University of Alabama

Access Control

THE UNIVERSITY OF ALABAMA

Standard equipment Cut-sheets
To be used with the Access Control
Door Riser Drawings
Effective 05/20112
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A. ......¾ inch conduit
B. ......4x4 Electrical box
C. ......Local Alarm
D. ......Reader
E. ......Transfer Hinge
F. ......Electrified Panic
     .Removable Astragal / Center Mull
G. ......Electrified Lock
H. ......Harmony “Roll Tide” Lock
I. ......Wired Handicap Button
J. ......A.D.A. Relay
K. ......Electric Strikes
L. ......REX button
M. ......Magnetic Lock
N. ...... GL1 Gate Lock
       ......Z bracket cut sheet if needed
Cut Sheet A

3/4" Electrical Metallic Tubing (EMT)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Trade Size (In.)</td>
<td>3/4</td>
</tr>
<tr>
<td>Nominal Length (Ft.)</td>
<td>Varies</td>
</tr>
<tr>
<td>Nominal Outside Dia. (In.)</td>
<td>0.922</td>
</tr>
<tr>
<td>Wall Thickness (In.)</td>
<td>0.049</td>
</tr>
<tr>
<td>Material of Construction</td>
<td>Steel</td>
</tr>
<tr>
<td>Standards</td>
<td>UL</td>
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</table>
## Cut Sheet B

**Item**  
Square Box

<table>
<thead>
<tr>
<th>Box Type</th>
<th>Welded (Corner Edges)</th>
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<tbody>
<tr>
<td>Capacity (Cu.-In.)</td>
<td>30.3</td>
</tr>
<tr>
<td>Material of Construction</td>
<td>Galvanized zinc</td>
</tr>
<tr>
<td>Number of 1/2&quot; Back Knockouts</td>
<td>3</td>
</tr>
<tr>
<td>Number of 1/2&quot; Side Knockouts</td>
<td>12</td>
</tr>
<tr>
<td>Number of 3/4&quot; Back Knockouts</td>
<td>2</td>
</tr>
<tr>
<td>Number of 3/4&quot; Side Knockouts</td>
<td>8</td>
</tr>
<tr>
<td>Depth (In.)</td>
<td>2-1/8</td>
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**Blank Cover**

<table>
<thead>
<tr>
<th>Type</th>
<th>Flat, Blank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Box Type</td>
<td>4</td>
</tr>
<tr>
<td>Material of Construction</td>
<td>Galvanized zinc</td>
</tr>
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Exit Alarm

For applications that require an alarmed exit device for emergency exit doors. The ES4300A is easy to install and operate. Features include: Intrusion/Tamper Alarm Output, Remote Reset/Bypass and Field Selectable Alarm Auto Reset that make the new ES4300A the Product of Choice.

FEATURES AND BENEFITS

- Compatible with all access control systems
- Can be used as a stand alone product
- 12 or 24 VAC/VDC 200mA Operation
- 103 DB alarm sounder
- Easy installation
- Encourages employees to maintain access control procedures
- Reset/Bypass key switch and remote/bypass input (adjustable rearm delay 0-20 sec.)
- Visual status indicator
- Tamper resistant
- Incorporates Form C Output relay
- Compact design- fits in a two gang enclosure
ELECTRICAL SPECIFICATIONS

Power: 12 or 24 VDC/VAC @ 200mA Jumper Selectable

Local Control: Keyswitch for Unit Reset/Bypass

Control Input: N/O Remote Reset/Bypass

Control Output: Form C N/O & N/C Intrusion/Tamper Alarm Status Remote LED

Adjustment: Alarm Auto Reset 0-60 sec. Shunt Delay (Access/Lock Time) 0-20 sec.

Audible Alarm: 103 DB@3 feet

MECHANICAL SPECIFICATIONS

Dimensions: 2 Gang Plate with All Key options
4.6”W x 4.5”H x 2.32”D

Keyswitch: Double Bit - Rim Hardware (with or without Cylinder)

Finish: Painted - DSI Beige Stainless Steel

PRODUCT DESCRIPTION:

The ES4300A is used to monitor emergency exit doors. Typically located near the door, it monitors door position and activates a sounder and alarm contact when forced entry/exit occurs. Once triggered, the unit remains in alarm until the optional auto reset time expires or reset by the integral key switch or remotely through the dry contact.
Overview
GE Transition™ Series multi-technology access readers feature simultaneous compatibility with multi-vendor credential technologies—GE and HID 125 kHz Proximity, HID Corporate 1000 Proximity, 13.56 MHz contactless smart card technologies for MIFARE® Card Serial Number (ISO 14443A), MIFARE/DESFire Card Serial Number, and Vicinity Card Serial Number (ISO 15693), including HID iCLASS® Card Serial Number—all in one reader.
With this remarkable technology combination, security administrators can now deploy the Transition readers into existing or new facilities or systems—continuing to serve existing card-carrying users while migrating to the latest in security and smart-card technology advancements.

No matter which credential technology an organization currently employs, Transition readers allow continued use of existing systems and features—but more importantly, they also offer the ability to transition to new and more secure smart card technology. Transition readers offer security system administrators an economical solution to migrate to this new technology and better secure their businesses, all on their own timelines and budgets.

Supported Card Technologies:
- GE ProxLiteTM, ISO ProxLite, and ProxLite key fobs and tags
- HID 125 kHz ProxCard II, ISOProx II, ProxKey II, ProxCard and Corporate 1000 (custom formats)
- MIFARE ISO 14443A Card Serial Number (CSN)
- MIFARE/DESFire CSN
- Vicinity ISO 15693 CSN
- HID iCLASS CSN

Standard Features:
- Configuration card (supplied) sets the Transition reader to 2-state or 4-state supervised F/2F mode, or for Wiegand data output (T-500SW versions only).
- Supports GE and HID Corporation (including Corporate 1000) Proximity, MIFARE CSN (ISO 14443A), MIFARE/DESFire CSN, and Vicinity CSN (ISO 15693) credentials, including HID iCLASS CSN
- Accepts 5-16 VDC power input
- Allows easy migration from Proximity to Mifare, and Vicinity Smart Card technologies
- Offers high-reliability, consistent read-range performance, and low-power consumption
- Installs on both metal and non-metal surfaces
- Provides tri-color LED and beep indication for status, alarm, and tamper conditions
- Internal tamper alarm alerts security personnel if the reader is breached
Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Grey, charcoal, and black</td>
</tr>
<tr>
<td>Certifications</td>
<td>FCC, CE</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>T-500SW: 44 x 148 x 30 mm</td>
</tr>
<tr>
<td></td>
<td>T-520SW and T-525SW: 44 x 148 x 31.7 mm</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-25 to 65°C</td>
</tr>
<tr>
<td>IP Rating</td>
<td>IP 65</td>
</tr>
<tr>
<td>Relative humidity</td>
<td>0 to 95%, non-condensing</td>
</tr>
<tr>
<td>Wires</td>
<td>Wiegand: 5 conductors (minimum)</td>
</tr>
<tr>
<td></td>
<td>GE F2F: 4 conductors (minimum)</td>
</tr>
<tr>
<td>Cabling distance</td>
<td>GE F2F systems: up to 914 m at 12VDC</td>
</tr>
<tr>
<td></td>
<td>Wiegand output: up to 152 ft</td>
</tr>
<tr>
<td>Access control systems</td>
<td>ProxCard II, MIFARE, and ProxProx</td>
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<tr>
<td></td>
<td>MIFARE ISO 14443A, MIFARE Standard, MIFARE Light, MIFARE Ultra Light, key fobs, and tags</td>
</tr>
<tr>
<td>Credit Cards</td>
<td>For detailed system compliance specifications, refer to the reader installation guide</td>
</tr>
</tbody>
</table>

Read Range

Distances may vary depending on environment.

Model T-500SW/W:
- GE Proximity—up to 8.89 cm
- HID Proximity and Corporate 1000—up to 8.89 cm
- MIFARE and MIFARE/DESFire—up to 2.54 cm
Ultralight cards not supported
- Vicinity—up to 8.89 cm
- iCLASS—up to 8.89 cm

Model T-520SW/W, T-525SW/W:
- GE Proximity—up to 15.24 cm
- HID Proximity and Corporate 1000—up to 15.24 cm
- MIFARE and MIFARE/DESFire—up to 2.54 cm
Ultralight cards not supported
- Vicinity—up to 15.24 cm
- iCLASS—up to 15.24 cm

Intelligent Supervision

GE’s “SW” series of Transition readers provides superior value when performance-matched with select GE access control platforms. Only GE offers intelligent supervision (F/2F Supervised mode) that continuously monitors communication between the access control panel, the reader at the door, and door contact and Request-to-Exit (REX) equipment. The unique four-state supervision of the Transition readers monitors and reports cut and short-circuit lines. There’s also an internal tamper-alarm mechanism, so security staff are immediately notified if a reader is tampered with, a door is breached or a cable is cut or shorted. Tri-color LED and audible alerts indicate status, alarm and perimeter-tampering conditions—giving you more security than is possible with conventional Wiegand-based installations.

Ordering Information

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>430209003</td>
<td>T-500SW mullion, black*</td>
</tr>
</tbody>
</table>

As a company of innovation, UTC Fire & Security reserves the right to change product specifications without notice. For the latest product specifications, visit UTC Fire & Security online or contact your sales representative.
Transfer Device Solutions

Hardwiring Made Easy™

ASSA ABLOY, the global leader in door opening solutions
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How ElectroLynx® Helps
To answer the demand for “smart” electronic access control and locking solutions that require fast, easy, and cost-effective installation, ASSA ABLOY Group brands use the ElectroLynx standardized plug-in connectors and color-coded wiring system. With ElectroLynx, doorway components come pre-wired for easy hookup to the power source. Key to the system is the transfer device hinge that carries power from the frame to the locking hardware.

Overview:
- Makes it easy to bring power to the locking hardware
- Wires have connectors that snap together, like plugging a telephone into a jack
- Developed by ASSA ABLOY and rapidly becoming the industry standard

Key Benefits of ElectroLynx Include:
- Fast, fool-proof, and future-proof installations
- Easy upgrades and retrofitting while maintaining fire rating
- Snap-together Molex® connectors ensure proper connections
- No need to match up wires, create connections or drill holes in the door or frame
- Concealed wiring preserves aesthetics of the opening

Hardwiring Made Easy™

As part of their promise to provide innovative, fast and effective high security solutions to their customers, ASSA ABLOY Group brands offer ElectroLynx®, a universal quick-connect system that simplifies the electrification of the door opening.

ElectroLynx® is a registered trademark of ASSA ABLOY Inc.
Plug-and-Play

McKINNEY hinges and RIXSON pivots can have ElectroLynx connectors to transfer power from the incoming source through to the electrified hardware. The only hardwiring is from the building’s wiring system to the opening.

All ElectroLynx retrofit cables are 12 conductor, supplied with an 8-pin connector and a 4-pin connector. If you are utilizing only 8-pin conductors or less, you can cut off the excess 4-pin conductor connectors.

- Pre-wired doors from CECCO DOOR, CURRIES, BARON and GRAHAM have special harnesses built in to house the wiring components.
- ElectroLynx is offered on the electrified hardware products of ADAMS RITE, CORBIN RUSSWIN, HES, RIXSON, SARGENT, SECURITRON and YALE

1. 15’2” ElectroLynx cable from hinge location to ceiling
2. Electric hinge or pivot bridges the power from the frame to the door
3. In-the-door wiring harness brings power to the locking hardware or exit device
4. Locking hardware or exit device comes pre-wired with connectors

Pre-wired Doors

The ElectroLynx system inside a door and frame includes a one-piece pre-fabricated wiring harness equipped with Molex connectors. The wiring harness consists of 8-pin and 4-pin ElectroLynx connectors with 22 gauge wire. It is an efficient labor-saving alternative to using conduit inside a door, which requires installation of wires at the job site.

In addition to standard doors, fire rated doors from ASSA ABLOY brands - BARON, CECCO DOOR, CURRIES and GRAHAM - are also available with ElectroLynx cabling.
If you are not ordering ASSA ABLOY Door Group doors with the ElectroLynx cable pre-installed in the door, you must order an ElectroLynx retrofit cable to go between ANY hardware and the hinge. This includes 3" cables to go from the hinge to an exit device and up to a 15' cable to go up and around a full lite metal door. To ensure you order the correct ElectroLynx connecting cables, follow these steps:

1. Are the doors preinstalled with ElectroLynx cables?
   - NO
   - YES

2. You do not need to order a *through-door cable*.
   - Order cable with Molex connectors on both ends, illustrated below.
   - Order cable with one end with Molex connectors, and one end pinned, illustrated below.

3. Also order a 15' cable to go from the frame side hinge location, inside the wall up to the ceiling for termination.

Standard ElectroLynx Retrofit Cable Sizes

<table>
<thead>
<tr>
<th>Actual Cable Length</th>
<th>12 Conductor and Molex both ends</th>
<th>12 Conductor and Molex one end, pinned one end</th>
<th>Typical Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>3'</td>
<td>QC-C003</td>
<td>QC-C003P</td>
<td>Between hinge and the end of an exit device.</td>
</tr>
<tr>
<td>6'</td>
<td>QC-C006</td>
<td>QC-C006P</td>
<td>Between hinge and thorough the door to the lockset or exit device trim.</td>
</tr>
<tr>
<td>12'</td>
<td>QC-C012</td>
<td>QC-C012P</td>
<td></td>
</tr>
<tr>
<td>26'</td>
<td>QC-C200</td>
<td>QC-C200P</td>
<td></td>
</tr>
<tr>
<td>32'</td>
<td>QC-C206</td>
<td>QC-C206P</td>
<td></td>
</tr>
<tr>
<td>36'</td>
<td>QC-C300</td>
<td>QC-C300P</td>
<td></td>
</tr>
<tr>
<td>44'</td>
<td>QC-C306</td>
<td>QC-C306P</td>
<td></td>
</tr>
<tr>
<td>50'</td>
<td>QC-C400</td>
<td>QC-C400P</td>
<td></td>
</tr>
<tr>
<td>15' 2&quot;</td>
<td>QC-C1600</td>
<td>QC-C1500P</td>
<td>From the hinge location, up the jamb to above the ceiling, or up and around full lite or half lite metal door.</td>
</tr>
</tbody>
</table>
McKINNEY QC Concealed Circuit Electric Hinges

The McKINNEY ElectroLynx® hinge is an intermediate connector that passes a constant flow of current between the source of power (jamb) and the actuated devices in the door (electric locks, exit devices, etc.) regardless of door position. Each hinge features concealed plug connectors that eliminate the need for separate or exposed wiring. Brass eyelets and protection and durability to the ElectroLynx hinge and common wire colors and standard connectors make installation quick and simple. Once installed, it will give no outward indication of its function and will transmit power efficiently and reliably, as long as the wire capacity is not exceeded.

All ElectroLynx hinges are factory tested and specially packaged to minimize against damage during shipment. Installation instructions are packed with each hinge. 28 Gauge multi-strand wires are used. A 6" pigtail is provided for connection to the source wiring, and additional 6" pigtails may be requested. The wire colors are with the electromechanical hardware of other ASSA ABLOY brands.

- An 8 position connector is used for QC2, QC4 QC6 and QC8 wire hinges
- An 8 position and 4 position connector is used for QC12 wire hinges
- QC2, 4 or 6 hinges are available for special applications, but are not used with the decision tree found on page 4

Please call 1-800-610-WIRE (9473) if you are in doubt regarding hinge requirements.

Available up to 12 wires
- Rated 4 amp continuous @ 24 volts AC or DC, 16 amp pulse for 300 milliseconds (cycle time not less than 5 seconds), 10 amp pulse for 250 milliseconds (cycle time not less than 5 seconds)
- Optional MG-16 mortar guard available (mortar guard required on steel frames)
- Steel and Stainless Steel QC hinges are UL listed for use up to and including 3 hour rated openings
- QC2 wire hinges provided with 8 position connector for new construction, specify QC2
- Consult customer service for availability

How to order string
4½X4½ TA2714 26D QC12

<table>
<thead>
<tr>
<th>3-Knuckle</th>
<th>5-Knuckle</th>
</tr>
</thead>
<tbody>
<tr>
<td>TA314</td>
<td>TA2314</td>
</tr>
<tr>
<td>TA714</td>
<td>T4A3386</td>
</tr>
<tr>
<td>TA386</td>
<td>T4A3786</td>
</tr>
<tr>
<td>TA786</td>
<td>TA2695</td>
</tr>
<tr>
<td></td>
<td>T4A3395</td>
</tr>
<tr>
<td></td>
<td>T4A3795</td>
</tr>
</tbody>
</table>

Full Mortise QC hinges are available in most BHMA and McKINNEY powder coat finishes
McKINNEY ElectroLynx Power over Ethernet (PoE) Hinge

The McKINNEY ElectroLynx PoE, the next phase of Quick Connect hinge products by McKINNEY, provides for the passing of Ethernet data through the door opening. Installation is a snap with the friendly "plug and play" connectors which allow power to be linked from the incoming source through the door to the electrified hardware. PoE data is bidirectional.

Brass eyelets add protection and durability to the PoE hinge which features common wire colors coordinated to work with intelligent Power over Ethernet electromechanical hardware from SARGENT and CORBIN RUSSWIN.

The PoE hinge should be installed in the second from bottom hinge position on the door. Once installed, it will give no outward indication of its function and will transfer power and data efficiently and reliably, as long as the wire capacity is not exceeded.

All PoE hinges are factory tested and specially packaged to minimize damage during shipment. Installation instructions are packed with each hinge. Along with the PoE hinge, mating PoE door and frame side harnesses are required, to complete the opening. The required PoE harnesses must be ordered separately (see below for detail).

Specify suffix PoE. Consult factory for the availability of additional finishes and hinge types.

Power over Ethernet Hinge Features

Each hinge features two 6-position and two 4-position Molex connectors, 9 multistrand wires; 2 twisted pairs (26 AWG), 4 straight conductors (28 gauge) and 1 straight conductor (24 AWG) with concealed plug connectors that eliminate the need for separate or exposed wiring. Rated 350 mA continuous @ 48 volts DC nominal, the hinge is capable of two PoE wiring configurations:

1. Power over Data (5 wire); Power and Data supplied together over the 2 twisted (26 AWG) pairs and the 24 AWG conductor is used for the earth ground connection.

2. Data with Power over spares (9 wire); Data over 2 twisted (26 AWG) pairs with Power over spare pairs (4 straight 28 AWG conductors) and the 24 AWG conductor is used for the earth ground connection.

<table>
<thead>
<tr>
<th>McKINNEY CATALOG #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.5 x 4.5 TA2714 26D PoE</td>
<td>Standard Weight 5 Knuckle</td>
</tr>
<tr>
<td>4.5 x 4.5 T4A3786 26D PoE</td>
<td>Heavy Weight 5 Knuckle</td>
</tr>
</tbody>
</table>

NOTES:
The PoE door & frame harnesses can accommodate a variety of new (with raceway) and retrofit applications. Connectors are small enough to run through a 3/8" (min.) stile-to-stile door raceway.

Connects to intelligent Power over Ethernet electromechanical hardware from SARGENT and CORBIN RUSSWIN.

Standard ElectroLynx Power over Ethernet (PoE) Harnesses

<table>
<thead>
<tr>
<th>Harness Length</th>
<th>McKINNEY Catalog #</th>
<th>Door Side Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>30&quot;</td>
<td>PoE-C206P</td>
<td>20&quot; to 25&quot; door width (doors with 3 butt hinges with PoE hinge in center to stile to stile raceway to lock prep).</td>
</tr>
<tr>
<td>36&quot;</td>
<td>PoE-C300P</td>
<td>26&quot; to 31&quot; door width (doors with 3 butt hinges with PoE hinge in center to stile to stile raceway to lock prep).</td>
</tr>
<tr>
<td>42&quot;</td>
<td>PoE-C306P</td>
<td>32&quot; to 36&quot; door width (doors with 3 butt hinges with PoE hinge in center to stile to stile raceway to lock prep).</td>
</tr>
<tr>
<td>48&quot;</td>
<td>PoE-C400P</td>
<td>37&quot; to 42&quot; door width (doors with 3 butt hinges with PoE hinge in center to stile to stile raceway to lock prep).</td>
</tr>
<tr>
<td>54&quot;</td>
<td>PoE-C406P</td>
<td>43&quot; to 48&quot; door width (doors with 3 butt hinges with PoE hinge in center to stile to stile raceway to lock prep).</td>
</tr>
</tbody>
</table>

Frame Side Application

<table>
<thead>
<tr>
<th>Harness Length</th>
<th>McKINNEY Catalog #</th>
<th>Frame Side Application</th>
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</thead>
<tbody>
<tr>
<td>180&quot;</td>
<td>PoE-C1500P</td>
<td>From the hinge location, up the jamb to wall/ceiling</td>
</tr>
</tbody>
</table>
# Hinge Wiring Requirements

**CORBIN RUSSWIN**

<table>
<thead>
<tr>
<th>Access Control Products - All Device Types</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Access 600 Series RNE1</td>
<td>QC12</td>
</tr>
<tr>
<td>Access 800 Series NE1</td>
<td>QC8</td>
</tr>
<tr>
<td>Access 800 Series AC2 (Hard Powered)</td>
<td>QC8</td>
</tr>
<tr>
<td>Cylindrical Locksets CL3300 Series</td>
<td></td>
</tr>
<tr>
<td>All Functions</td>
<td>QC8</td>
</tr>
<tr>
<td>Mortise Locksets ML20900 Series</td>
<td></td>
</tr>
<tr>
<td>All Functions / Options</td>
<td>QC8</td>
</tr>
<tr>
<td>Electrified Exit Devices ED5000 / ED4000</td>
<td></td>
</tr>
<tr>
<td>All Functions / Options (Exception M93, M61)</td>
<td>QC8</td>
</tr>
<tr>
<td>M93 (Latch Bolt Monitor) Alone or in combination with any other option</td>
<td>QC12</td>
</tr>
<tr>
<td>M61 (Alarmed Exit with M35 Hardwired Option)</td>
<td>QC12</td>
</tr>
<tr>
<td>Electrified Exit Trim 9900 Series</td>
<td></td>
</tr>
<tr>
<td>All Functions / Options</td>
<td>QC8</td>
</tr>
</tbody>
</table>

**YALE**

<table>
<thead>
<tr>
<th>Access Control Products - All Device Types</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Symphony Series</td>
<td>QC12</td>
</tr>
<tr>
<td>eBoss Series (Hard Powered)</td>
<td>QC8</td>
</tr>
<tr>
<td>Cylindrical Locksets 5400LN / 5300LN Series</td>
<td></td>
</tr>
<tr>
<td>All Functions / Options</td>
<td>QC8</td>
</tr>
<tr>
<td>Mortise Locksets 8800 Series</td>
<td></td>
</tr>
<tr>
<td>All Functions / Options (Exception LBM, DBM)</td>
<td>QC8</td>
</tr>
<tr>
<td>LBM (Latchbolt Monitor)</td>
<td>QC12</td>
</tr>
<tr>
<td>DBM (Deadbolt Monitor)</td>
<td>QC12</td>
</tr>
<tr>
<td>Electrified Exit Devices 7000 Series</td>
<td></td>
</tr>
<tr>
<td>All Functions / Options (Exception O, A)</td>
<td>QC8</td>
</tr>
<tr>
<td>O (Latch Bolt Monitor) Alone or in combination with any other option</td>
<td>QC12</td>
</tr>
<tr>
<td>A (Alarmed Exit with HW Hardwired Option)</td>
<td>QC12</td>
</tr>
<tr>
<td>Electrified Exit Trim 600 Series</td>
<td></td>
</tr>
<tr>
<td>All Functions / Options</td>
<td>QC8</td>
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</table>

**SARGENT**

<table>
<thead>
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<tbody>
<tr>
<td>Harmony Series</td>
<td>QC12</td>
</tr>
<tr>
<td>Profile Series v.N1</td>
<td>QC8</td>
</tr>
<tr>
<td>Profile Series v.G1.5 (Hard Powered)</td>
<td>QC8</td>
</tr>
<tr>
<td>Cylindrical Locksets 10 Line / 8 Line</td>
<td></td>
</tr>
<tr>
<td>All Functions / Options</td>
<td>QC8</td>
</tr>
<tr>
<td>Mortise Locksets 8200 Series</td>
<td></td>
</tr>
<tr>
<td>All Functions / Options (Exception LX, DX)</td>
<td>QC8</td>
</tr>
<tr>
<td>LX (Latchbolt Monitor)</td>
<td>QC12</td>
</tr>
<tr>
<td>DX (Deadbolt Monitor)</td>
<td>QC12</td>
</tr>
<tr>
<td>Electrified Exit Devices 80 Series</td>
<td></td>
</tr>
<tr>
<td>All Functions / Options (Exception 56-, TL-, 59-, AL-)</td>
<td>QC8</td>
</tr>
<tr>
<td>56- (Electronic Latch Retraction) Timer Function Only</td>
<td>QC12</td>
</tr>
<tr>
<td>TL- (Electro-Luminescent)</td>
<td>QC12</td>
</tr>
<tr>
<td>59- (Electroguard Delayed Egress) Remote Alarm, Latchbolt Mon.</td>
<td>QC12</td>
</tr>
<tr>
<td>AL- (Alarmed Exit with 546 Harness - Hardwired Option)</td>
<td>QC12</td>
</tr>
<tr>
<td>Electrified Exit Trim 700 Series</td>
<td></td>
</tr>
<tr>
<td>All functions / Options</td>
<td>QC8</td>
</tr>
<tr>
<td>Electrified Exit Devices AND Electrified Trim Combination</td>
<td></td>
</tr>
<tr>
<td>All Options with All Trim (Exception 56-, TL-, 59-, AL-, 54-)</td>
<td>QC12</td>
</tr>
<tr>
<td>56- (Electronic Latch Retraction) Timer Function Unavailable</td>
<td>QC12</td>
</tr>
<tr>
<td>TL- (Electro-Luminescent) Unavailable</td>
<td>QC12</td>
</tr>
<tr>
<td>59- (Electroguard Delayed Egress) Remote Alarm, Latchbolt Unavailable</td>
<td>QC12</td>
</tr>
<tr>
<td>AL- (Alarmed Exit) Remote Reset and Door Position inputs Unavailable</td>
<td>QC12</td>
</tr>
<tr>
<td>54- (Trim Monitor Switch) Normally Closed Switch option Unavailable</td>
<td>QC12</td>
</tr>
</tbody>
</table>

---

The University primarily uses:

- **QC 12** on Harmony locks
- **QC 8** on Mortise 8200 series and exit devices 80 series
- **ALL DOORS ORDERED MUST COME PREWIRED WITH THE WHIP FOR INSTALLATION TO THE PREWIRED HINGE.**

1-800-810-WIRE (9473)
McKINNEY Aluminum Continuous Electrified Hinges

The McKINNEY electrified continuous hinge is furnished with bonded, 4-conductor flat cable with connectors at each leaf. Two options allow variable degrees of service to be performed at the specific location of current carrying cables via either a removable 8" or a pivoting 8" section of the hinge. Both of these options, SER and ACC are available as 4, 8 or 12 wire configurations on our Full Mortise Aluminum Continuous Hinges.

Serviceable/Removable (SER) - The hinge is furnished to be installed in three sections, allowing the current carrying cables to be serviced or replaced without removing the door from the frame. Additionally the SER option allows the current carrying cables to be safely stored or delivered to the electrician or security contractor prior to the installation of the electrified hardware, eliminating the necessity of the electrician or security contractor being present when the doors are being hung.

Accessible (ACC) – The hinges are furnished to be installed in a single section with each leaf modified to pivot at the location of the current carrying cables and allow access to the cables and connected wiring. Electrical modification is in the center of the hinge.

Features:

• Performance tested 1,250,000 cycles with the 4-conductor flat cable
• Each 4-conductor cable carries 4 amps @ 24volts with a 16 amp inrush current for 300 milliseconds
• Each hinge is provided with a 4 amp in-line fuse to protect the cable from any overload or surge in power
• Flat cable conductor is warranted for 5 years
• Hinges are handed

• Available on full mortise aluminum continuous hinges
• Each electrical prep is supplied with a 48" and 96" wire harness
• ElectroLynx HC-6/4 or HC-6/8 pigtales are included in pack for installation with other ASSA ABLOY ElectroLynx products
• Electrical modification meets new SDI location at center of hinge

McKINNEY Stainless Steel Pin & Barrel Continuous Electrified Hinges

Features:

• The McKINNEY EL option is available on FM300, FM3500 and FM3700 edge mount hinges (not available on raised barrel applications)
• 14 Gauge, type 304 stainless steel, features .25 diameter stainless pin
• Symmetrically templated hole pattern
• FM300 & FM3700 Supports weight up to 600 lbs.; FM3500 supports up to 900 lbs. (maximum 40" door width)
• Hinges are handed
• Optional ETAP electrical transfer prep available
• Available in 4, 8 or 12 wire configurations

EL Concealed Current Transfer (Standard Prep Locations)
For McK-FM300, McK-FM3500, McK-FM3700
EL-4 Qty (4) 28 Gauge Wires
EL-8 Qty (8) 28 Gauge Wires
EL-12 Qty (12) 28 Gauge Wires
Door Cord and Electrical Transfer (EPT)

**McK-EPT** Electrical Power Transfer
- Installs in the door and frame edges
- Accepts a thick cable and protects it within a flexible steel shield
- Device that will work on most doors hung using butt hinges, continuous hinges or pivots
- Will not function on a center pivot door

**How to Order**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>McK-EPT</td>
<td>Electrical power transfer</td>
</tr>
<tr>
<td>McK-EPTL</td>
<td>Electrical power transfer, long</td>
</tr>
<tr>
<td>McK-EL-EPT</td>
<td>ElectroLynx EPT -12 wire</td>
</tr>
<tr>
<td>McK-EL-EPTL</td>
<td>ElectroLynx EPTL -12 wire</td>
</tr>
</tbody>
</table>

EPT can be ordered with ElectroLynx by specifying McK-EL-EPT or McK-EL-EPTL.

**McK-TSB-C** Door Cord
- Simplest and most economical solution for power transfer
- Consists of an 18’ or 36’ armored stainless steel cable and plastic end pieces in light gray and black
- Cable has an interior diameter of .25”
- Supports interior wire cables up to .2”

**How to Order**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>McK-TSB-C</td>
<td>Door cord with gray/black caps 18’ cord</td>
</tr>
<tr>
<td>McK-TSB-CXL</td>
<td>Door cord with gray/black caps 36’ cord</td>
</tr>
</tbody>
</table>

1-800-810-WIRE (9473)  www.mckinneyhinges.com
Service Kit and Tools

QC-R001 Service Kit

The service kit includes a quantity of every different type of connector and terminal required for repairing product connections/terminations or pinning wires on certain retrofit harnesses. Contains 10 each 2, 4, 8 molex receptacles and plugs as well as corresponding terminals, extraction tool and pinning assembly guide.

<table>
<thead>
<tr>
<th>Miscellaneous Parts</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 bag (100 pc)</td>
<td>QC-RF2</td>
<td>Female receptacle (2ckt)</td>
</tr>
<tr>
<td>1 bag (100 pc)</td>
<td>QC-RF4</td>
<td>Female receptacle (4ckt)</td>
</tr>
<tr>
<td>1 bag (100 pc)</td>
<td>QC-RF8</td>
<td>Female receptacle (8ckt)</td>
</tr>
<tr>
<td>1 bag (100 pc)</td>
<td>QC-RM2</td>
<td>Male plug (2ckt)</td>
</tr>
<tr>
<td>1 bag (100 pc)</td>
<td>QC-RM4</td>
<td>Male plug (4ckt)</td>
</tr>
<tr>
<td>1 bag (100 pc)</td>
<td>QC-RM8</td>
<td>Male plug (8ckt)</td>
</tr>
<tr>
<td>1 bag (100 pc)</td>
<td>QC-FT2024</td>
<td>Female terminal (AWG 20-24)</td>
</tr>
<tr>
<td>1 bag (100 pc)</td>
<td>QC-FT2630</td>
<td>Female terminal (AWG 26-30)</td>
</tr>
<tr>
<td>1 bag (100 pc)</td>
<td>QC-MT2024</td>
<td>Male terminal (AWG 20-24)</td>
</tr>
<tr>
<td>1 bag (100 pc)</td>
<td>QC-MT2630</td>
<td>Male terminal (AWG 26-30)</td>
</tr>
<tr>
<td>1 bag (10 pc)</td>
<td>QC-DCC</td>
<td>Pinning assembly guide</td>
</tr>
</tbody>
</table>

QC-R003 Molex Hand Crimp Tool

The crimp tool is required for adding Molex terminals (connector pins) to wires used with ElectroLynx products.

The tool is intended for low volume, or repair requirements only.

QC-R002 Extraction Tool

The extraction tool is a simple hand tool used to remove damaged terminals from an ElectroLynx female receptacle or male plug.

QC-DCC Pinning Assembly Guide

Included with every pinned conductor to aid in wire assembly.
ASSA ABLOY Standard Pinout Colors

2 Thru 8 Wire

<table>
<thead>
<tr>
<th>Connection Pin</th>
<th>Color Wire</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Black</td>
</tr>
<tr>
<td>2</td>
<td>Red</td>
</tr>
<tr>
<td>3</td>
<td>White</td>
</tr>
<tr>
<td>4</td>
<td>Green</td>
</tr>
<tr>
<td>5</td>
<td>Orange</td>
</tr>
<tr>
<td>6</td>
<td>Blue</td>
</tr>
<tr>
<td>7</td>
<td>Brown</td>
</tr>
<tr>
<td>8</td>
<td>Yellow</td>
</tr>
</tbody>
</table>

NOTE: Door and frame should be prepared per the proper hinge template before installing the hinge.

Wire Specifications:

28 Ga. stranded w/PTFE insulation, NEMA HP-3. Each conductor is colored differently for ease of identification.

Electrical Rating:

4 amp continuous @ 24 volts AC or DC, 16 amp pulse for 300 msec. (cycle time not less than 5 sec.), 10 amp pulse for 250 msec. (cycle time not less than 5 sec.)

Location:

The QC Hinge should be located in the second from the bottom hinge preparation on the door and frame.

NOTE: Hinges with up to 8 wires will have an 8 position connector on them. If there are more than 8 and up to 12 wires there will be a 4 position connector in addition to the 8 position connector.

10 Thru 12 Wire

<table>
<thead>
<tr>
<th>Connection Pin</th>
<th>Color Wire</th>
</tr>
</thead>
<tbody>
<tr>
<td>1- #9</td>
<td>Violet</td>
</tr>
<tr>
<td>2- #10</td>
<td>Gray</td>
</tr>
<tr>
<td>3- #11</td>
<td>Fink</td>
</tr>
<tr>
<td>4- #12</td>
<td>Tan</td>
</tr>
</tbody>
</table>
80 Series

HC8800 Rim Exit Device
SARGENT manufactures a fine line of exit devices providing the best combination of durability, simplicity, strength, aesthetics and innovation. The HC8800 device is designed for standard width stile applications on metal doors. The Hurricane Code Hardware has been accepted by Dade County, Florida. It meets the abuse and high wind loads required by South Florida building code. These exits are accepted and approved for use with CURRIES hollow metal doors and McKinney hinges.

8500 Narrow Design Rim Exit Device
SARGENT manufactures a full line of exit devices providing the best combination of simplicity, strength, durability, aesthetics and innovation. The AD8500 Narrow Design Rim Exit Device is designed for narrow stile applications and features a rim bolt for quiet operation and security.

8800 Rim Exit Device
SARGENT manufactures a full line of exit devices providing the best combination of simplicity, strength, durability, aesthetics and innovation. The 8800 series is designed for standard width stile applications on wood and metal doors. This reversible rim exit device sets the industry standard for durability and reliability.

8888 Reversible Rim Exit Device
SARGENT manufactures a full line of exit devices providing the best combination of simplicity, strength, durability, aesthetics and innovation. The 8888 is designed for standard width stile applications on wood and metal doors and has 7 functions determined by the trim function.

8300
SARGENT manufactures a full line of exit devices that provide the best combination of strength, simplicity, aesthetics and innovation. The SARGENT 8300 Series Exit Device is a narrow design, push rail style, mortise lock exit device.

8900 Mortise Lock Exit Device
SARGENT manufactures a full line of exit devices that provide the best combination of simplicity, strength, durability, aesthetics and innovation. 8900 Mortise Lock Exit Device has concealed single point guarded latching for additional security and is designed for standard width stile applications on wood and metal doors.

**WS8900 Mortise Lock Exit Device Windstorm Product**
SARGENT manufactures a full line of exit devices providing the best combination of simplicity, strength, durability, aesthetics and innovation. Florida has the most demanding new codes for windstorm certified doors and SARGENT has the most stringent testing standards. The WS8900 is UL listed to ANSI 250.13 Severe Windstorm and listed on Florida Building Code website.  Surface Vertical Rod

**HC4-8700 Surface Vertical Rod Exit Device**
The HC4-8700 Surface Vertical Rod exit device has been tested to withstand up to 150 psf and is listed in Florida Building Code for Hurricane-resistance.

**8700 Surface Vertical Rod Exit Device**
SARGENT manufactures a full line of exit devices that provide the best combination of simplicity, strength, durability, aesthetics and innovation. The SARGENT 8700 Surface Vertical Rod Exit Device has two point latching (top and bottom of the door) and is adjustable through the center case.

**HC8700 Hurricane Code Surface Vertical Rod Exit Device**
SARGENT manufactures a fine line of exit devices providing the best combination of simplicity, strength, durability, aesthetics and innovation. The Hurricane Code Hardware has been accepted by Dade County, Florida. It meets the abuse and high wind loads required by South Florida building code. These exits are accepted and approved for use with CURRIES hollow metal doors and McKinney hinges.

**PP8700 & PR8700 Center & Top Latch Surface Vertical Rods for Pair of Doors**
SARGENT manufactures a full line of exit devices providing the best combination of simplicity, strength, durability, aesthetics and innovation. The PP8700 & PR8700 offers the security of stainless steel center bolt and two top bolts without bottom rod issues.

**FM8700 Surface Vertical Rod Exit Device**
SARGENT manufactures a full line of exit devices providing the best combination of simplicity, strength, durability, aesthetics and innovation. The SARGENT FM8700 is the only 2-point latching exit device that complies with FEMA 361 and requires no complicated, expensive door prep. Specially machined rail and internal components make the FM8700 sturdier and more robust than standard products.

**80 Series Options (Prefixes)**

**53 - Latchbolt Monitor Switch**
The latch monitor provides true, tamper resistant latch monitoring not just rail movement sensing. The monitor switch is activated when the rail is depressed or there is actual movement of the latch.
55 - Signal Switch (Request to EXIT)
The signal switch monitors the touch bar. Touch bar monitoring may be used to detect egress, sound an alarm, send a signal to a remote location, or de-energize an electromagnetic lock. Ordered as 55 Prefix.

56 - Latch Retraction
SARGENT's Electric Latch Retraction (ELR) exit device is the perfect choice for high traffic egress doors that require access control. This non-handed exit device rail is durable and easy to install. Once retracted, the door functions in a push/pull manner and delivers quiet, smooth operation.

57 - Delayed Egress
The 57-80 Series delayed action exit device will sound a horn at the door to indicate an unauthorized exit and will delay exit for a period of 15 seconds, per NFPA 101 Ordered as 57 Prefix.

58 - Electric Dogging
When the 58-80 Series exit device is energized and the push rail is depressed, it will continuously hold the push rail down and the latch(es) will be held retracted. When the device is de-energized or power is interrupted, the latch(es) will extend.

59 - Electroguard Delayed Egress
The Electroguard is designed for any 80 Series Exit Device which requires delay on egress. When armed using the cylinder in the rail and the push rail is depressed for more than 1 second, a warning horn sounds and the opening remains locked for an additional fifteen seconds. This time delay allows for an appropriate response to the pending violation. At the end of the fifteen second period, the rail is released and functions as a standard exit device, allowing for free egress.

AL - Alarmed Exit
SARGENT’s AL-80 Series Exit Devices are designed for areas requiring a stand-alone alarm on outward swinging doors. This device has an integrated alarm in the push rail to discourage the unauthorized use of emergency exit doors. The alarm inside the rail sounds immediately upon exit. The AL-80 Series is ideal for rear exterior doors, doors leading to a rooftop, or anywhere security is a concern.

BT- Beacon
The Beacon™ device integrates a flashing LED, a laser that produces a conical beam and white noise, followed by voice commands, to create a clear pathway to safety and emergency exit locations. This next generation device creates a clearer pathway to safety during an emergency. It’s the newest addition to the ASSA ABLOY LiteGuide™ family of products. Connected to the building’s alarm system, when activated, Beacon emits a pulse of light and white noise followed by an audible message.

Exit Outside Trim

773/774 Controls
Provides remote means of locking or unlocking a door for authorized entry, access control, security or safety needs when used in conjunction with an 80 Series exit device. All controls require 1/4 amp (.25)
@ 24VDC regulated/filtered power (3510, 3530 Series, 3560) or 24VAC rectified. Rectifier packed with each device for 24VAC operation. If voltage exceeds 26.2 R.M.S. solenoid will be damaged

**775/776 Controls**

Provides remote means of locking or unlocking a door for authorized entry, access control, security or safety needs when used in conjunction with an 80 Series exit device. All controls require 1/4 amp (.25) @ 24VDC regulated/filtered power (3510, 3530 Series, 3560) or 24VAC rectified. Rectifier packed with each device for 24VAC operation. If voltage exceeds 26.2 R.M.S. solenoid will be damaged.

**SARGENT Manufacturing Company**
Phone: 800-727-5477  |  Fax: 888-863-5054

**ASSA ABLOY Door Security Solutions Canada**
Phone: 800-461-3007  |  Fax: 800-461-8989
### Parts List

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>98-2559</td>
<td>TOP RETAINER WITH SCREWS</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>98-2556</td>
<td>BOTTOM RETAINER WITH SCREWS</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>98-2520</td>
<td>LATCH BOLT ASSEMBLY</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>CYLINDER Ø *</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>98-0275</td>
<td>CYLINDER COLLAR *</td>
<td>1</td>
</tr>
<tr>
<td>8</td>
<td>01-1383</td>
<td>SECURITY SCREW #8-32 X 1/2 T15</td>
<td>3</td>
</tr>
</tbody>
</table>

* SPECIFY FINISH
Ø SPECIFIC #41 CYLINDER BY KEYING REQUIREMENTS
Electromechanical 8200 Series Mortise Lock Line

SARGENT 8200 Electromechanical Mortise locks are designed to handle single opening, stand alone applications, or can be readily integrated into sophisticated access control systems. They meet ANSI/BHMA A 156.13 Grade 1 requirements, are UL listed on fire doors, and satisfy industry standards for operating temperature, shock and fire hazard.

Maximum Flexibility
- Aesthetic design. Many escutcheon and lever styles available to match a wide range of styles.
- Versatile. Offered for door thickness ranging from 1-3/5" (35mm) to 6" (152mm).

Strength & Security
- Heavy duty wrought steel hubs and high carbon steel spring cartridge provide superior strength and cycle life.
- Latchbolt is stainless steel with 3/4" projection one piece anti-friction reversible latch.
- Through-bolted lever trim for increased security.
- Torx® and spanner screws.
- Security key systems available (Signature, Keso, KesoF1, and XC).

Certification Compliance
- ANSI/BHMA certified.
- Meets A117.1 Accessibility Code.
- UL and UL listed to Canadian safety standards.
- Meets positive pressure requirements UL 10C and UBC 7-2 (1997).
- California State Reference Code.
Electromechanical 8200 Series Mortise Lock Line Components

Options

LX: Latchbolt Monitor

RX: Request to Enter/Exit - Monitors inside lever rotation

Functions

71: Electromechanical
    Fail Secure

72: Electromechanical
    Fail Safe
Harmony Mortise Locks Line

The Harmony Series Mortise Lock product integrates the SARGENT 8200 Series Grade 1 mortise lock into an existing Wiegand compatible access control system. The Harmony Mortise lock monitors the door position, producing SARGENT "Latched and Secure" monitoring. This technology incorporates the door monitoring and latchbolt position in series, ensuring that the door is closed and the latchbolt is extended. The Harmony Series Mortise Lock product has a clean, crisp design with superior lock strength that is unsurpassed.

Sophisticated Access Control Solution
- Consolidates all components into the lock
  - Incorporates card reader, Door Position Switch (DPS) and REX signaling
  - Eliminates reader interface module
  - Lockdown capable
- 50% faster installation time, lower installed cost and reduced disruption
  - Requires only one cable run from the lock to the access control panel
  - Maintains architectural integrity around the door
  - Fewer discrete components to install than traditional access control
- Open architecture platform is compatible with all popular access control systems
- Supports HID 125 kHz proximity credentials, including Corporate 1000, to match your card format
- Direct Wiegand output eliminates need for interface panel
- No special credentials needed; works with your facility’s prox cards
- Fewer terminations result in improved reliability
- Aesthetically complemented by SARGENT Studio Collection and Coastal Series levers

Features of Harmony Series Products
- A hard-wired platform for use with existing Wiegand compatible access control systems
- Centralized control of all locks using customer’s existing access control system
- For use on exterior doors with appropriate weatherseal gasket
- A multi-colored LED indicates card read activity and can be manually controlled by access control panel
- Audible beep sounds with card reader
- UL Listed for fire doors available (12- for exit devices)
- Listed to UL 294 (Access Control System Units). UL 294 is a U.S. only system level certification. For information regarding access control system compliance, please call 800-810-WIRE.
- UL Listed to Canadian safety standards
- Monitoring is based on lock type selected
- Electrolynx
- Solenoid Controlled with the option of Fail Safe or Fail Secure

Mechanical Features
- Certified ANSI/BHMA Grade 1
- Fail Safe or Fail Secure option
- 3/4" stainless steel, anti-friction reversible latch
- For 1-3/4" (44mm) thick door standard. Consult factory for other thicknesses
- 1" hardened stainless steel deadbolt
- Stainless steel non-handed deadlocking latch
- Key override requires a #43 cylinder standard
- Handed lockbody, easily field reversible without opening lock body
- Lever trim through-bolted for increased security and durability
Harmony Mortise Locks Line Components

Trim

L Lever LN Rose

Functions

82271: Fail Secure - Entry Lock with Cylinder Override (No Deadbolt)
82281: Fail Secure - Entry Lock with Deadbolt and Cylinder Override
82285: Fail Secure - Entry Lock with Deadbolt

Notes

The University uses a proprietary version of the Harmony Lock called the Roll Tide Lock. This is purchased through our security vendor Vision Security Technologies.
CIRCULAR PRESS SWITCH

PLAIN STAINLESS STEEL
4 1/2" DIAMETER

PRESS TO OPEN PLUS LOGO
STAINLESS STEEL
4 1/2" DIAMETER
(HC PTO)

PRESS TO OPEN
STAINLESS STEEL
4 1/2" DIAMETER
(PTO)

LOGO
STAINLESS STEEL
4 1/2" DIAMETER
(HC)

3/16" MIN. CLEARANCE
INSTALL WITH MOUNTING
PLATE FLUSH AGAINST
FINISHED WALL
MOUNTING PLATE
PUSH PLATE
BACK PLATE OR SOLID
MOUNTING SUPPORT
RECOMMENDED FOR
JUNCTION BOX

HARDWIRE

1. (2) #18 LOW VOLTAGE WIRES (OR PER LOCAL
CODE) REQUIRED FROM OPERATOR TO EACH PUSH
PLATE
BY ELEC. CONTR.
2. JUNCTION BOX BY ELEC. CONTR.

INSTALL PLASTIC ENCLOSURE
FLUSH AGAINST FINISHED WALL
PUSH PLATE
PLASTIC ENCLOSURE

BATTERY (RADIO CONTROLLED) OR

1. PRESS SWITCH IS MOUNTED TO A SQUARE
SURFACE BOX (6" X 6" X 2" DEEP).
SQUARE PRESS SWITCH

C-8
PRESS TO OPEN
ALUMINUM WALL PLATE
4" X 4"
5" X 5" BACK PLATE
(PTO)

PLAIN
STAINLESS STEEL
4 1/2" X 4 1/2"

C-8
PRESS TO OPEN
ALUMINUM WALL PLATE
4" X 4"
5" X 5" BACK PLATE
(HC)

PRESS TO OPEN
STAINLESS STEEL
4 1/2" X 4 1/2" (PTO)

VINYL PUSH PAD
4" X 4"
(BACKING PLATE AVAILABLE IN CLEAR OR BRONZE)

PRESS TO OPEN PLUS LOGO
STAINLESS STEEL
4 1/2" X 4 1/2"
(HC PTO)

LOGO
STAINLESS STEEL
4 1/2" X 4 1/2"
(HC)

HARDWIRE
1. (2) #18 LOW VOLTAGE WIRES (OR PER LOCAL CODE)
REQUIRED FROM OPERATOR TO EACH PUSH PLATE BY ELEC. CONTR.

3/16" MIN. CLEARANCE
INSTALL WITH MOUNTING PLATE FLUSH AGAINST FINISHED WALL

PUSH PLATE
BACK PLATE OR SOLID MOUNTING SUPPORT RECOMMENDED FOR JUNCTION BOX
MOUNTING PLATE
**Product Name**
TDM
Universal Time Delay Module

**Manufacturer**
MS SEDCO
8701 Castle Park Drive
Indianapolis, IN 46256
Phone: (800) 842-2545
www.msedco.com

**Product Description**

**BASIC USE**
The TDM is a multipurpose microprocessor based timing module that can be used for a variety of applications. Its unique design and open architecture allows the TDM to be used in any type of application that requires timing control of up to two outputs with up to four inputs.

Common Applications include:
- Using the TDM to provide a simple time delay of 0-99 seconds.
- Using the TDM as a make/break relay to eliminate mechanical binding of the electrical locking mechanism on an automatic door. The make relay can even be configured as a wet output to directly apply power to the electric locking device.
- Using the TDM to sequence vestibule doors. One unit is capable of sequencing vestibule doors from both
directions.

The four inputs on the TDM allow sequencing or independent operation of the two outputs.
- Input 1 will sequence Output 1 then 2.
- Input 2 will sequence Output 2 then 1.
- Input 3 will operate Output 1 independently.
- Input 4 will operate Output 2 independently.

Both outputs on the TDM are programmable for "on time" duration as well as the delay time between the two outputs from 0 to 99 seconds.

**Technical Data**

**SPECIFICATIONS**

- **Model**: TDM
- **Power**: 12 to 24 VAC or DC
- **Power Consumption**: 2W Maximum
- **Output Contact**: Form C, Rated At 3 Amps
- **Temperature**: -22°F to 158°F (-30°C to 70°C)
- **Color**: Flat Black
- **Enclosure**: ABS Plastic
- **Weight**: 0.25 lb.
- **Physical Size**: 4 3/4"L x 2 1/4"W x 3/4"H

**Special Functions**

- **Wet Output**: Allows installer to apply power directly to an electric locking device (eliminating need for separate transformer)

**Pushbutton Fault Indicator**
- Provides valuable diagnostic information to installer

**Preprogrammable**
- Easily set-up on site or in advance using the LED Display
- Settings are stored in memory so TDM remembers settings (even after power failure)

**APPLICABLE STANDARDS**
American National Standards Institute (ANSI) - Building Hardware Manufacturers Association (BHMA) - ANSI/BHMA A156.10 & A156.19

**Installation**

**SETUP AND ADJUSTMENT**
The TDM is easily mounted in the door header or control box. The LED Display allows for ease in programming. The installer uses the Program Mode Button to adjust each of the four time delays and select the input and output settings.

**Availability & Cost**

**AVAILABILITY**
Available internationally from manufacturer's authorized distributors; contact MS SEDCO for the location of nearest distributor.

**COST**
Cost information on MS SEDCO products is available from the manufacturer's authorized distributor.
Warranty
MS SEDCO, Inc. guarantees this product to be free from manufacturing defects for one year from date of installation. Unless MS SEDCO is notified of the date of installation, the warranty will be in effect for one year from the date of shipment from our factory. If, during the first year, this product fails to operate and has not been tampered with or abused, the unit can be returned prepaid to the factory and be repaired free of charge. After one year, the unit will be repaired for a nominal service charge. Limited warranty is in lieu of all other warranties, expressed or implied, including any implied warrantability of merchantability. No representative or person is authorized to assume for MS SEDCO any other liability in connection with the sale of our products. All warranties are limited to the duration of this written limited warranty. In no event shall MS SEDCO be liable for any special, incidental, consequential or other damage arising from any unclaimed breach of warranty as to its products or services.

Maintenance
MS SEDCO recommends that all maintenance and adjustments be performed by an AAADM Certified Technician.

Technical Services
MS SEDCO's staff of factory trained sales and service personnel offer design assistance and technical support. Local distributors are also available to assist in selecting appropriate devices for specific uses and to provide onsite installation.
The 9500 series Genesis™ continues to set the standard for fire-rated surface mounted electric strikes. All components are completely encased within its 3/4" thick stainless steel housing, requiring no cuts to the jamb. Designed for use with rim exit devices, the 9500 series is field selectable for either fail secure or fail safe operation and can be operated with either 12 or 24 Volts DC.

### Specifications
- UL 10C fire-rated, 3 hour (fail secure only)
- CAN4-S104 (ULC-S104) fire door conformant
- WHI fire door listed
- UL1034, burglary-resistant listed
- ANSI/BHMA A156.31, Grade 1 (#E09371, #E09372, #E09373)
- NFPA-252 fire door conformant
- ASTM-E152 fire door conformant
- California Fire Marshall listed
- NFPA 80-07 compliant
- Patented design

### Frame Application
- Metal
- Wood

### Electrical
- .45 Amps @ 12VDC continuous duty
- .25 Amps @ 24VDC continuous duty

### 3 Hour Fire-Rated
Products with a fire rating have been evaluated and listed to UL10B, "Fire Test of Door Assemblies" and UL10C, "Positive Pressure Fire Tests with Door Assemblies". Products are fire-rated from 30 minutes to three hours. The 9500 series has a three-hour fire rating, the maximum rating required of any swinging type fire door.
**Standard Features**
- Completely surface mounted
- Stainless steel construction
- Tamper resistant
- Static strength 1,500 lbs.
- Dynamic strength 70 ft-lbs.
- Endurance 1,000,000 cycles
- Field selectable fail safe/fail secure
- Dual voltage 12 or 24 VDC
- Horizontal adjustment
- Non-handed
- Internally mounted solenoid
- Accommodates up to 3/4" pullman latch
- Five-year limited warranty

**Optional Features**
- LBM - Latchbolt monitor
- LBSM - Latchbolt strike monitor

**Accessories**
- **9400/9500/9600-108** - Spacer plate
- **SMB** - Surface mounting box
- **2001M** - Plug-in bridge rectifier
- **2004M** - ElectroLynx® adapter
- **2005M3** - SMART Pac III™
- **2006M** - Plug-in buzzer

**Finishes**
- **630** - Satin stainless steel
- **605** - Bright brass
- **606** - Satin brass
- **612** - Satin bronze
- **613** - Bronze toned
- **629** - Bright stainless steel
The 1006 series is the strongest and most versatile electric strike available. It meets or exceeds every standard developed for electric strikes. With 27 faceplate options, the 1006 can accommodate virtually every type of lockset on the market. The 1006 features a sleek keeper and a 100% stainless steel cast case. Tested to exceed 3,000 lbs. of static strength, 350 ft. lbs. of dynamic strength and factory tested to exceed 1,000,000 cycles of operation, the 1006 is in a class of its own.

**Specifications**
- UL 10 fire-rated, 3 hour single door (fail secure only)
- UL 10C fire-rated, 1-1/2 hour double door (fail secure only)
- CAN4-S104(ULC-S104) fire door conformant
- ANSI A250.13-2003 windstorm listed
- UL 1034, burglary-resistant listed
- ANSI/BHMA A156.31, Grade 1
- NFPA-252 fire door conformant
- ASTM-E152 fire door conformant
- MEA New York City accepted
- Florida Building Code approved
- Patent design

**Frame Application**
- Metal
- Wood

**Electrical**
- .45 Amps @ 12VDC continuous duty
- .25 Amps @ 24VDC continuous duty

We offer several types of faceplate options to accommodate your application. Faceplate options sold separately (see pages 6-11).
**Standard Features**
- Stainless steel construction
- Tamper resistant
- Static strength 3,070 lbs. (fail secure)
- Dynamic strength 350 ft-lbs. (fail secure)
- Endurance 1,000,000 cycles
- Fail secure (standard)
- Dual voltage 12VDC or 24VDC continuous duty
- Non-handed
- Internally mounted solenoid
- Accommodates up to 1” deadbolt
- Plug-in connector
- Full keeper shims for horizontal adjustment
- Trim enhancer
- Five-year limited warranty

**Optional Features**
- Fail Safe
- LBM - Latchbolt monitor
- LBSM - Latchbolt strike monitor
- 27 interchangeable faceplate options

*Monitor Switches may not work with all faceplate options (see pages 6-11)*

**Accessories**
- 1000-102 - Rain guard
- 1006-103 - Full keeper shims
- 1000-104 - Lip extension trim adapter
- 1006-105 - Trim enhancer BLK (goof plate)
- 1006-109 - Trim adapter
- 1000-110 - Replacement strike plate
- 1000-130 - KD filler plate
- 150 - Strike latch guard
- 154-MTK - Metal template kit
- 2001M - Plug-in bridge rectifier
- 2004M - ElectroLynx® adapter
- 2005M3 - SMART Pac III™
- 2006M - Plug-in buzzer

**Finishes**
- 630 - Satin stainless steel
- 605 - Bright brass
- 606 - Satin brass
- 612 - Satin bronze
- 613 - Bronze toned
- 629 - Bright stainless steel
- BLK - Black
1006 Series Faceplate Options

**Operation:** After releasing the latchbolt, the keeper returns to the locked position.

### J Option
**For use with:** Cylindrical locksets up to 3/4" throw and all locksets with center-lined bolts.
- ANSI/BHMA Numbers: #E09321, #E09322, #E09323

*4 1/4" x 1 1/4"*

**Specialty**

Operation: After releasing the latchbolt or deadbolt, the keeper is held open and recaptures the bolt when the door is closed. Not LBML/BLSM compatible.

### E Option
**For use with:** Corbin/Russwin Security Bolt, Weiserbolt, and normally extended 1" tubular deadbolts.
- ANSI/BHMA Numbers: #E09391, #E09392, #E09393

*4 1/4" x 1 1/4"*

### K Option
**For use with:** Mortise locksets with a deadlatch positioned above the latchbolt.
**Compatible locksets:** Baldwin, Marks, PDQ, Others
- ANSI/BHMA Numbers: #E09321, #E09322, #E09323

*4 1/4" x 1 1/4"*

### KD Option
**For use with:** Mortise locksets with a deadlatch positioned above the latchbolt.
**Compatible locksets:** Dorma 9500, Jackson, Sargent (7700 & 8100), Schlage, Yale (8700)
- ANSI/BHMA Numbers: #E09321, #E09322, #E09323

*4 1/4" x 1 1/4"*

### KM Option
**For use with:** Mortise locksets with a deadlatch positioned below the latchbolt.
**Compatible locksets:** Accurate, Arrow, Best*, Corbin/Russwin, Falcon (1992 M Series), Sargent (7800, 8200 & 9200 series), Yale (8800)
*For Best 45H & 47H deadlatch below, and Best 34H - 37H deadlatch above.
- ANSI/BHMA Numbers: #E09321, #E09322, #E09323

*4 1/4" x 1 1/4"*
Operation: The deadbolt is retracted during traffic hours. The latchbolt is released by the keeper. The keeper returns to the locked position. If the deadbolt is extended, the keeper will not recapture it.

**N Option**

**For use with:** Mortise locksets with a deadbolt used for night-latch function only.

**Compatible locksets:** Accurate, Baldwin, Marks, Omnia, PDQ, Schlage, Others

- ANSI/BHMA Numbers: #E09391, #E09392, #E09393, #E09331, #E09332, #E09333

**ND Option**

**For use with:** Mortise locksets with a deadbolt used for night-latch function only.

**Compatible locksets:** Sargent (7700 & 8100 series), Yale (8700)

- ANSI/BHMA Numbers: #E09391, #E09392, #E09393, #E09331, #E09332, #E09333

**NM Option**

**For use with:** Mortise locksets with a deadlatch positioned below the latchbolt, where a deadbolt is used for night-latch function only.

**Compatible locksets:** Arrow, Best (45H & 47H and 34H-37H), Corbin/Russwin, Falcon, Sargent (7800, 8200 & 9200 series)

- ANSI/BHMA Numbers: #E09391, #E09392, #E09393, #E09331, #E09332, #E09333

Operation: Latchbolt and deadbolt are released by a single keeper. The keeper is held open to recapture the latchbolt and the deadbolt when the door is closed. Not LBM/LBSM compatible.

**A Option**

**For use with:** Mortise locksets with a normally extended 1" deadbolt without a deadlatch.

**Compatible locksets:** Baldwin, Marks, Omnia, PDQ, Schlage, Others

- ANSI/BHMA Numbers: #E09391, #E09392, #E09393, #E09331, #E09332, #E09333

**AD Option**

**For use with:** Mortise locksets with a normally extended 1" deadbolt without a deadlatch.

**Compatible locksets:** Sargent (7700 & 8100 series), Yale (8700)

- ANSI/BHMA Numbers: #E09391, #E09392, #E09393, #E09331, #E09332, #E09333

**AM Option**

**For use with:** Mortise locksets with a normally extended 1" deadbolt and a deadlatch positioned below the latchbolt.

**Compatible locksets:** Accurate, Arrow, Best (45H & 47H and 34H-37H), Corbin/Russwin, Falcon, Sargent (7800, 8200, & 9200 series), Yale (8800)

- ANSI/BHMA Numbers: #E09391, #E09392, #E09393, #E09331, #E09332, #E09333
**1006 Series Faceplate Options**

**Operation:** Latchbolt and deadbolt are released by a single keeper. The keeper is held open to recapture the latchbolt and deadbolt, and the deadlatch is engaged when the door is closed. Not LBM/LBSM compatible.

**T Option**
- **For use with:** Mortise locksets with a normally extended 1” deadbolt and a center-lined deadlatch.
- **Compatible locksets:** Accurate, Arrow, Baldwin, Marks, Omnia, PDQ, Schlage, Others
  - ANSI/BHMA Numbers: #E09391, #E09392, #E09393, #E09331, #E09332, #E09333

**TD Option**
- **For use with:** Mortise locksets with a normally extended 1” deadbolt and a center-lined deadlatch.
- **Compatible locksets:** Sargent (7700 & 8100 series), Yale (8700)
  - ANSI/BHMA Numbers: #E09391, #E09392, #E09393, #E09331, #E09332, #E09333

**Operation:** Lockout feature - the electric strike will not release when the deadbolt is extended. The deadbolt retracts during traffic hours. The keeper releases the latchbolt. The keeper returns to the locked position. Not LBM/LBSM compatible.

**H Option**
- **For use with:** Mortise locksets with a 1” deadbolt without a deadlatch. Strike will not release when deadbolt is extended.
- **Compatible locksets:** Baldwin, Marks, Omnia, PDQ, Others
  - ANSI/BHMA Numbers: #E09391, #E09392, #E09393, #E09331, #E09332, #E09333

**HD Option**
- **For use with:** Mortise locksets with a 1” deadbolt without a deadlatch. Strike will not release when deadbolt is extended.
- **Compatible locksets:** Sargent (7700 & 8100 series), Yale (8700)
  - ANSI/BHMA Numbers: #E09391, #E09392, #E09393, #E09331, #E09332, #E09333

**HM Option**
- **For use with:** Mortise locksets with a 1” deadbolt with a deadlatch positioned below the latchbolt. Strike will not release when deadbolt is extended.
- **Compatible locksets:** Accurate, Arrow, Best (45H & 47H and 34H-37H), Corbin/Russwin, Falcon, Sargent (7800, 8200, & 9200 series), Yale (8800)
  - ANSI/BHMA Numbers: #E09391, #E09392, #E09393, #E09331, #E09332, #E09333

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ASSA ABLOY, the global leader in door opening solutions
Operation: Lockout feature - the electric strike will not release when the deadbolt is extended. The deadbolt is retracted during traffic hours. The latchbolt is released by the keeper. The keeper returns to the locked position. Note: For the ASSA model 504, the top latchbolt is released by the keeper. The keeper returns to the locked position. Not LBM/LBSM compatible.

**HT Option**

**For use with:** ASSA model 504 mortise lockset with two latchbolts and a center deadlatch. Deadlatch or mortise locksets with a 1" deadbolt and a center-lined deadlatch. Strike will not release when deadbolt is extended.

**Compatible locksets:** ASSA

ANSI/BHMA Numbers: #E09391, #E09392, #E09393, #E09331, #E09332, #E09333

**HTD Option**

**For use with:** Mortise locksets with a 1" deadbolt and a center-lined deadlatch. Strike will not release when deadbolt is extended.

**Compatible locksets:** Sargent (7700 & 8100 series), Yale (8700)

ANSI/BHMA Numbers: #E09391, #E09392, #E09393, #E09331, #E09332, #E09333

Operation: The hookbolt is released by the keeper. The keeper is held open to recapture the hookbolt when the door is closed. Not LBM/LBSM compatible.

**R Option**

**For use with:** A hookbolt up to 1" throw.

**Compatible locksets:** Adams Rite, Others

ANSI/BHMA Numbers: #E09391, #E09392, #E09393, #E09331, #E09332, #E09333

Operation: After releasing the latchbolt, the keeper returns to the locked position.

**Z Option**

**For use with:** Unit and mono locks.

**Compatible locksets:** Unican, Sargent, Corbin-Russwin

ANSI/BHMA Numbers: #E09321, #E09322, #E09323
1006 Series Faceplate Options

Operation: After releasing the latchbolt, the keeper returns to the locked position.

J-2 Option
For use with: Cylindrical locksets with up to a 3/4" throw, in wood frame applications.
ANSI/BHMA Numbers: #E09321, #E09322, #E09323

K-2 Option
For use with: Mortise locksets with a deadlatch positioned above the latchbolt, in wood frame applications.
Compatible locksets: Baldwin, Marks, PDQ, Others
ANSI/BHMA Numbers: #E09321, #E09322, #E09323

KM-2 Option
For use with: Mortise locksets with a deadlatch positioned below the latchbolt, in wood frame applications.
Compatible locksets: Accurate, Arrow, Best*, Corbin/Russwin, Falcon (1992 M Series), Sargent (7800, 8200 & 9200 series), Yale (8800)
*For Best 45H & 47H deadlatch below, and Best 34H - 37H deadlatch above.
ANSI/BHMA Numbers: #E09321, #E09322, #E09323

N-2 Option
For use with: Mortise locksets where the deadbolt is used for night-latch function only, in wood frame applications.
Compatible locksets: Accurate, Arrow, Baldwin, Marks, Omnia, PDQ, Schlage, Yale (8700), Others
ANSI/BHMA Numbers: #E09391, #E09392, #E09393, #E09331, #E09332, #E09333

Operation: The deadbolt is retracted during traffic hours. The latchbolt is released by the keeper. The keeper returns to the locked position. If the deadbolt is extended the keeper will not recapture it.
**T-2 Option**

For use with: Mortise locksets with a normally extended 1” deadbolt and a center-lined deadlatch, in wood frame applications.

Compatible locksets: Accurate, Arrow, Baldwin, Marks, Omnia, PDQ, Schlage, Yale (8700), Others

ANSI/BHMA Numbers: #E09391, #E09392, #E09393, #E09331, #E09332, #E09333

**A-2 Option**

For use with: Mortise locksets with a normally extended 1” deadbolt without a deadlatch, in wood frame applications.

Compatible locksets: Accurate, Baldwin, Marks, Omnia, PDQ, Schlage, Yale, Others

ANSI/BHMA Numbers: #E09391, #E09392, #E09393, #E09331, #E09332, #E09333

**H-2 Option**

For use with: Mortise locksets with a 1” deadbolt without a deadlatch, in wood frame applications. Strike will not release when deadbolt is extended.

Compatible locksets: Accurate, Arrow, Baldwin, Marks, Omnia, PDQ, Yale (8700)

ANSI/BHMA Numbers: #E09391, #E09392, #E09393, #E09331, #E09332, #E09333
PUSH BUTTON - MODEL PB2

Features

- SPDT 10 amp contacts (DPDT available, see How to Order section)
- Large 2” diagonal flush button
- Momentary operation
- 12/24 VDC LED button illumintaion and a red LED (illuminated version only)
- Stainless steel single gang plate (back box included on illuminated versions)

Operating Temperatures
0 to 43°C [32 to 110°F]

Options
- H – Handicap
- E – Economy non-illuminated
- Z – DPDT
PUSH BUTTON - MODEL PB2 (cont’d)

How to Order

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Architectural Specifications

A. The Push Button shall be produced by an ISO 9001 certified manufacturer.

B. The Push Button shall be a 2” by 2” industrial grade button with protective cowling.

C. The Button shall be labeled ‘EXIT” and shall be green back lit using an incandescent bulb. A separate red LED shall be provided as an additional indicator.

D. The LED’s shall operate on 12 or 24 VDC (field selectable).

E. The switch shall be SPDT and rated at 10 Amps at 12 or 24 VDC.

F. The push button shall be mounted on a Stainless Steel - 630/US32D single gang faceplate.

G. The switch shall be available in momentary action in both illuminated and non-illuminated versions.
#3006 SERIES FREE-EGRESS ELECTROMAGNETIC LOCK MOUNTING and OPERATING INSTRUCTIONS

PLEASE READ BEFORE ATTEMPTING INSTALLATIONS

GENERAL MOUNTING INFORMATION
Attention to detail, familiarizing yourself with the actual door conditions and the following instructions will prove invaluable as you begin installation of this high quality lock. The lock must mount rigidly to the underside of the frame header and against the vertical jamb located opposite the hinge side jamb. The armature is designed to pivot slightly when mounted. The supplied hardware is for a standard 1-3/4" thick door.

NOTE: This lock coil position may be changed to match the hand of the door, if required. Refer to page 3 for instructions on how to convert the hand of this lock.

NOTE: If this lock is supplied with the DSM feature, be certain to mount the armature with the DSM block opposite the access cover.

HANDLING:
The Electromagnetic lock and armature are ruggedly constructed and designed to provide years of trouble free service, but care must be taken during installation and actual use that the PIR, lock face and armature face are free of dirt, rust, burrs, paint, or any other obstruction which may interfere with the lock and armature making good contact. NEVER TOUCH THE PIR LENS!

MAINTENANCE:
To insure peak lock performance, clean the lock and armature face with a mild detergent and a clean soft cloth, then apply a light coat of rust inhibitor such as WD40 to protect these surfaces. This need only be done when dirt buildup is noticed. DO NOT APPLY CLEANERS OR LUBRICATION TO THE PIR LENS.

3006 THEORY OF OPERATION
The door is normally closed and latched by the existing mechanical door hardware and also magnetically secured by the 3006. When an individual attempting to egress approaches the door, the built-in Passive Infrared (PIR) Egress Sensor detects their presence and immediately releases the magnetic lock. Power to the 3006 may be interrupted as a means of manually unlocking the 3006 via a remote access or egress control device.

The PIR Sensor has proprietary electronics allowing it to remain active for up to one hour with no power applied. This eliminates warm up time normally required after a power interruption. The 3006 Free egress electromagnetic lock, when interfaced with a request to exit button, complies with the code requirement specified in NFPA101 "Access Controlled Doors".

DynaLock Corp. 705 Emmett Street P.O. Box 2728 Bristol, Ct 06011-2728 Phone (860)582-4761 Fax (860)585-0338
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The mounting, alignment and electronic connections described on the following pages should be performed in the order shown. The basic steps and information are on the pages indicated below:

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GENERAL INFORMATION ON THE PIR SENSOR

CAUTION: When handling the 3006, NEVER TOUCH THE PIR LENS!

PIR detectors are sensitive to changes in infrared energy caused by an object moving across a sensors field of view. Detection depends on the difference between the infrared energy transmitted by the moving object and the temperature of background objects. It is recommended that the 3006 NOT be installed in the following locations:

☞ Outdoors.
☞ Where the PIR sensor face is exposed to direct sunlight.
☞ Locations which are subjected to rapid temperature changes.
☞ Locations which are subjected to extreme vibration.
☞ Where push carts or similar objects come before the person entering the PIR’s detection path.
☞ Areas where ambient temperature is near surface body temperature (85 - 95 degrees F)

The 3006's PIR Sensor is manufactured with a state-of-the-art detector, incorporating special detection and rejection features. Below are some of these features:

☞ Single step detection.
☞ RF immunity up to 1000 MHz.
☞ Light rejection filter to reject visible light variations.
CONVERTING HAND of LOCK

The hand of the 3006 lock may be changed to match RHRB or LHRB outswinging doors. Locks are shipped as RHRB style shown below. If your installation requires a LHRB lock continue with the following instructions.

A. Remove the access and end covers. Using the 1/8" ball end hex wrench provided, loosen both housing set screws approx. 3 turns. (DO NOT REMOVE FROM HOUSING).

B. Slide "FasTrak" off the housing. Remove the 3 Philips head coil mounting screws exposed and 3 located on the housing bottom. Carefully remove coil assembly (DO NOT PULL ON THE COIL WIRES).

C. Rotate the coil assembly 180 Degrees and re-install it with the inactive end against the right coil stop. Re-install the 6 coil mounting screws where threaded holes are visible.

USING THE TEMPLATE

1. Use the proper side of the supplied template to accomodate the hand of the door and lock.

2. Fold the template on the dotted line to form a 90 degree angle. Scoring the template with a straight edge and a screwdriver will make it fold easier. With the door in the fully closed position, place the template against the header and door with one edge of the template against the vertical lock jamb. Use tape to hold the template onto the frame.

3. Transfer all holes locations to both door and header.

4. Proceed to page 4 & 5 for Armature and Lock Mounting Instructions.
Prepare the door for ARMATURE MOUNTING

From the three illustrations below select one that resembles your door type, and follow the instructions for the armature screw mounting hole. (See Template).

**GLASS AND ALUMINUM OR HOLLOW METAL DOOR**

Drill an 11/32" diameter hole through door. From sex nut side only enlarge the 11/32" hole to 21/32" diameter.

**SOLID CORE DOOR**

Drill an 11/32" diameter hole through door. From sex nut side only drill 1/2" diameter hole to 1" depth.

**REINFORCED DOOR**

Drill an 17/64" diameter hole and tap for 5/16"-18 thread

MOUNTING the ARMATURE to the door

Locate the 2 anti-spin pins from the armature screw pack. Place the armature face-down on a soft surface (ie; the shipping carton) and drive the 3/16" dia. anti-spin pins into the 2 holes provided. Refer to illustrations above to verify the correct assembly of mounting hardware and mount the armature to the door. The center screw should be finger tight plus 1/8" to 1/4" turn with Hex wrench. Failure to properly secure an armature to the door could result in serious injury or security breach.
MOUNTING THE "FASTRAK" AND HOUSING

1. If you haven't done so yet remove the FasTrak mounting plate. Refer to the exploded view, top of page 4 and the following. Remove the electronics cover secured with the four snake eye anti-tamper # 6-32 screws. Remove the end and access covers each secured with a # 8-32 philips screw. Loosen the 1/4-28 set screws in the upper inside corner of each end of the housing using the 1/8" ball end allen wrench supplied. Remove the FasTrak mounting plate.

2. Referring to the Template, drill two 1/8" dia. lock mounting holes and one 9/16" wiring hole in the header where indicated.

3. Place the "FasTrak" against the header with the counter-sunk slots visible, and the tabs facing the door. Using a screwgun or electric drill with a philips bit, attach the "FasTrak" to the header at both slotted locations with the self tapping screws provided. Tighten the screws just snug enough to allow for final adjustment.

4. Temporarily mount the lock to the "FasTrak" by offsetting the lock one inch, tipping the front of the lock down engage the rear flange, rotate the lock up to vertical, and slide into position. Close and latch the door. Check that the armature and lock make full contact. If any adjustment is required, gently tap the housing with a soft rubber mallet until full contact is achieved, be careful not to damage the electronics circuit board. The head of the armature mounting screw must not project beyond the face of the armature. Open the door, remove the lock from the "FasTrak" and tighten both adjustment screws. Drive the remaining three screws into the header using the FasTrak as the template. Screw heads must not project above the "FasTrak".

5. Re-install the lock on the "FasTrak". Slotted wiring holes will allow the housing to be installed without interference. Using the 1/8” ball end wrench firmly tighten both 1/4-28 housing set screws and re-install the end and access covers.

page 5
3006 TERMINAL STRIP DESCRIPTION

PINS 1,2 POWER INPUT, 12 or 24 volts AC/DC, Selectable through a jumper setting. The current requirement is .70 amps for 12 volts and .4 amps for 24 volts.

PINS 3,4 ACCESS CONTROL INPUT. Momentarily opening a NORMALLY CLOSED DRY CONTACT will release the 3006. The relock time is adjustable from 2-10 seconds.

PINS 5,6 EXTERNAL EGRESS DEVICES INPUT, Momentarily opening a NORMALLY CLOSED DRY CONTACT will release the 3006. The 3006 will remain unlocked for 35 seconds. An on board jumper will allow the relock time delay to be adjustable from 2-80 seconds.

PINS 7,8 SENSOR DISABLE INPUT, A contact closure allows the 3006 to release only by an external access or egress device. The PIR will stay disabled as long as the contact closure is across pins 7 and 8. Once the closure is removed the PIR will be activated immediately, no warm up time. This input is designed to allow the 3006 to be a free-egress lock for a period of time during the day and a regular mag-lock at night. Typically, this function is controlled by an external time clock or similar control device.

PINS 9,10,11 DSM MONITOR OUTPUT (DOOR STATUS MONITOR) (optional). Pin 9 is normally closed, 10 is common and 11 is normally opened. The contacts change state when the door is opened. Contact Ratings 0.5 Amp @ 24 VAC

PINS 12,13,14 REX OUTPUT, pin 12 is normally closed, 13 is common and 14 is normally opened. The state will change when the 3006 is unlocked, and will remain in that state for 1-30 seconds past relock. This output may be used for external alarm shunting. Contact Rating 1 Amp @ 24 VAC

PINS 15,16,17 DYNASTAT (BOND) MONITOR OUTPUT, (optional) pin 15 is normally closed, 16 is common and 17 is normally open. The state will change when the lock coil is turned off by the PIR, Access Control Input, External Egress Inputs or Power Loss. This option is used in security applications to monitor the secure/not secure conditions of the lock. Contact Ratings 1 Amp @ 24 VAC

PINS 18,19 ANTI-TAMPER OUTPUT. This option provides normally open or normally closed contacts, selectable thru a jumper. Removal of the electronic cover will change the state of the contacts. Contact Ratings 0.5 Amp @ 24 VAC

page 6
3006 CONTROLS AND PARTS LOCATIONS

A. VOLTAGE SELECTION JUMPERS. Selects operating voltage of the lock coil. See above for jumper location.

B. DOOR STATUS MONITOR INPUT (DSM) (OPTIONAL). Input connector for the DSM switch.

C. DYNASTAT (BOND) SENSOR (OPTIONAL). The bond sensor from the lock coil is connected at this point, for a LHRB lock. Two conductor white harness.

D. LED CONNECTOR. Allows the installer to disconnect the Led/Electronic cover from the circuit board.

E. ACCESS CONTROL & PIR RELOCK TIMER. Adjusts the relock time delay from 2-10 seconds. Turn pot clockwise to increase time delay.

F. EXTERNAL EGRESS JUMPER. Selects between a fixed 35 seconds or an adjustable delay of 2-80 seconds.

G. EGRESS CONTROL RELOCK TIMER. Adjusts the relock time delay from 2-80 seconds when the external egress jumper is in the adjustable position (See F). Turn pot clockwise to increase time delay.

H. REX OUTPUT TIMER CONTACTS (ALARM SHUNT). Adjusts the time delay of the alarm shunt relay contacts 2-30 seconds past relock. Turn pot clockwise to increase time delay.

I. DYNASTAT (BOND) SENSOR (OPTIONAL). The bond sensor from the lock coil is connected at this point for a RHRB lock.

J. ANTI-TAMPER (ATS) SELECTION JUMPER (OPTIONAL). Changes the ATS option from Normally Open to Normally Closed contact output.

RED MARKING DOT
Indicates the Front of the sensor assembly and must face the interior regardless of adjustment.

page 7
ADJUSTING THE PIR SENSOR

The PIR SENSOR can be adjusted to produce a variety of detection patterns. Figure 1.1 shows an approximate pattern for a 7'-0' door.

The Full PIR pattern is shown in figure 1.2 based on different heights.

The entire pattern can be shifted 20 degrees from centerline in all directions by adjusting the sensor as shown in figure 1.3

1. Remove the electronic cover from the lock.

2. Loosen the LOCKING SCREW, using the supplied 7/64"Allen wrench, until the BLACK SENSOR TUBE can be easily moved. DO NOT TOUCH THE PIR LENS! The BLACK SENSOR TUBE is mounted in a ball and socket. Use the Black Tube to adjust the Sensor Assembly.

3. Perform a walk test by approaching the opening and observing the detection pattern. The Led will turn from red to green and the lock will release prior to reaching the door when adjusted properly. Adjust the sensor tube accordingly to achieve desired operation. Re-tighten the Locking Screw.

4. Re-install the electronic cover and perform a final walk test to insure proper PIR alignment.

Figure 1.1
Typical pattern for a 7'-0' door.

Figure 1.2
Full PIR Pattern.

Figure 1.3
PIR Pattern Adjustment.
WIRING OPTIONS FOR THE 3006
TWO WIRE HOOK-UP
When Replacing Existing Electric Strikes

**Description of Operation:**
The 3006 is ideal for retrofitting of electric strike installations. It offers a higher degree of security and can be powered and controlled from the two existing wires when connected to terminals 1 & 2. Proprietary electronics allow the PIR to stay active for up to one hour, during a power interruption. Check that the voltage selection jumpers are properly set to match the input power. Immediate egress is achieved by the built-in PIR detector. Relock time delay may be set for 2-10 seconds by adjusting T1. If an Access Control device is required for ingress see drawing B.

---

**ACCESS CONTROL HOOK-UP**

**Description of Operation:**
Access control requires removing the yellow jumper and connecting a normally closed dry contact across terminals 3 & 4. Input power wires are connected to terminals 1 & 2. Check that the voltage selection jumpers are properly set to match the input power. Immediate egress is achieved by the built-in PIR detector. Relock time delay for the access control and the PIR may be set for 2-10 seconds by adjusting T1.
ACCESS & EGRESS CONTROL HOOK-UP

**Description of Operation:**
An Egress Control additional to the PIR requires removing the WHITE jumper and connecting a normally closed dry contact across terminals 5 & 6. The Egress Control Relock Delay is adjustable from 2-80 seconds through T2, when the External Egress Jumper (J5) is in the adjustable position. If J5 is in the fixed position there will be a fixed relock delay of 35 seconds. For description of the Access Control Input see diagram B.

PIR DISABLE & REX OUTPUT

**Description of Operation:**
To provide "Night-Time" security the PIR may be disabled by closing a normally open dry contact across terminals 7 & 8. A "Restricted" egress device may be wired to terminals 5 & 6 (See Drawing C). The Rex output may be used to shunt an alarm system during any authorized release. This form "C" output contact can be held open for a time duration of 2-30 seconds past relock by adjusting T3.
DOOR STATUS SWITCH & DYNASTAT (BOND) SENSOR

Description of Operation:
The Door Status Monitor (DSM) and the Dynastat/Bond Sensor are for external monitoring. The DSM's form C contact will change state when the door is opened, and return to its original position once the door is closed. The Dynastat Sensor's form C contact will change state when the lock has been unlocked, and will return to its original state when relocked and properly bonded.

ANTI-TAMPER CONNECTION

Description of Operation:
The Anti-Tamper (ATS) feature monitors removal of the electronic cover. If the cover is removed the ATS terminals 18 & 19 will change state and stay in that position until the cover is replaced. This output is selectable through J8 for a Normally Open or a Normally Closed Contact when the electronic cover is in place.
MONITOR WIRING

Monitoring the lock may consist of horns, audibles, lights etc. The diagram below shows a suggested way of wiring light indicators for a fully loaded 3006.

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```

- **POWER SOURCE**: 12 / 24 V AC - DC
- **OUTPUT CONTACTS**
  - **DOOR STATUS**: (Door Open)
  - **REX**: (Door Unlocked)
  - **BOND SENSOR**: (Tamper Alarm)
  - **ANTI-TAMPER**

---

DSM OPTION DESCRIPTION AND ADJUSTMENT

1. The DSM option is fixed for maximum sensitivity. A magnetic proximity switch is concealed behind the access cover.
2. The DSM Block contains a hidden magnet. When the door is closed the magnet is brought into close proximity to the access cover and activates the proximity switch thus producing a signal indicating a change in door position.
NOTES ON INSTALLATION:

3006 CIRCUIT BOARD

POWER SOURCE
12 / 24 V
AC - DC

SKETCH IN ALL CONNECTIONS FOR FUTURE REFERENCE OF INSTALLATION
3006 SERIES BILL OF MATERIAL

HARDWARE KIT CONTENTS

1 SEX NUT
1 DOOR SPACER
1 ARMATURE SPACER
1 STEEL WASHER
1 RUBBER WASHER
2 SPIN PINS 3/16 x 1"
1 ARMATURE SCREW
5 #10 TEK SCREWS
   (Fast-Track mounting)

(1) 3006 ASSEMBLY
(1) ARMATURE
(1) HARDWARE KIT
(1) TOOL KIT
(1) TEMPLATE
(1) INSTRUCTION MANUAL

3006

TOOL KIT CONTENTS

2 ALLEN WRENCHES 1/8 & 7/64
1 SNAKE EYE SCREW DRIVER

REQUIRED TOOLS

DRILLS 7/64, 1/8, 5/16, 11/32, 9/16, 21/32
PHILLIPS DRIVER #2
3/16" ALLEN WRENCH

OPTIONS CHECK OFF

DYN □
DSM □
ANTI-TAMPER □
SF □ _________________

BUILT WITH PRIDE BY

If any problems or questions arise while installing the 3006 please contact DynaLock's Customer Service Department @ 860-582-4761, or your local representative.

Thank you for using DynaLock's Electronic Security Hardware.
The heavy duty GL1 Electromechanical Gate Lock provides weather-resistant access control for a wide range of gate applications. The GL1 provides 2000lbs of holding force for electrical and manually operated indoor or outdoor gates where preload is a concern. Ideal for swinging or sliding vehicle, pedestrian, or stock gate access control. Use with the BPSS Solar Power Supply for remote outdoor locations.*

**PRODUCT FEATURES**
- 2000lbs holding force
- Operates under preload up to 100lbs
- Automatic dual voltage - no field adjustment required
- Field-selectable fail secure/fail safe
- Manual key override (right or left hand)
- Self-aligning receiver (+/- 1/2" horizontally) helps compensate for gate misalignment and sag
- Tamper resistant cast aluminum housing
- Latch status monitor switch (SPDT)
- Heavy wall 1/2" inside diameter threaded steel coupling
- Hardened steel latch and pin standard
- Surface mount
- MagnaCare Lifetime Replacement No Fault Warranty

**Specifications:**
- **Holding Force:** 2000lbs [907 kg]
- **Dimensions:** 2-3/4"L x 2-1/4"W x 3-1/4"D
- **Patent Pending**
- **Electrical:**
  - 12 Volts Initial (Peak): (~0.9 sec) @ 870mA - Reduced: 290mA Power Consumption: 3.5 Watts
  - 24 Volts Initial (Peak): (~0.9 sec) @ 720mA - Reduced: 170mA Power Consumption: 4.1 Watts
- **Operating Temperature:** -58 to +167F [-50 to +75C]
- **Indoor or outdoor use**
- **Shipping Weight:** 6lbs [2.72 kg]
- **Finishes:** Black Crinkle Powder Coated Finish

**GL1 with FMK-SL for sliding gates**

**GL1 with FMK-SW for swinging gates**

*For BPSS information, see page 81.*
GL1 QUICK START GUIDE

1) USE SUPPLIED TEMPLATE TO LOCATE AND INSTALL MOUNTING HARDWARE
2) CUT THRU GASKET FOR REAR WIRE HOLE ACCESS IF REQUIRED
3) INSTALL MOUNTING SCREWS - TOP CHASSIS HOLES ONLY!
4) WELD WITHIN PROVIDED CHASSIS SLOTS AND/OR STRIKE PLATE EDGES
5) ROUTE AND CONNECT WIRING - VERIFY OPERATION OF THE LOCK AT THIS POINT
6) INSTALL CAMLOCK AND PLUG IN COVER
7) INSTALL COVER OVER TOP AND SLIDE DOWN INTO POSITION
8) INSTALL COVER SCREWS
9) PLUG CONDUIT FITTING IF NOT USED, WELD PLUG FOR MAXIMUM SECURITY

IF YOU NEED ADDITIONAL HELP REFER TO TROUBLESHOOTING GUIDE ON PAGES 14-15 OF "INSTALLATION AND OPERATING INSTRUCTIONS"
SECURITRON SPECIFICATION
Z BRACKET FOR ARMATURE MOUNTING (INSWING DOORS AND GATES)

PRODUCT DATA SHEET

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<th>PRODUCT NAME</th>
<th>Z-32, Z-34, Z-62, Z-82 Brackets</th>
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<td>System Description</td>
<td>The Securitron Magnalock Corporation Z Bracket allows the mounting of magnetic locks on inswinging doors and gates. Z Brackets are separately available for the 32, 34, 62 and 82 series &quot;F&quot; version Magnalocks. The bracket includes a cover which gives the installation an attractive finished appearance.</td>
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<td>References</td>
<td>ISO 9001</td>
</tr>
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<td>Warranty</td>
<td>SECURITRON MAGNALOCK CORPORATION warrants that it will replace at customer's request, at any time for any reason, products manufactured and branded by SECURITRON. SECURITRON will use its best efforts to ship a replacement product by next day air freight at no cost to the customer within 24 hours of SECURITRON's receipt of the product from customer. If the customer has an account with SECURITRON or a valid credit card, the customer may order an advance replacement product, whereby SECURITRON will charge the customer's account for the price of the product plus next day air freight, and will credit back to the customer the full amount of the charge, including outbound freight, upon SECURITRON's receipt of the original product from the customer. SECURITRON's sole and exclusive liability, and customer's sole remedy, is limited to the replacement of the SECURITRON product when delivered to SECURITRON's facility (freight and insurance charges prepaid by customer). The replacement, at SECURITRON's sole option, may be the identical item or a newer unit which serves as a functional replacement. In the event that the product type has become obsolete in SECURITRON's product line, this MAGNACARE warranty will not apply. This MAGNACARE warranty also does not apply to custom, built to order, or non-catalog items, items made by</td>
</tr>
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</table>
| Warranty Continued | others (such as batteries), returns for payment, distributor stock reductions, returns seeking replacement with anything other than the identical product, or products installed outside of the United States or Canada. This MAGNACARE warranty also does not apply to removal or installation costs.
SECURITRON will not be liable to the purchaser, the customer or anyone else for incidental or consequential damages arising from any defect in, or malfunction of, its products. SECURITRON does not assume any responsibility for damage or injury to person or property due to improper care, storage, handling, abuse, misuse, or an act of God.
EXCEPT AS STATED ABOVE, SECURITRON MAKES NO WARRANTIES, EITHER EXPRESS OR IMPLIED, AS TO ANY MATTER WHATSOEVER, INCLUDING WITHOUT LIMITATION THE CONDITION OF ITS PRODUCTS, THEIR MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. |
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<td>Other Information</td>
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<tr>
<td>Accessories</td>
<td>&quot;F&quot; version Securitron Magnalocks.</td>
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</table>
| Finishes | The assembly is available in three finishes. The part numbers are:
- Z-32/34/62/82SS (Brushed stainless steel cover)
- Z-32/34/62/82CL (Clear anodized aluminum)
- Z-32/34/62/82BK (Black anodized aluminum) |
| Installation | Please refer to instruction manual (Securitron part number: 500-10800) Instruction manual can also be found on our website: www.securitron.com |
**Z-32 Bracket (inswing and gate installation):**

The Z-32 Bracket shall be produced by an ISO 9001 certified manufacturer. The Z-32 Bracket shall be available for the 32 series "F" version Securitron Magnalock. The Z-32 Bracket shall allow mounting on an inswinging door. The Z Bracket shall include a cover which gives the installation an architecturally attractive finished appearance. The Z-32 Bracket shall be available in three different finishes: Brushed Stainless Steel, Clear Anodized Aluminum and Black Anodized Aluminum.

Securitron model Z-32 Bracket.

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**Z-32**

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**Z-34/62/82 Bracket (inswing and gate installation):**

The Z-34/62/82 Bracket shall be produced by an ISO 9001 certified manufacturer. The Z-34/62/82 Bracket shall be separately available for the 34, 62 and 82 series "F" version Securitron Magnalocks. The Z-34/62/82 Bracket shall allow mounting on an inswinging door. The Z-34/62/82 Bracket shall include a cover which gives the installation an architecturally attractive finished appearance. The Z-34/62/82 Bracket shall be available in three different finishes: Brushed Stainless Steel, Clear Anodized Aluminum and Black Anodized Aluminum.

Securitron model Z-34/62/82 Bracket.

**Rev 12-10-01**

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Website: www.securitron.com • E-mail: info@securitron.com

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