td>5/8&quot; x 1-1/4&quot;</td>
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</table>

For 17-1/2" (445mm) Double Emlock Model 1582

<table>
<thead>
<tr>
<th>PART #</th>
<th>A x B</th>
</tr>
</thead>
<tbody>
<tr>
<td>FP01</td>
<td>1/8&quot; x 1-1/4&quot;</td>
</tr>
<tr>
<td>FP02</td>
<td>1/4&quot; x 1-1/4&quot;</td>
</tr>
<tr>
<td>FP03</td>
<td>3/8&quot; x 1-1/4&quot;</td>
</tr>
<tr>
<td>FP04</td>
<td>1/2&quot; x 1-1/4&quot;</td>
</tr>
<tr>
<td>FP05</td>
<td>5/8&quot; x 1-1/4&quot;</td>
</tr>
</tbody>
</table>

For 10"-11" Single Emlock & Exit Check Models 1511, 1513, 1571, 1573, 1511S, 1511T, 1511DEV, 1571DEV

<table>
<thead>
<tr>
<th>PART #</th>
<th>A x B</th>
</tr>
</thead>
<tbody>
<tr>
<td>FP11</td>
<td>1/8&quot; x 1-1/4&quot;</td>
</tr>
<tr>
<td>FP12</td>
<td>1/4&quot; x 1-1/4&quot;</td>
</tr>
<tr>
<td>FP13</td>
<td>3/8&quot; x 1-1/4&quot;</td>
</tr>
<tr>
<td>FP14</td>
<td>1/2&quot; x 1-1/4&quot;</td>
</tr>
<tr>
<td>FP15</td>
<td>5/8&quot; x 1-1/4&quot;</td>
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</table>

For 22" (559mm) Double Emlock Models 1512 / 1572

<table>
<thead>
<tr>
<th>PART #</th>
<th>A x B</th>
</tr>
</thead>
<tbody>
<tr>
<td>FP21</td>
<td>1/8&quot; x 1-1/4&quot;</td>
</tr>
<tr>
<td>FP22</td>
<td>1/4&quot; x 1-1/4&quot;</td>
</tr>
<tr>
<td>FP23</td>
<td>3/8&quot; x 1-1/4&quot;</td>
</tr>
<tr>
<td>FP24</td>
<td>1/2&quot; x 1-1/4&quot;</td>
</tr>
<tr>
<td>FP25</td>
<td>5/8&quot; x 1-1/4&quot;</td>
</tr>
</tbody>
</table>

**ARMATURE MOUNTING PLATE**

**APPLICATION**

The AR Mounting plate provides a solution for mounting the EMLock® armature to the top rail of herculite, aluminum and glass, wood and hollow metal doors that do not permit the use of thru bolts.

**MODELS**

**AR11Y** Armature mounting plate for 1511, 1571 335 Black Anodized (Specify two for models 1512, 1572)

**AR11YD** Armature mounting plate with DPS for 1511, 1571 335 Black Anodized (Specify two for models 1512, 1572)
ANGULAR BRACKETS

APPLICATION

Used as extension on shallow door frames to provide adequate mounting surface. See Figure 1C.

MODELS

For 8-3/4” Single Emlock & Exit Check Models 1581, 1581DEV

<table>
<thead>
<tr>
<th>PART #</th>
<th>A x B</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB01</td>
<td>1” x 1”</td>
</tr>
<tr>
<td>AB02</td>
<td>1” x 1-1/2”</td>
</tr>
<tr>
<td>AB03</td>
<td>1-1/2” x 1-1/2”</td>
</tr>
<tr>
<td>AB04</td>
<td>2” x 1-1/2”</td>
</tr>
</tbody>
</table>

For 17-1/2” (445mm) Double Emlock Model 1582

<table>
<thead>
<tr>
<th>PART #</th>
<th>A x B</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB30</td>
<td>1” x 1”</td>
</tr>
<tr>
<td>AB31</td>
<td>1” x 1-1/2”</td>
</tr>
<tr>
<td>AB32</td>
<td>1-1/2” x 1-1/2”</td>
</tr>
<tr>
<td>AB33</td>
<td>2” x 1-1/2”</td>
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</tbody>
</table>

For 10”-11” Single Emlock & Exit Check Models 1511, 1513, 1571, 1573, 1511S, 1511T, 1511DEV, 1571DEV

<table>
<thead>
<tr>
<th>PART #</th>
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<tbody>
<tr>
<td>AB11</td>
<td>1” x 1”</td>
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<tr>
<td>AB12</td>
<td>1” x 1-1/2”</td>
</tr>
<tr>
<td>AB13</td>
<td>1-1/2” x 1-1/2”</td>
</tr>
<tr>
<td>AB14</td>
<td>2” x 1-1/2”</td>
</tr>
</tbody>
</table>

For 22” (559mm) Double Emlock Models 1512 / 1572

<table>
<thead>
<tr>
<th>PART #</th>
<th>A x B</th>
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</thead>
<tbody>
<tr>
<td>AB21</td>
<td>1” x 1”</td>
</tr>
<tr>
<td>AB22</td>
<td>1” x 1-1/2”</td>
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<tr>
<td>AB23</td>
<td>1-1/2” x 1-1/2”</td>
</tr>
<tr>
<td>AB24</td>
<td>2” x 1-1/2”</td>
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REUSABLE HEAVY DUTY DRILL FIXTURE

BLIND NUT PLACEMENT TOOL

INTERLOCKING QUICK MOUNT ASSEMBLY

MODELS

1511-DF Heavy duty drill fixture for 1571 and 1511

1581-DF Heavy duty drill fixture for 1580

BN-PT Blind Nut Placement Tool

BN-50 Blind Nuts, 10/32, 50 Pack

Adjustable mounting bracket
Self tapping & drilling mounting screws
TYPICAL DOOR APPLICATIONS

1511 1571 1581
- AB Angle bracket
- Aluminum frame
- Aluminum & glass door
- Push side mounting

1511-HDB1 1571-HDB1 1581-HDB1
- Glass door mounting kit
- AB series angle brackets
- Metal or aluminum frame
- Glass door w/o top rail
- Push side mounting

1511-TJ1 1571-TJ1 1581-TJ81
- Top jamb mounting kit
- Hollow metal frame
- Wood or hollow metal door
- Pull side mounting

1511-(36) 1571-(36)
- Full width architectural housing
- Specify length (30", 36", 40", 48")
- Aluminum frame
- Aluminum & glass door
- Push side mounting

1512 1572 1582
- AB Angle bracket
- Aluminum frame
- Aluminum & glass doors
- Push side mounting

1512-HDB2 1572-HDB2 1582-HDB2
- HDB Glass door mounting kit
- AB series angle bracket
- Metal or aluminum frame
- Glass door without top rail
- Push side mounting
COMPONENT CONSIDERATIONS

AC Mains

Fire Alarm Interface

(2) COND

602RF
Power Supply

(3) COND

(4) COND

MD-31D
Egress PIR Sensor

1571
EMLock®
EA100
Annunciator (Lock or Frame Mount)

918
Access Control Keypad (Unsecure Side)

see page 153

423M
Manual Release Device (Secure Side)

see page 181

491
Emergency Door Release

see page 221

918
Access Control Keypad

423M
Manual Release Device

491
Emergency Breakglass Door Release

602RF
1 Amp, 12/24 VDC Class 2 Output Power Supply

see page 239

EA100
Visual Exit Annunciator

see page 277

MD-31D
PIR Egress Sensor

see page 293

Locking Devices
Magnetic Locks
COMMUNICATING BATHROOM EMLOCKS®
Single hospital bathroom shared by two patient rooms.

SYSTEM OPERATION
Both doors must be closed to lock.
Activating CB401A (B) locks both doors.
Activating CB401A (B) again unlocks both doors.
When doors are locked, activating either CB401B (C) emergency release will unlock both doors.
Both doors will unlock automatically via signal from fire panel.

SYSTEM COMPONENTS
(A) Fail Safe locks with door position switch. Example: 1511-DPS
(B) CB401A System activation push switch.
(C) CB401B Emergency release push switch to be mounted above each door. CB701B key switch optional.
(D) 631RF-UR1 Power Supply with Fire Panel Tie-In and Communicating Bath Controller
The 350 Narrow Line EmLock provides 1200 lbs holding force and failsafe access control for perimeter and interior doors that meets building security and fire life safety code requirements. The 350 series is specifically designed for high profile openings that require less obtrusive surface mount lock with architecturally superior appearance.

Unlike typical surface mount magnetic locks that project 3 to 3-1/2 inches into openings, the SDC 350 Narrow Line magnetic lock projects only 2-11/16 into the opening, enabling it to blend in exceptionally well with virtually any narrow frame. The SDC Narrow Line EmLock is the best solution available to maintain the architectural aesthetics high profile door entrances.

**FEATURES**

- 1200lbs holding force with Dual12/24VDC input
- Magnetic Bond Sensor and Door Status Sensor and LED Status indicator are standard, enabling distributors to stock one lock and eliminate need for special orders.
- Internal wire chamber with PC board mounted terminal blocks permits wiring before or after lock mounting
- Interlocking Quick Mount Bracket leaves hands free for fast, easy screw fastening and wiring
- Captive lock mounting screws provide additional convenience and speed. Interlocking bracket holds lock in place, leaving installers hands free, eliminating awkward simultaneous holding and fastening of lock.
- Armature housing prevents sagging, provides quieter operation and superior appearance
- Clear anodized aluminum standard
- ANSI/BHMA A156.23 Grade 1 compliant
- Retrofits existing Locknetics 350+ installation without replacing the original armature or additional modifications

**MODELS**

- **350V** Single Narrow Line Magnetic Lock, 628 Aluminum, Specify 2 for pair of doors with mullion Retrofits Locknetics MagForce 350+ & 350+/DSM/MBS/L1
- **352V** Double Narrow Line Magnetic Lock, 628 Aluminum, For pair of doors without mullion Retrofits Locknetics MagForce 352+ & 352+/DSM/MBS/L2
APPLICATIONS

RETROFITS DISCONTINUED LOCKNETICS 350+

The 350 EmLock retrofits the discontinued Locknetics 350+ magnetic lock without modifications. Since the Locknetics manufacturing facility is now closed, the SDC 350 EmLock has been designed to utilize the same mounting template, physical dimensions and features. Plus, the SDC 350 EmLock includes additional features such as full monitoring and EmLock Quick Interlocking Quick Mount Bracket for faster installation.

NARROW LINE EMLOCK MODELS: 350 SINGLE / 352 DOUBLE

The 350 Electromagnetic Lock is compatible with single, inswinging or outswinging, hollow metal, aluminum and wood doors and frames and glass doors. The 352 Electromagnetic Lock is compatible with pairs of inswinging or outswinging, hollow metal, aluminum and wood doors and frames and glass doors without mullions.

FULL MONITORING STANDARD

Standard features include Magnetic Bond (locked) Status, Door Status Sensor, wire chamber and integrated PC board with wiring terminal block, dual 12/24VDC input designed to ensure trouble free interface with electronic access control systems, automatic door operators, peripheral equipment and fire life safety systems for emergency release.

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350V SPECIFICATION

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Holding Force</td>
<td>1200 lbs</td>
</tr>
<tr>
<td>Input Voltage</td>
<td>Dual 12/24 VDC</td>
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<tr>
<td>Current</td>
<td>309mA @ 24VDC / 560mA @ 12VDC</td>
</tr>
<tr>
<td>Dimensions</td>
<td>12-1/2&quot; x 2-1/8&quot; x 1-11/16W (318 x 54 x 43mm)</td>
</tr>
<tr>
<td>Magnetic Bond Sensor</td>
<td>1-SPDT output, 1A @ 30VDC</td>
</tr>
<tr>
<td>Door Status Sensor</td>
<td>1-SPDT output, 250mA max. @ 30VDC</td>
</tr>
<tr>
<td>LED Indicator</td>
<td>Green-Secure, Red-Unlocked</td>
</tr>
<tr>
<td>Weight</td>
<td>8.3 lbs</td>
</tr>
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</table>

352V SPECIFICATION

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Holding Force</td>
<td>1200 lbs per door leaf</td>
</tr>
<tr>
<td>Input Voltage</td>
<td>Dual 12/24 VDC</td>
</tr>
<tr>
<td>Current</td>
<td>618mA @ 24VDC / 1020mA @ 12VDC</td>
</tr>
<tr>
<td>Dimensions</td>
<td>25&quot;L x 2-1/8&quot; x 1-11/16W (635 x 54 x 43mm)</td>
</tr>
<tr>
<td>Magnetic Bond Sensor</td>
<td>SPDT output, 1A @ 30VDC</td>
</tr>
<tr>
<td>Door Status Sensor</td>
<td>SPDT output, 250mA max. @ 30VDC</td>
</tr>
<tr>
<td>LED Indicator</td>
<td>Green-Secure, Red-Unlocked</td>
</tr>
<tr>
<td>Weight</td>
<td>18.45 lbs</td>
</tr>
</tbody>
</table>

ACCESSORIES

TOP JAMB MOUNTING BRACKETS
- TJ350 Single
- TJ352 Double

GLASS DOOR MOUNTING BRACKETS
- HDB350 Single
- HDB352 Double

(FIELD Adjustable for 1/2", 5/8" and 3/4" all glass Herculite doors)
Excel™ Series
Value Engineered Access Hardware

Economically priced alternative to low cost imports. Quality and flexibility for Commercial Applications. The Excel™ product line is designed for system integrators, distributors, installers and building owners presently using low cost import or private label brand access control hardware.

MAGNETIC LOCKS
The Excel™ Architectural Series full featured magnetic locks are easier to install and provide superior, less obtrusive appearance compared to stainless steel epoxy sealed magnetic locks. Full monitoring is standard. The quick mount assembly reduces installation time compared to epoxy sealed magnetic locks.

The value priced Excel™ E6200 Commercial Series full featured magnetic lock is made of an epoxy sealed satin stainless steel housing and utilizes the same mounting template as major competitive brands. Full monitoring is standard. Recommended for interior doors or outdoor gate applications.

MODELS

**E6200** Security Access Control, & Mantraps, Indoor/Outdoor, 1200 lb / 545 kg holding force

**E1200** Security Access Control & Mantraps, 1200 lb / 545 kg holding force

**E600** Traffic Control, Air-Locks & Communicating Bathrooms, 600 lb / 272 kg holding force
**EXCEL™ E6200 MAGNETIC LOCK**

**APPLICATION**

Security Access Control, & Mantraps, Indoor/Outdoor

1200 lb / 545 kg holding force magnetic lock for exterior, perimeter and interior door security and access control. Magnetic bond sensor and door status outputs are included for remote monitoring, mantraps and system application needs.

**STANDARD FEATURES**

- Retrofits Securitron M62 and Locknetics 70 locks
- Magnetic Bond Sensor indicates door locked with full holding power
- Door Status indicates door open or closed
- Epoxy sealed electronics, tamper resistant and weatherized for indoor and outdoor use
- Stainless steel machine screws and blind nuts
- 10 ft [3.05m] jacketed, stranded conductor cable
- Dual voltage 12/24VDC
- Architectural stainless steel housing, US32/630

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th><strong>Mechanical</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Holding Force: 1200 lbs / 545 kg</td>
</tr>
<tr>
<td><strong>Housing</strong></td>
</tr>
<tr>
<td><strong>Lock</strong></td>
</tr>
<tr>
<td><strong>Armature</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Electrical</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Wiring</strong></td>
</tr>
<tr>
<td><strong>Circuitry</strong></td>
</tr>
<tr>
<td><strong>Voltage</strong></td>
</tr>
<tr>
<td><strong>Current</strong></td>
</tr>
<tr>
<td><strong>Magnetic Bond Sensor</strong></td>
</tr>
<tr>
<td><strong>Door Status Contact</strong></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
</tr>
</tbody>
</table>

All trademarks are property of their respective owners.
EXCEL™ E1200 MAGNETIC LOCK

APPLICATION
Security Access Control & Mantraps
1200 lb / 545 kg holding force magnetic lock for perimeter and interior door security and access control. Door and lock status outputs included for remote monitoring, mantraps and system application needs.

STANDARD FEATURES
• Door status, lock status and Bi-color LED
• Interlocking quick mount assembly
• Adjustable mounting bracket with choice of self drilling and tapping mounting screws or machine screws
• Wire access chamber with terminal block
• Dual voltage 12/24VDC
• 628 Clear anodized aluminum

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Mechanical</th>
<th>Holding Force: 1200 lbs / 545 kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lock</td>
<td>10-1/2” L x 2-7/8” H x 1-5/8” D; (266 L x 73 H x 41 D mm)</td>
</tr>
<tr>
<td>Armature</td>
<td>7-5/16” L x 2-3/8” H x 5/8” D; (186 L x 61 H x 16 D mm)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electrical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Circuitry &amp; Wiring: PC board with voltage and current spike protection, instant release anti-residual magnetism circuit, terminal block for power input and status outputs</td>
</tr>
<tr>
<td>Circuitry Voltage and current spike protection and instant release anti-residual magnetism circuitry</td>
</tr>
<tr>
<td>Voltage</td>
</tr>
<tr>
<td>Current</td>
</tr>
<tr>
<td>Lock Status Contact</td>
</tr>
<tr>
<td>Door Status Contact</td>
</tr>
<tr>
<td>Weight</td>
</tr>
</tbody>
</table>

EXCEL™ E600 MAGNETIC LOCK

APPLICATION
Traffic Control, Air-Locks & Communicating Bathrooms
600 lb / 272 kg holding force magnetic lock for interior door traffic control where physical attack is not a concern. Door and lock status outputs included for remote monitoring, mantraps and system application needs.

STANDARD FEATURES
• Door status, lock status and Bi-color LED
• Interlocking quick mount assembly
• Adjustable mounting bracket with choice of self drilling and tapping mounting screws or machine screws
• Wire access chamber with terminal block
• Dual voltage 12/24VDC
• 628 Clear anodized aluminum

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Mechanical</th>
<th>Holding Force: 600 lbs / 272 kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lock</td>
<td>9-7/8” L x 2-7/8” H x 1” D; (250 L x 51 H x 26 D mm)</td>
</tr>
<tr>
<td>Armature</td>
<td>7-5/16” L x 1-1/2” H x 1/2” D; (186L x 38H x 13D mm)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electrical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Circuitry &amp; Wiring: PC board with voltage and current spike protection, instant release anti-residual magnetism circuit, terminal block for power input and status outputs</td>
</tr>
<tr>
<td>Circuitry Voltage and current spike protection and instant release anti-residual magnetism circuitry</td>
</tr>
<tr>
<td>Voltage</td>
</tr>
<tr>
<td>Current</td>
</tr>
<tr>
<td>Lock Status Contact</td>
</tr>
<tr>
<td>Door Status Contact</td>
</tr>
<tr>
<td>Weight</td>
</tr>
</tbody>
</table>
Used where the frame stop does not provide enough mounting surface, the filler bar provides enough additional surface area for proper lock mounting.

**E12F01**

- E1200 stop filler plates.
- E600: Field cut for E600
- Inches: 5/8" H x 3/4" D x 10-1/2" L

**E12F02**

- E1200 stop filler plates.
- E600: Field cut for E600
- Inches: 3/4" H x 3/4" D x 10-1/2" L

**TOP JAMB MOUNTING KIT FOR INSWING DOORS**

**MODELS**

- **E12Z** Top jamb kit for E1200
- **E6Z** Top jamb kit for E600

**GLASS DOOR ARMATURE MOUNTING KIT**

**MODELS**

- **E12U** Glass door kit for E1200
- **E6U** Glass door kit for E600

**E SERIES ANGLE BRACKETS**

Used for the extension of a narrow frame header mounting surface, the bracket provides additional surface area for proper lock mounting.

**MODELS**

- **E12A** E1200 adjustable angle bracket.
  - 10-1/2" L x 1-3/4" W x 3-1/8" D
- **E6A** E600 adjustable angle bracket.
  - 9-7/8" L x 1-1/4" W x 2-1/4" D
- **E12L** E1200 angle bracket.
  - May be field cut for use with E600
  - 10-1/2" L x 1-1/2" H x 3/4" D

**E SERIES STOP FILLER PLATES**

Used where the frame stop does not provide enough mounting surface, the filler bar provides enough additional surface area for proper lock mounting.
Hi/Shear®
Magnetic Locks

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.

**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 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.

**1200 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.
CONCEALED HI/SHEAR®

The innovative Hi/Shear® concealed configuration electromagnetic lock is available with 2000 lbs and 2700 lbs holding force for standard 1-3/4 to 2” frames with internal electronics, as well as narrow 1-1/4 to 1-1/2” frames with external electronics.

MODELS

2000 LBS HOLDING FORCE, 8” X 1-1/2” LOCK
- **1561** Integrated electronics, 1-5/8” depth for 1-¾” to 2” frames
- **1562** External electronics, 1-¼” depth for 1¼” to 1½” frames

2700 LBS HOLDING FORCE, 10-7/16” X 1-1/2” LOCK
- **1565** Integrated electronics, 1-5/8” depth for 1¾” to 2” frames
- **1566** External electronics, 1¼” depth for 1¼” to 1½” frames

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.

MODELS

- **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.
- **1562SCHDB1/2** 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.
- **1562SCHDB3/4** 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.
SURFACE MOUNT HI/SHEAR®

MODELS

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.

SPECIFICATIONS

Automatic Voltage Sensing Input

<table>
<thead>
<tr>
<th>Model</th>
<th>Input Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>1561/1562</td>
<td>650/350mA @ 12/24VDC</td>
</tr>
<tr>
<td>1565/1566</td>
<td>800/400mA @ 12/24VDC</td>
</tr>
</tbody>
</table>

Lock Body Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1561</td>
<td>8&quot;L x 1-1/2&quot;W x 1-5/8&quot;D</td>
</tr>
<tr>
<td>1562</td>
<td>8&quot;L x 1-1/2&quot;W x 1-1/4&quot;D</td>
</tr>
<tr>
<td>1565</td>
<td>10-7/16&quot;L x 1-1/2&quot;W x 1-5/8&quot;D</td>
</tr>
<tr>
<td>1566</td>
<td>10-7/16&quot;L x 1-1/2&quot;W x 1-1/4&quot;D</td>
</tr>
</tbody>
</table>

Armature Assembly Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1561/1562</td>
<td>8&quot;L x 1-1/2&quot;W x 7/8&quot;D</td>
</tr>
<tr>
<td>1565/1566</td>
<td>11&quot;L x 1-1/2&quot;W x 7/8&quot;D</td>
</tr>
</tbody>
</table>

Weight

<table>
<thead>
<tr>
<th>Model</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1561/1562</td>
<td>6 lbs</td>
</tr>
<tr>
<td>1565/1566</td>
<td>5 lbs</td>
</tr>
</tbody>
</table>

ARMATURE AVAILABLE

MODELS

ITC  Standard mounting armature kit for aluminum and hollow metal doors with ¾” to 1¾” deep top channels, wood doors and factory prepared hollow metal flush edge doors.

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

FTC  Mounting kit for 1-15/16” deep Herculite channels.

HTC  Mounting kit for 1-15/16” deep Herculite channels.

WDRB
### HOW TO ORDER

#### 1 | SPECIFY MODEL

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1561</td>
<td>Hi/Shear® 2000 lb holding force, integrated electronics</td>
</tr>
<tr>
<td>1562</td>
<td>Hi/Shear® 2000 lb holding force, external electronics</td>
</tr>
<tr>
<td>1565</td>
<td>Hi/Shear® 2700 lb holding force, integrated electronics</td>
</tr>
<tr>
<td>1566</td>
<td>Hi/Shear® 2700 lb holding force, external electronics</td>
</tr>
</tbody>
</table>

#### 2 | SPECIFY ARMATURE

Armature supplied with lock. Specify type required:

<table>
<thead>
<tr>
<th>Armature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1565/1566</td>
<td>ITC, FTC, HTC or HTR</td>
</tr>
<tr>
<td>1561/1562</td>
<td>ITCM, FTCM, HTCM or HTRM</td>
</tr>
<tr>
<td>ITC</td>
<td>Standard mounting armature kit for aluminum and hollow metal doors with ¾&quot; to 1⅛&quot; deep top channels, wood doors and factory prepared hollow metal flush edge doors</td>
</tr>
<tr>
<td>FTC</td>
<td>Mounting kit for field prepared horizontal mounting in hollow metal doors with flush edge</td>
</tr>
<tr>
<td>HTC</td>
<td>Mounting kit for 1-15/16&quot; deep Herculite channels</td>
</tr>
<tr>
<td>HTR</td>
<td>Herculite top rail armature adjustment bracket</td>
</tr>
</tbody>
</table>

#### 3 | SPECIFY OPTIONS

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>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)</td>
</tr>
<tr>
<td>D</td>
<td>Door position switch indicates door open or closed. SPDT 0.25 Amp maximum</td>
</tr>
<tr>
<td>L3</td>
<td>External LED status indicator, mounts separately through the frame and may be used to indicate lock is energized or wired to BAS bond sensor for door status</td>
</tr>
<tr>
<td>WDRB</td>
<td>Wood door reinforcement box for 1565 and 1566</td>
</tr>
<tr>
<td>WDRBM</td>
<td>Wood door reinforcement box for 1561 and 1562</td>
</tr>
</tbody>
</table>
1570 Series
Gate EMLock®

SDC’s Gate EMLock® provides 1200lbs of holding force and enables the access and egress control of pedestrian and vehicle gates. Access controls such as card readers, digital keypads and remote control stations provide gate and lock control.

Gate EMLocks® are compatible with manual and automatic, swinging and sliding, tubular and iron gates. The floating armature design compensates for gate misalignment with the electromagnet.

WEATHERIZED
SDC Gate EMLocks® are totally sealed in an epoxy filled stainless steel case. A threaded conduit fitting ensures weather resistant protection of the wiring.

FEATURES
- Stainless Steel Case
- Epoxy filled for weather resistance
- Threaded conduit fitting
- Built-in voltage kickback protection
- Low power consumption
- Built-in bond sensor (BAS)
- Built-in door position sensor (DPS)

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>1575</th>
<th>1576</th>
</tr>
</thead>
<tbody>
<tr>
<td>Holding Force</td>
<td>1200lbs</td>
<td></td>
</tr>
<tr>
<td>Voltage Input</td>
<td>450mA @ 12VDC; 225mA @ 24VDC</td>
<td></td>
</tr>
<tr>
<td>DPS and BAS sensors</td>
<td>SPDT, 250mA @ 30VDC</td>
<td></td>
</tr>
<tr>
<td>Wire Leads</td>
<td>24 AWG, 3ft. long</td>
<td></td>
</tr>
<tr>
<td>Conduit Fitting</td>
<td>1/2” Length, 3/4” outside thread, 1/2” inside thread</td>
<td></td>
</tr>
</tbody>
</table>

MECHANICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Standard</th>
<th>1575</th>
<th>1576</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lock</td>
<td>8-11/16&quot;L x 2-1/2&quot;H x 1-5/8&quot;D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Armature</td>
<td>7-3/4&quot;L x 2-13/32&quot;H x 5/8&quot;D</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Case</td>
<td>Stainless steel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>11 lbs</td>
<td>10 lbs</td>
<td></td>
</tr>
</tbody>
</table>

MODELS

- **1575U** Standard mounting with magnetic bond sensor & DPS
- **1576U** Face drilled with magnetic bond sensor & DPS
APPLICATION

With no moving parts to bind or wear, the Gate EMLock® is inherently failsafe and will unlock automatically during a power outage. For security applications, the SDC 600 series power supplies with battery backup capability, can provide continuous operation during a power outage.

CONDUIT FITTING DOOR APPLICATION

1576-MP Lock Mounting Plate for 1576
1576-ZB Lock Mounting Z Bracket for 1576 (Includes 1576-MP)

CONDUIT FITTING GATE APPLICATIONS

1576U Top Jamb Mount for Inswing Doors
1576U for OUTSWING Doors

ACCESSORIES

For top jamb door application
- 1576-MP Lock Mounting Plate for 1576
- 1576-ZB Lock Mounting Z Bracket for 1576 (Includes 1576-MP)

For sliding gate applications
- 1575-BK Mounting Bracket for 1575
- 1575-AB Armature Mounting Bracket for 1576

For swinging gate applications
- 1576-ZB Lock Mounting Bracket for 1576 (Includes 1576-MP)
- 1575-BK Lock Mounting Bracket for 1575
GATE EMLOCK® SOLUTIONS / ACCESSORIES

1. GATE MAGNETIC LOCK
   - 1575U Gate Magnetic Lock
   - 1576U Gate Magnetic Lock with face drilled mounting

2. GATE MOUNT BRACKETS
   - 1575BK / 1576-ZBV / 1576-AB / 1576-BK Application Specific Brackets

3. OUTDOOR ACCESS CONTROL
   - 923 Narrow Stand Alone Digital Keypad  see page 157

4. Request-To-Exit
   - 48201U ADA approved Narrow Mullion Push Plate Switch  see page 215
   - MSB550W Outdoor Weather Resistance Mechanical Switch Bar  see page 175
APPLICATION Public Park Safety
After-Hour Restroom Security Solution

- Deter Homeless Occupancy
- Eliminate Daily Staff Unlock/Lock
- Weather Resistant Hardware
- Reduce Vandalism & Graffiti
- Discourage Drug Use Activity
- Prevent Abduction & Sexual Crimes

1a 1575U Electromagnetic Gate Lock

2 MSB550-2WV Mechanical Switch Bar
   see page 175

3 802ALN Single Gang Key Switches
   see page 193

4 631RFXUR-1 1.5 Amp Power Supply
   see page 241

5 14-2 Timer Module
   see page 294
E300 Cabinet Lock

SDC’s E300 Cabinet Lock is a compact specialized electromagnetic lock that produces 300lbs. of holding force. Versatile mounting capability with face drilled and surface mounting holes. Aluminum housing is standard.

**FAILSAFE OPERATION**
Security and safety with no moving parts. Positive and instantaneous failsafe un-locking operation is guaranteed.

**EASY INSTALLATION**
Compact size allows easy installation in small cabinets or restricted spaces. No special tools are required.

**FEATURES**
- 300lbs. of holding force
- An electronics module provides spike and surge protection for the lock
- Dual voltage and modular design
- Strong enough even for large cabinet doors
- Protection of the lock and other devices on same line without additional parts
- Operates on 12 or 24VDC

Battery back up capability when used with a power supply and battery.

*Note: Not recommended for life safety on pedestrian doors.*

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Mechanical Specifications</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Holding Force</td>
<td>300 Lbs / 136 Kg</td>
</tr>
<tr>
<td>Lock</td>
<td>7&quot; L x 1.625&quot; H x .875&quot; D</td>
</tr>
<tr>
<td>Armature</td>
<td>5.125&quot; L x 1.75&quot; H x .625&quot; D</td>
</tr>
<tr>
<td>Weight</td>
<td>5 lbs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electrical Specifications</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Circuitry and Wiring</td>
<td>PC board with voltage and current spike protection, instant release anti-residual magnetism circuit, terminal block for power input and status output</td>
</tr>
<tr>
<td>Voltage</td>
<td>Dual 12/24VDC, field selectable Terminal block connections</td>
</tr>
<tr>
<td>Current</td>
<td>360 mA @ 12VDC; 180 mA @ 24VDC</td>
</tr>
<tr>
<td>Lock Status Contact</td>
<td>SPDT, 2 Amp @ 30VDC</td>
</tr>
</tbody>
</table>

**APPLICATION**
- Cabinets
- Drawers
- Display cases
- Machine equipment housings
- Gun safes
- Package pass through doors
- Dark rooms

**MODEL**

E300 Magnetic Lock
300lbs. holding force
EP17624 EMLock Series
Explosion Proof Magnetic Lock

Specifically designed for applications where flammable vapors are cause for concern, like clean room, chemical plant, or refinery environments by eliminating the sparks or arc in the magnetic lock.

UL listed for use in hazardous locations CLASS 1, DIVISION 2.

FEATURES
- Explosion Proof Epoxy Sealed to eliminate sparks
- No moving parts, virtually maintenance free
- Corrosion Proof
- Door Status Sensor
- 628 Clear Anodized Aluminum housing
- Classified for Class 1, Division 2 Hazardous Locations

APPLICATIONS
- Chemical Plants
- Refineries
- Paint Shops
- Cleaning Facilities
- Loading Facilities for flammable gases

MODELS
- EP17624  Push-side Explosion Proof EMLock® with conduit on side-block
- EP17624TJ  Pull-side Explosion Proof EMLock® with conduit on top panel includes Top Jamb mounting bracket
SPECIFICATIONS

**Mechanical Specifications**

<table>
<thead>
<tr>
<th>Description</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Holding Force</td>
<td>600 Lbs</td>
</tr>
<tr>
<td>Lock EP17624 Weight</td>
<td>6.2 lbs</td>
</tr>
<tr>
<td>Lock EP17624TJ Weight</td>
<td>9.7 lbs</td>
</tr>
<tr>
<td>Armature</td>
<td>7.125&quot; L x 1.75&quot; H x 0.75&quot; D</td>
</tr>
</tbody>
</table>

**Electrical Specifications**

<table>
<thead>
<tr>
<th>Description</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Voltage</td>
<td>24VDC +/-10%,</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>250 mA @ 24VDC</td>
</tr>
<tr>
<td>Door Status Sensor</td>
<td>SPDT, 100 mA @ 30VDC max</td>
</tr>
<tr>
<td>Lock Wiring</td>
<td>RED/RED (Non-Polarized)</td>
</tr>
<tr>
<td>DPS Wiring</td>
<td>White (N.O.)</td>
</tr>
<tr>
<td></td>
<td>Red (N.C.)</td>
</tr>
<tr>
<td></td>
<td>Black (Common)</td>
</tr>
</tbody>
</table>

This unit is intended to be used in the following atmospheres: Acetone, Ammonium Hydroxide, ATSM fuel C, Benzene, Methyl-Ethylketone, Diethyl-Ether, 2-Nitropropane, Ethyl-Acetate, Furfural, Normal Hexane, Methyl Alcohol.

Operating temperature for the magnetic lock will not exceed 185° F (85° C). Maximum ambient temperature is not to exceed 104° F (40° C). For supply connections, use a suitable wire with a minimum insulation temperature rating of 167° F (75° C).

This unit must be connected to a NEC (National Electric Code, NFPA 70) Class 2 Supply Circuit rated for 24 VDC with a minimum current output of 0.5 amperes and output power of 12 watts. A UL Listed SDC 600 Series Power Controller is recommended.

ACCESSORIES

- **602RF** 1 Amp, class 2 output Power Supply with optional controller and batteries
- **430 Series** 1.5” Mushroom Exit Switch, Dull Stainless Steel Finish
- **440 Series** 2.625” Mushroom Exit & Panic Switch, Dull Stainless Steel Finish

APPLICATION

[Diagram showing application of the magnetic lock]
1591 EMLock
Magnetic Lock for Sliding Doors

The SDC 1590 Series is a compact mortise EMLock® with 850lbs. of holding power packed in a 10”L x 1-7/16”W x 1-1/2”D stainless steel case.

The 1590 EMLock® is ideal for securing sliding or “swinging, manual or automatic doors. Its durability for high frequency use and its mortise installation make it the choice of specification writers, owners and architects.

With only two parts, the lock mortised in the frame and the armature in the door, the EMLock® secures the door in a closed position. When power is cut the EMLock® releases instantly.

When used with industrial sliding doors, two 1590 EMLock’s® may be used to provide up to 1700 lbs. of holding power.

FEATURES
For manual or automatic sliding doors. Only one lock is required for single or pairs of doors when travel past center is restricted

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Holding Power</td>
<td>850 Lbs</td>
</tr>
<tr>
<td>Electrical Data</td>
<td>350 mA @ 24V</td>
</tr>
<tr>
<td></td>
<td>700 mA @ 12V</td>
</tr>
<tr>
<td></td>
<td>12VDC and 24VDC standard</td>
</tr>
<tr>
<td></td>
<td>12VAC and 24VAC optional</td>
</tr>
<tr>
<td></td>
<td>(BR64 rectifier required)</td>
</tr>
<tr>
<td></td>
<td>Built-in inductive kickback protection</td>
</tr>
<tr>
<td></td>
<td>12” 18 GA power leads</td>
</tr>
<tr>
<td>Lock</td>
<td>10”L x 1-7/16”W x 1-1/4”D</td>
</tr>
<tr>
<td>Armature</td>
<td>6-5/16”L x 1-1/2”W x 1-1/4”D</td>
</tr>
<tr>
<td>Weight</td>
<td>4.5 lbs</td>
</tr>
</tbody>
</table>

MODELS

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1591U</td>
<td>Single EMLock® for Sliding Doors</td>
</tr>
</tbody>
</table>

ACCESSORIES

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAB</td>
<td>Surface mount armature angle bracket for 1591</td>
</tr>
<tr>
<td>AMP</td>
<td>Armature mounting plate for leading edge of door</td>
</tr>
<tr>
<td>DPS</td>
<td>Door Position Sensor</td>
</tr>
<tr>
<td>BR64</td>
<td>Rectifier</td>
</tr>
</tbody>
</table>

12/24 selected
5 Year Warranty