REVOLUTIONARY DESIGNS
TRANSFORMING THE INDUSTRY

AND IT’S JUST THE BEGINNING

2018 PRICEBOOK CATALOG

Prices effective
June 1, 2018
Prices Subject to change
without notice.
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- 3250SOM-LC “Strike-O-Matic™” pg. 7

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## Whats New!!!
- 323478F-LC & 323478FX-LC - The Smallest Electric Strike in the world is now FIRE RATED
- 3250SOM-LC - “Strike-O-Matic™” - The smallest solution for use with the Door-O-Matic™.
- 3275VRP-LC -
- 41-4200-AK - replaces 4100-AK - now for both 4100 & 4200 electric strikes.

## Discontinued
- 478-ITL - Replaced by ANSI-ITL
- 4100-AK - Replaced by 41-4200-AK

---

**EFFECTIVE DATE || June 1st, 2018**
SPECIALIZED SOLUTIONS
ELECTRIC STRIKE SERIES

SOLUTIONS FOR UNIQUE INSTALLATIONS
THAT ONLY WE CAN PROVIDE

NEW!
3250SOM-LC
STRIKE-O-MATIC™

THE DOOR-O-MATIC™
SOLUTION

THE SMALLEST ELECTRIC STRIKE
IN THE WORLD...
DOES IT AGAIN!

4100DBDL
THE DEADBOLT
SPLIT LATCH
SOLUTION

Provides emergency
deadbolt override!

AND NIGHT LATCH FUNCTION FOR
MORTISE LOCKS WITH DEADBOLTS

3275VRP
THE VERTICAL
ROD LATCH
SOLUTION

&

SMALLEST RIM PANIC
SOLUTION AVAILABLE
THE DEADBOLT SPLIT LATCH SOLUTION

4100DBDL

The only electric strike with two locking mechanisms that function separately.

The only electric strike with two locking mechanisms that function separately.

Designed for deadbolt privacy, allowing for an emergency override.

Can be used for a night-latch function as well (Leave the deadbolt latch un-powered).

4 Faceplates included

Great places the 4100DBDL can be used:

- Bathrooms
- Quiet Room
- Dorm Rooms
- Casino Cash Room
- Meeting Rooms
- Doctor Sleeping Rooms
- Laboratory
- Classroom Lockdown
- Facility Access
- Chicken Hatchery
- Machine Shops
- Faculty Shared Bathroom

www.trineonline.com

***PATENT PENDING***
**Specialized Solutions**  
**Electric Strike Series**  
**The Deadbolt Split Latch Solution**

**Key Features:**

- Two independently operated latch systems.
- Use with mortise locks with dead bolts up to 1” projection.
- **Flexible:** Always be prepared!  
  - 4 faceplates included
  - 12 & 24DC, 12-24 AC, Low Current Draw
  - 1 Trim Skirt (matching finish)
- **Strong:** 2,000 lbs. holding force on each latch
- **Durable:** Exceeds 1,000,000 Life Cycles
- Works with the Schlage® L Series & Yale® 8700 Series **without** relocating mounting tabs.
- 1 - 11/16” backset.

**Standards:**

- 3-hour fire rated – UL10C, Fire Tests of Door Assemblies.
- BHMA Grade 1: ANSI/BHMA A156.5
- UBC 7-2, Uniform Building Code.
- NFPA 252 - Issue: 1999/01/01
  Standard Methods of Fire Tests of Door Assemblies.
- ANSI/BHMA A156.31-2007
- Patent Pending

**Electric Characteristics**  
*Per latch*

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Current/Amps</th>
<th>Ohms</th>
<th>Duty</th>
<th>Sound</th>
</tr>
</thead>
<tbody>
<tr>
<td>12DC</td>
<td>0.240</td>
<td>50</td>
<td>Intm./Cont.</td>
<td>Silent</td>
</tr>
<tr>
<td>24DC</td>
<td>0.114</td>
<td>210</td>
<td>Intm./Cont.</td>
<td>Silent</td>
</tr>
<tr>
<td>12AC @ 60Hz</td>
<td>0.210</td>
<td>50</td>
<td>Intm.</td>
<td>Buzz</td>
</tr>
<tr>
<td>16AC @ 60Hz</td>
<td>0.280</td>
<td>50</td>
<td>Intm.</td>
<td>Buzz</td>
</tr>
<tr>
<td>24AC @ 60Hz</td>
<td>0.420</td>
<td>50</td>
<td>Intm.</td>
<td>Buzz</td>
</tr>
</tbody>
</table>

**Price:**  

- **4100DBDL-32D** (Satin Stainless Steel – BHMA630) $558
- **4100DBDL-US4** (Satin Brass – BHMA606) $639
- **4100DBDL-US10** (Satin Bronze – BHMA612)
- **4100DBDL-US10B** (Dark Bronze – BHMA613) $699

**The following finishes are:**

- **4100DBDL-32** (Polished Stainless Steel – BHMA629)
- **4100DBDL-US3** (Bright Brass – BHMA605)

To order Fail-safe see table to the right → RS price same as above.

www.trineonline.com
**THE VERTICAL ROD SOLUTION**

**3275VRP-LC**

The 3275VRP is the smallest electric strike solution for vertical rod latches. *Utilizes the reliable 3000 series mechanism.*

For Use with:
- Sargent 97/68
- Arrow 3700/S1150/600
- Cal-Royal 9860V/F9860V
- Town Steel ED1200F
- Von Duprin 33/35
- Von Duprin 98/99 (Without the Deadlocking option)

### Features:
- All stainless steel construction
- BHMA Grade 1
- 1,500 lbs holding force
- 500,000+ life cycles
- Horizontal adjustment
- 1/16” spacer plate provided

### Specifications:

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Pull In/Hold Amps</th>
<th>Ohms</th>
</tr>
</thead>
<tbody>
<tr>
<td>12VDC</td>
<td>.743/.298</td>
<td>13</td>
</tr>
<tr>
<td>12VAC</td>
<td>.715/.277</td>
<td>13</td>
</tr>
<tr>
<td>24VDC</td>
<td>.397/.170</td>
<td>13</td>
</tr>
<tr>
<td>24VAC</td>
<td>.378/.173</td>
<td>13</td>
</tr>
</tbody>
</table>

**Duty:** Intermittent/Continuous

**LC100 included (with surge & kickback protection)**

**Price:** $349

**Finishes:**
- 275VRP-LC-ALUM (Aluminum Powder Coat)
- 275VRP-LC-DKBZ (Dark Bronze Powder Coat)

Available September 2018

www.trineonline.com
3250SOM-LC (STRIKE-O-MATIC™)

The only electric strike for use with Door-O-Matic®

• Utilizes the reliable 3000 series mechanism.
• 1/8” Horizontal adjustment included.
• LC100 included for surge and kickback protection

<table>
<thead>
<tr>
<th>VOLTAGE</th>
<th>PULL IN/HOLD AMPS</th>
<th>OHMS</th>
</tr>
</thead>
<tbody>
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</tr>
<tr>
<td>24VAC</td>
<td>.378/.173</td>
<td>13</td>
</tr>
</tbody>
</table>

DUTY: Intermittent/Continuous

Features:
• Two faceplates provided in aluminum and dark bronze finish
• BHMA Grade 1
• 1,500 lbs holding force
• 500,000+ life cycles
• Horizontal adjustment
• Patented

Price: $389

Available September 2018
<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>323478F-LC</strong></td>
<td><strong>NEW</strong>&lt;br&gt;FOR CYLINDRICAL LOCKSETS&lt;br&gt;THE SMALLEST FIRE RATED ELECTRIC STRIKE IN THE WORLD&lt;br&gt;3 HOUR FIRE RATED&lt;br&gt;3 Faceplates included</td>
</tr>
<tr>
<td><strong>4100</strong></td>
<td>FOR CYLINDRICAL &amp; MORTISE LOCKS&lt;br&gt;4 FACEPLATES INCLUDED&lt;br&gt;3 HOUR FIRE RATED</td>
</tr>
<tr>
<td><strong>4850</strong></td>
<td>FOR RIM PANIC EXIT DEVICES&lt;br&gt;HANDES BOTH 1/2” &amp; 3/4” LATCHES&lt;br&gt;NOW WITH 3 SPACER PLATES&lt;br&gt;AVAILABLE 4850PoE &amp; 4850LCD</td>
</tr>
<tr>
<td><strong>4800F</strong></td>
<td>FOR RIM PANIC EXIT DEVICES&lt;br&gt;3 HOUR FIRE RATED&lt;br&gt;323478LC</td>
</tr>
<tr>
<td><strong>4200</strong></td>
<td>FOR CYLINDRICAL &amp; DEADLATCHES&lt;br&gt;THE MOST FLEXIBLE STRIKE AVAILABLE!</td>
</tr>
<tr>
<td><strong>EN400CMRP</strong></td>
<td>THE GATE SOLUTION FOR CYLINDRICAL, MORTISE, &amp; RIM PANIC EXIT DEVICES&lt;br&gt;OUTDOOR RATED&lt;br&gt;3 HOUR FIRE RATED</td>
</tr>
<tr>
<td><strong>323478LC</strong></td>
<td>FOR CYLINDRICAL LOCKSETS&lt;br&gt;THE SMALLEST ELECTRIC STRIKE IN THE WORLD</td>
</tr>
</tbody>
</table>
THE ONE BOX SOLUTION
FOR CYLINDRICAL AND MORTISE LOCKS

4100

DON’T MISS THE
4100RX
RAMP EXTENSION
FOR THE 4100
WHEN YOU NEED THAT
EXTRA 1/4” ON RACO™
FRAMES (OR SIMILAR)

NOW AVAILABLE
4100LBSM
LATCHBOLT AND
STRIKE MONITORING
MICROSWITCHES ARE A THING
OF THE PAST!
SUPERIOR
PATENTED DESIGN
Key Features:
• Use with cylindrical locksets, mortise locks without dead bolts and mortise exit devices.

• 1 - 3/8” shallow backset allows the 4100 to be used in 2” fire rated frames with 1/2” sheetrock ingress.

• Flexible: Always be prepared!
  ° 4 faceplates included
  ° 12 & 24DC, 12-24 AC, Low Current Draw
  ° 1 Trim Skirt (matching finish) which covers competitor cutouts

• Strong: 3,000 lbs. of Holding Force (factory tested)

• Durable: Exceeds 1,000,000 Life Cycles

• Works with the Schlage® L Series & Yale® 8700 Series without relocating mounting tabs.

Standards:
• 3-hour fire rated – UL10C, Fire Tests of Door Assemblies.
• Listed for UL1034 Burglary Resistant Electric Locking Mechanism, Grade 1
• 294 (6th Edition) Listed
• BHMA Grade 1: ANSI/BHMA A156.5
• UBC 7-2, Uniform Building Code.
• CAN4 S104, Standard Method for Fire Tests of Door Assemblies.
• NFPA 252 - Issue: 1999/01/01 Standard Methods of Fire Tests of Door Assemblies.
• USPT Patented #US20110241361
• ANSI/BHMA A156.31-2007

NOTE: WH fire listing is void when using fail safe action.

Everything included.

Need an Installation Tool
See page 51
The best way to mark and cut for the 4100... use the ANSI-ITL.
Aesthetics Matter

The Premium stainless steel trim skirt cleans up the cut line.

Not worrying about a perfect cut on the face saves time and looks great. Since aesthetics matter, the premium trim skirt ALWAYS matches the finish on the faceplates and electric strike body.

Cutting Matters

1 - 3/8” Low profile backset provides ease of installation. Why cut for a deadbolt 100% of the time when they are only used 5% of the time.

Electric Characteristics

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Current/Amps</th>
<th>Ohms</th>
<th>Duty</th>
<th>Sound</th>
</tr>
</thead>
<tbody>
<tr>
<td>12DC</td>
<td>0.240</td>
<td>50</td>
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<td>Silent</td>
</tr>
<tr>
<td>24DC</td>
<td>0.114</td>
<td>210</td>
<td>Intm./Cont.</td>
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<tr>
<td>12AC @ 60hz</td>
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<td>50</td>
<td>Intm.</td>
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<tr>
<td>16AC @ 60hz</td>
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<td>Intm.</td>
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<tr>
<td>24AC @ 60hz</td>
<td>0.420</td>
<td>50</td>
<td>Intm.</td>
<td>Buzz</td>
</tr>
</tbody>
</table>

No additional “pacs” required.

Power Matters

Low Current Draw

.240 Amp at 12DC makes it very PoE Friendly

12 & 24DC :: 12 through 24AC

All the low voltage flexibility you need.

Low current draw, under 300 mA for 12DC, solves a number of installation and network load issues.

Price:

<table>
<thead>
<tr>
<th>4100-32D</th>
<th>(Satin Stainless Steel – BHMA630)</th>
<th>$499</th>
</tr>
</thead>
<tbody>
<tr>
<td>4100-US4</td>
<td>(Satin Brass – BHMA606)</td>
<td>$589</td>
</tr>
<tr>
<td>4100-US10</td>
<td>(Satin Bronze – BHMA612)</td>
<td></td>
</tr>
<tr>
<td>4100-US10B</td>
<td>(Dark Bronze – BHMA613)</td>
<td></td>
</tr>
<tr>
<td>4100-32</td>
<td>(Polished Stainless Steel – BHMA629)</td>
<td>$648</td>
</tr>
<tr>
<td>4100-US3</td>
<td>(Bright Brass – BHMA605)</td>
<td></td>
</tr>
</tbody>
</table>

For Fail-safe action (locks with power) add “RS” to the item number. EX: 4100RS-32D RS price same as above.

Faceplates, strike body, mounting screws, latch, and trim skirt all match the finish.

www.trineonline.com
4100 Accessories

4100RX-250
- 1/4" stainless steel ramp extensions.
- Perfect for Raco® frames or similar.
- Extension acts like a trim skirt to hide the cut line pocket.

4100LB & 4100DBDL-LB & NOW WITH STRIKE MONITORING (SM)
The microswitches you’ve used for 30 years are a thing of the past. They are affected by moisture and fail sooner than you expect.

Stop replacing strikes due to low cost microswitches and start using a real Latchbolt Monitoring Solution.

4100LB/LBSM

<table>
<thead>
<tr>
<th>CHARACTERISTICS</th>
<th>CONTACT RESISTANCE</th>
<th>BREAKDOWN VOLTAGE</th>
<th>OPERATING TEMP</th>
<th>RATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONTACT FORM: C</td>
<td>150 MILLOHM</td>
<td>200 VDC</td>
<td>-40° - 130° C</td>
<td>2,000,000+ CYCLES</td>
</tr>
<tr>
<td>CONTACT RATING: 10W</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SWITCHING VOLTAGE: 30V MAX AC/DC</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SWITCHING CURRENT: 0.5 A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Price:

4100LB
- $40

4100LBSM
- $70

41-4200-AK: Accessories Kit
- Standard and Torx® screws
- 4100 & 4200 Latch shims
- Plug-in style wire connectors
- Sealed crimp connectors

Price: $29

Piezo Buzzers:
- BZ-12: Audible buzzer for 12DC power
- BZ-24: Audible buzzer for 24DC power

Price: $14

Additional Faceplates:

Aluminum Solution
We offer 3 faceplate sizes to meet the demands of aluminum installations.
All faceplates can be used with the 4200.

Finish:
- 32D (Satin Stainless - BHMA630)
- US3 (Bright Brass - BHMA605)
- US4 (Satin Brass - BHMA606)
- US10 (Satin Bronze - BHMA612)
- US10B (Dark Bronze - BHMA613)

The following finishes are:

<table>
<thead>
<tr>
<th>Finish</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>32D</td>
<td>$40</td>
</tr>
<tr>
<td>US3</td>
<td>$70</td>
</tr>
<tr>
<td>US4</td>
<td>$60</td>
</tr>
<tr>
<td>US10</td>
<td>$50</td>
</tr>
<tr>
<td>US10B</td>
<td>$45</td>
</tr>
</tbody>
</table>

Prices for faceplates only

www.trineonline.com
THE ONE BOX SOLUTION
FOR CYLINDRICAL AND DEADLATCHES

4200
THE BEST
LOW CURRENT DRAW
MOST FLEXIBLE
FRAME MATCHING
ELECTRIC STRIKE
ON THE MARKET

4200CC-10B-32D
2 FINISHES - 1 BOX
THE ONE BOX Solution
For Cylindrical and Deadlatches

THE FLEXIBLE STRIKE

Key Features:

- Use with cylindrical locksets & dead latches in aluminum, metal, and wood frames. The 4200 solves problems auxiliary latch "pins" found on Adams Rite® locks.
- Tall Cavity solves door sag problems. Tallest latch in its class.
- 1 - 1/16" shallow backset solves frame depth problems.
- 4 faceplates included
- 12 & 24DC, 12-24 AC
- Trim Skirt Included - color matched trimskirts SOLVE bad cuts.
- Removeable Fascia: Change colors in the field to match your frame.

Standards:
- ANSI/BHMA Grade 1 - A156.31-2007
- ETL Listed for UL1034 Burglary Resistant Electric Locking Mechanism
- ETL Listed for UL294 (6th edition)

FLEXIBLE CAVITY

1 - 1/16" shallow backset

3 - 3/8" Tall Cavity solves door sag problems.

1 - 7/16" COMPETITOR 1
1 - 1/2" COMPETITOR 2
1 - 7/16" COMPETITOR 3

4200
Henry Ford once said, “you can have any color you want, so long as it’s black.”

And the competition agrees

Need an Installation Tool
See page 51

The best way to mark and cut for the 4200... use the ANSI-ITL.

CHANGE FINISH IN THE FIELD WITH OUR CK SYSTEM
THE ONE BOX SOLUTION
FOR CYLINDRICAL AND DEADLATCHES

FLEXIBLE FACEPLATES

THE BEST SOLUTION
FOR ALUMINUM FRAMES

ALL 4 FACEPLATES INCLUDED

AVAILABLE IN 6 FINISHES

41-4200-AK: Accessories Kit
• Standard and Torx® screws
• 4100 & 4200 Latch shims
• Plug-in style wire connectors
• Sealed crimp connectors

Price: $29

FLEXIBLE POWER

Electric Characteristics

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Current/Amps</th>
<th>Ohms</th>
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<th>Sound</th>
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<td>50</td>
<td>Intm.</td>
<td>Buzz</td>
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</table>

Power Matters

Low Current Draw
.240 Amp at 12DC makes it very PoE Friendly

12 & 24DC :: 12 through 24AC All the low voltage flexibility you need.

Price: $199

<table>
<thead>
<tr>
<th>Price:</th>
<th>$199</th>
</tr>
</thead>
<tbody>
<tr>
<td>4200-32D:</td>
<td>Stainless Steel Faceplates with Black Fascia – Use with the CK System -&gt;</td>
</tr>
<tr>
<td>4200-ALUM:</td>
<td>Aluminum Faceplates &amp; Fascia</td>
</tr>
<tr>
<td>4200-BLK:</td>
<td>Black Faceplates &amp; Fascia</td>
</tr>
<tr>
<td>4200-DKBZ:</td>
<td>Dark Bronze Faceplates &amp; Fascia</td>
</tr>
<tr>
<td>4200-GRN:</td>
<td>Green Faceplates &amp; Fascia</td>
</tr>
<tr>
<td>4200-WHT:</td>
<td>White Faceplates &amp; Fascia</td>
</tr>
</tbody>
</table>

Add “RS” for Fail-safe model (ex: 4200RS-32D)

Price: $80

<table>
<thead>
<tr>
<th>Price:</th>
<th>$80</th>
</tr>
</thead>
<tbody>
<tr>
<td>CK-PK:</td>
<td>This pack includes 4 Fascia &amp; Trimskirt finish (except black)</td>
</tr>
</tbody>
</table>

Price: $25

<table>
<thead>
<tr>
<th>Price:</th>
<th>$25</th>
</tr>
</thead>
<tbody>
<tr>
<td>CK-ALUM:</td>
<td>Aluminum Fascia/Trimskirt</td>
</tr>
<tr>
<td>CK-BLK:</td>
<td>Black Fascia/Trimskirt</td>
</tr>
<tr>
<td>CK-DKBZ:</td>
<td>Dark Bronze Fascia/Trimskirt</td>
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<td>CK-GRN:</td>
<td>Green Fascia/Trimskirt</td>
</tr>
<tr>
<td>CK-WHT:</td>
<td>White Fascia/Trimskirt</td>
</tr>
</tbody>
</table>

Price: $25

www.trineonline.com
THE ONE BOX SOLUTION
FOR CYLINDRICAL AND DEADLATCHES

The 4200CC-10B-32D

Key Features:

• Two finish options in one box means you’re ready for most frames.

• Tall Cavity solves door sag problems. Tallest latch in its class.

ALL ITEMS SHOWN ARE INCLUDED

Price: $179

The 4200CC7-10B-32D

Key Features:

• The two most common faceplate sizes for aluminum frames plus two finish options all in one box.

• Solves door sag problems. Tallest latch in its class.

ALL ITEMS SHOWN ARE INCLUDED

Price: $199

www.trineonline.com
THE ONE BOX SOLUTION
FOR RIM PANIC EXIT DEVICES

4800F

THE 3/4” SOLUTION
FIRE RATED AT A
NON-FIRE RATED COST

4850

THE 1/2” SOLUTION
3 SPACERS INCLUDED
6 THICKNESSES CREATED
The 4800F

- For use with surface mounted rim exit devices with up to 1" throw. For use in new or replacement installations in wood or metal door frames and tight installs.

- Comes with Trine’s Patented 4-Pin Anchoring System for strength and stability. (See page 23 for details)

- Cavity is completely open – which means the 4800 allows for an incremental depth up to a 1" throw – Competitor back plates do not allow for this versatility.

- Built-in electronics automatically allow 11 through 28 AC and DC Voltage input – with surge and kickback protection.

- Contains a one piece locking mechanism with one solenoid. Less parts mean less problems.

- Fail-safe/Fail-secure field selectable. WH fire listing is void when using fail safe action.

Standards:
- Class A, 3 Hour Single door / frame configuration
- UL10C, Fire Tests of Door Assemblies
- UBC 7-2, Uniform Building Code
- CAN4 S104, Standard Method for Fire Tests of Door Assemblies
- NFPA 252
- Issue: 1999/01/01 Standard Methods of Fire Tests of Door Assemblies
- BHMA Grade 1 Electric Strike

Electric Characteristics allow for PLUG and PLAY capability

<table>
<thead>
<tr>
<th>Electric Characteristics</th>
<th>Voltage</th>
<th>Pull In/Hold Amps</th>
<th>Duty</th>
<th>Sound</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Intm./Cont.</td>
<td>Silent</td>
<td></td>
</tr>
<tr>
<td>12DC</td>
<td>0.566/0.217</td>
<td>Intm./Cont.</td>
<td>Silent</td>
<td></td>
</tr>
<tr>
<td>24DC</td>
<td>0.253/0.099</td>
<td>Intm./Cont.</td>
<td>Silent</td>
<td></td>
</tr>
<tr>
<td>12AC</td>
<td>0.509/0.181</td>
<td>Intm./Cont.</td>
<td>Silent</td>
<td></td>
</tr>
<tr>
<td>16AC</td>
<td>0.405/0.149</td>
<td>Intm./Cont.</td>
<td>Silent</td>
<td></td>
</tr>
<tr>
<td>24AC</td>
<td>0.215/0.087</td>
<td>Intm./Cont.</td>
<td>Silent</td>
<td></td>
</tr>
</tbody>
</table>

Price:
- 4800F-32D (Satin Stainless Steel – BHMA630) $489
- 4800F-DKBZ (Dark Bronze Powder Coated – BHMA613E) $514
- 4800F-US4 (Satin Brass – BHMA606) $489
- 4800F-US10 (Satin Bronze – BHMA612) $565
- 4800F-US10B (Dark Bronze – BHMA613) $565
- 4800F-32 (Polished Stainless Steel – BHMA629) $580
- 4800F-US3 (Bright Brass – BHMA605) $580

See Page 23 for options.

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THE FIRE RATED
3/4” RIM PANIC SOLUTION

Need an Installation Tool
See page 51
The best way to mark and drill for the 4800F is the 4850-ITL.
For use with surface mounted rim exit devices with up to a 1” throw.

Cavity is completely open – which means the 4850 allows for an incremental depth up to a 1” throw - Competitor back plates do not allow for this versatility.

Built-in electronics automatically allow 11 through 28 DC voltage input – with surge and kickback protection.

Comes with Trine’s Patented 6-Pin Anchoring System for strength and stability. (See page 23 for details)

Contains a one piece locking mechanism with one solenoid – less parts mean less problems.

Fail-safe/Fail-secure field selectable.

BHMA Grade 1 Electric Strike

### The 4850

**Price:**

- **4850-32D** (Satin Stainless Steel – BHMA630) $495
- **4850-DKBZ** (Dark Bronze Powder Coated – BHMA613E) $525
- **4850-US4** (Satin Brass – BHMA606) $571
- **4850-US10** (Satin Bronze – BHMA612) $571
- **4850-US10B** (Dark Bronze – BHMA613) $571
- **4850-32** (Polished Stainless Steel – BHMA629) $584
- **4850-US3** (Bright Brass – BHMA605) $584

See Page 23 for options.

3 Spacers included, 6 Thicknesses created, 1 Box solution provided.

---

### Electric Characteristics

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Pull In/Holding</th>
<th>Duty</th>
<th>Sound</th>
</tr>
</thead>
<tbody>
<tr>
<td>12DC</td>
<td>0.500/0.178</td>
<td>Intm./Cont.</td>
<td>Silent</td>
</tr>
<tr>
<td>16DC</td>
<td>0.385/0.131</td>
<td>Intm./Cont.</td>
<td>Silent</td>
</tr>
<tr>
<td>24DC</td>
<td>0.255/0.084</td>
<td>Intm./Cont.</td>
<td>Silent</td>
</tr>
</tbody>
</table>

---

**THE ONE BOX SOLUTION FOR RIM PANIC EXIT DEVICES**
The 4850PoE & LCD

Low Current Draw means smaller or no additional power supply is required for most installations.

Electric Characteristics

<table>
<thead>
<tr>
<th>Item</th>
<th>Voltage</th>
<th>Amps</th>
<th>Watts</th>
<th>Duty</th>
<th>Sound</th>
</tr>
</thead>
<tbody>
<tr>
<td>4850PoE</td>
<td>12DC</td>
<td>0.260</td>
<td>3.12</td>
<td>Intm./Cont.</td>
<td>Silent</td>
</tr>
<tr>
<td>4850LCD</td>
<td>24DC</td>
<td>0.135</td>
<td>3.24</td>
<td>Intm./Cont.</td>
<td>Silent</td>
</tr>
</tbody>
</table>

Other surface mounted strikes start at:

- 12DC 0.450 5.40
- 24DC 0.250 6.00

Don’t Forget Amperage Drop! Compensate with a Low Current Draw Strike.

1/2” 1/4” 1/16”

Dimensions for: 4850, 4850LCD, and 4850PoE (are the same)

***Replace “PoE” with the letters “LCD” when ordering the 24DC model***

Price:

- **4850PoE-32D** (Satin Stainless Steel – BHMA630) $495
- **4850PoE-DKBZ** (Dark Bronze Powder Coated – BHMA613E) $525
- **4850PoE-US4** (Satin Brass – BHMA606) $571
- **4850PoE-US10** (Satin Bronze – BHMA612) $571
- **4850PoE-US10B** (Dark Bronze – BHMA613) $584
- **4850PoE-32** (Polished Stainless Steel – BHMA629) $584
- **4850PoE-US3** (Bright Brass – BHMA605) $584

See Page 23 for options.
4801 - “Bolt” Strike

- For use with the Yale Squarebolt® or Corbin Russwin Securebolt™ in new or replacement installations with wood or metal door frames.

- Use with surface mounted rim device with up to 1” throw.

- Cavity Opening -
  Height: 1 17/32”
  Width: 1 5/32”

- 6-Pin Anchor system provided to handle the toughest installations.

- Electronics and BHMA rating same as the 4800F - see page 19.

*L must Install 2 middle pins on the 4801/4801LB

Price:

- 4801-32D (Satin Stainless Steel – BHMA630) $520
- 4801-DKBZ (Dark Bronze Powder Coated – BHMA613E) $545
- 4801-US4 (Satin Brass – BHMA606) $594
- 4801-US10 (Satin Bronze – BHMA612)
- 4801-US10B (Dark Bronze – BHMA613) $599
- 4801-32 (Polished Stainless Steel – BHMA629)
- 4801-US3 (Bright Brass – BHMA605) $599

Latchbolt Monitoring (LB Option)

- IR optical sensor
- Single pole, double throw, form “C” Relay, rated at 1-amp at 12-24 AC-DC
- N/O and N/C relay contacts
- Module power source
- 12-24 DC
- Current consumption is:
  12v: standby 12.7ma activate 22.8ma
  24v: standby 19.4ma activate 34.4ma
- All other features are the same as the base model.

Price:

Add “LB” to any 4800 series electric strike

- 4800FLB-32D
- 4850LB-10B
- 4801LB-32

*Must Install 2 middle pins on the 4801/4801LB

Add $99.00 to the price of the base unit.
4800 Series Accessories & Patented Anchoring System

PATENTED ANCHORING SYSTEM

• Included in every 4800 series strike.

• Prevents strike from shifting on the frame for the most secure installation.

• Two center pins suggested for installs in high traffic locations.

The Anchor System provides up to six additional points of contact for the toughest installations.

• The 4850 can have a total 8 points of connection between the frame and strike for maximum strength.

• Anchoring pins are .128” diameter. A #30 drill bit is recommended.

THE CONFIGURATION IS YOUR CHOICE

4800 Series Accessories

MWH-5
REMOVABLE MULLION WIRE HARNESS FOR 4800 SERIES ELECTRIC STRIKES

Contains:
• (1) 5’ Wire for mullion with male/female connectors.
• (1) Male connector & (1) Female connector.
• (1) Mullion cap, & (1) Wire adhesive.

Price: $20

4850-AK: ACCESSORIES KIT

Contains:
• (1) Fail safe plunger with spring & (1) Fail safe cam.
• (6) Anchoring pins. • (1) Wire connector • (2) Wire caps
• (2) ¼-20 x 1” UH Cap socket mounting screws

Price: $25

4800-AK: ACCESSORIES KIT

Contains:
• (1) Fail safe plunger with spring
• (4) Anchoring pins. • (1) Wire connector • (2) Wire caps
• (2) ¼-20 x 1” UH Cap socket mounting screws

Price: $25

4800-SS: TWO 1/16” SPACER PLATES IN 32D
Fits all 4800 Series Electric Strikes

Price: $25

4800-SS-DKBZ: TWO 1/16” SPACER IN DARK BRONZE 613E
Fits all 4800 Series Electric Strikes

Price: $34

4850-SS: 1/4” SPACER PLATE IN 32D

Price: $40

4850-SS-DKBZ: 1/4” SPACER IN DARK BRONZE 613E
Fits all 4800 Series Electric Strikes

Price: $49
THE ONE BOX SOLUTION FOR ALL GATE AND OUTDOOR INSTALLATIONS

3 HOUR FIRE RATED (except 400RP, 800, 850)
BURGLARY RATED
OUTDOOR RATED
294 RATED

EN400CMRP THE GATE “KIT” FOR ELECTRIC STRIKES

THE ONLY ELECTRIC STRIKE THAT CAN BE CHANGED BETWEEN CYLINDRICAL, MORTISE, AND RIM PANICS
Key Features

- Continuous Duty runs very cool (DC only)
- Durability of 1,000,000+ life cycles
- A holding force of 2,000+ lbs – \( \text{UL} \) Tested!
- **Fail-secure/Fail-safe is field reversible on DC units** (except on 430 & 435 models)*
- Left and Right handing is field reversible (except the offset 430 & 435 models)*
- Units install flush with face of the frame for a clean look.
- Low Current Draw (DC Models*)
  Voltage & Amp draw is the same across all EN Models

Standards

- **UL** Listed 10C - Fire-rated
  - Class A, 3-hour, single swing door (except on 400RP, 800 & 850 models)
- **UL** 1034 burglary-resistant listed and suitable for outdoor use
- **UL** 294 (6th Edition) listed
- BHMA 156.31 2001, Grade 1
- NYC MEA 79-01-E

How to Order

Please provide the following information to ensure you receive the CORRECT electric strike.

<table>
<thead>
<tr>
<th>Model #</th>
<th>Voltage</th>
<th>Finish</th>
<th>Handing</th>
</tr>
</thead>
<tbody>
<tr>
<td>400</td>
<td>12DC</td>
<td>32D</td>
<td>RH</td>
</tr>
</tbody>
</table>

*Fail Safe Request: Please add “RS” to item#

Example: 400RS-12DC-32D-RH

Add $15 to list price of base model.

Electric Characteristics

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Amps</th>
<th>Ohms</th>
<th>Duty</th>
<th>Sound</th>
</tr>
</thead>
<tbody>
<tr>
<td>12AC</td>
<td>0.70</td>
<td>4.5</td>
<td>Intm.</td>
<td>Buzz</td>
</tr>
<tr>
<td>24AC</td>
<td>0.37</td>
<td>18.0</td>
<td>Intm.</td>
<td>Buzz</td>
</tr>
<tr>
<td>12DC</td>
<td>0.28</td>
<td>43.0</td>
<td>Intm./Cont.</td>
<td>Silent</td>
</tr>
<tr>
<td>24DC</td>
<td>0.15</td>
<td>164.0</td>
<td>Intm./Cont.</td>
<td>Silent</td>
</tr>
</tbody>
</table>

Wire Lead Color Codes

- 12AC - Blue & Orange/White
- 12DC - 2 - Orange/White
- 24AC - Blue & Black/White
- 24DC - 2 - Black/White

Need an Installation Tool

See page 51. The best way to mark and cut for the EN400 is the ANSI-HTL.
EN400CMRP

THE ONE BOX SOLUTION

THE ONLY ELECTRIC STRIKE SOLUTION
ON THE MARKET THAT CAN HANDLE

CYLINDRICAL, MORTISE,
DEADLATCHES, AND RIM PANICS

The Flexible 400CMRP Includes:

• A completed strike in the box (see bottom of page for details).

• An additional strike latch to handle mortise, cylindrical, and rim panic strikes.

• The EN400-Gatebox - Mount the strike anywhere.

• The EN-24DC-CA - change voltage in the field.

• Fail safe/Fail secure field reversible.

• Always Low Current Draw

EN400-Gatebox

Install the EN400CMRP anywhere on the frame or post.

Steel gatebox is unfinished.

Price:

400CMRP-32D  (Satin Stainless Steel – BHMA630)      $515
- unit comes as a 400-12DC-32D-RH; RP (rim panic) latch and 24DC coil are in the box.

400RPCM-32D  (Satin Stainless Steel – BHMA630)      $515
- unit comes as a 400RP-24DC-32D-RH; CM (cylindrical/mortise) latch and 12DC coil are in the box.

Aluminum gatebox available (see pg 31).
EN400

- Use with Cylindrical and Mortise Locks.
- Perfect for exterior doors and gates.
- Latch Shim Kit provided for horizontal cavity adjustment.
- Field reversible handing – remember to pick a specific hand when ordering to save time.

**Price:** Refer to pg 25 for “How to Order”

<table>
<thead>
<tr>
<th>Finish</th>
<th>400-32D</th>
<th>400RP-32D</th>
</tr>
</thead>
<tbody>
<tr>
<td>400-US3</td>
<td>$420</td>
<td>$420</td>
</tr>
<tr>
<td>400-US4</td>
<td></td>
<td>$475</td>
</tr>
<tr>
<td>400-US10</td>
<td></td>
<td>$475</td>
</tr>
<tr>
<td>400-US10B</td>
<td></td>
<td>$475</td>
</tr>
<tr>
<td>400-32</td>
<td></td>
<td>$475</td>
</tr>
</tbody>
</table>

EN400-Gatebox $40 EN400-Gatebox-AL $65

EN400RP

- Use with rim panic devices
- Perfect for exterior doors and gates.
- Field reversible handing – remember to pick a specific hand when ordering to save time.
- The Outdoor Rim Panic Solution

**Price:** Refer to pg 25 for “How to Order”

<table>
<thead>
<tr>
<th>Finish</th>
<th>400RP-32D</th>
<th>400RP-32D</th>
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</thead>
<tbody>
<tr>
<td>400RP-US3</td>
<td>$420</td>
<td>$420</td>
</tr>
<tr>
<td>400RP-US4</td>
<td></td>
<td>$475</td>
</tr>
<tr>
<td>400RP-US10</td>
<td></td>
<td>$475</td>
</tr>
<tr>
<td>400RP-US10B</td>
<td></td>
<td>$475</td>
</tr>
<tr>
<td>400RP-32</td>
<td></td>
<td>$475</td>
</tr>
</tbody>
</table>

EN400-Gatebox $40 EN400-Gatebox-AL $65

(Not UL 10C listed)

www.trineonline.com
EN Series

EN430 - CAVITY CENTERLINE OFFSET 1"

For new or replacement installations in metal jambs. Use with mortise lock latchbolts with up to 7/8” throw without relocating centerline. Based on 1/8” door gap.

Latch Shim Kit provided for horizontal cavity adjustment.

Designed to work with Schlage L Series, Sargent 7700, 8100, & Yale 8700

Price:
430-32D $440
(Satin Stainless Steel – BHMA630)

The following finishes are:
• 430-US3 $490
(Bright Brass – BHMA605)
• 430-US4 $490
(Satin Brass – BHMA606)
• 430-US10 $490
(Satin Bronze – BHMA612)
• 430-US10B $490
(Dark Bronze – BHMA613)
• 430-32 $490
(Polished Stainless – BHMA629)

The EN430 is handed, please specify LH or RH

EN435 - CAVITY CENTERLINE OFFSET 3/4"

For new or replacement installations in metal jambs. Use with mortise lock latchbolts with up to 7/8” throw without relocating centerline. Based on 1/8” door gap.

Latch Shim Kit provided for horizontal cavity adjustment.

Designed to work with Arrow, Falcon, Sargent 7800, 8200, 9200, Yale 8800

Factory tested by Best® to work with the 45H Series.

Price:
435-32D $440
(Satin Stainless Steel – BHMA630)

The following finishes are:
• 435-US3 $490
(Bright Brass – BHMA605)
• 435-US4 $490
(Satin Brass – BHMA606)
• 435-US10 $490
(Satin Bronze – BHMA612)
• 435-US10B $490
(Dark Bronze – BHMA613)
• 435-32 $490
(Polished Stainless – BHMA629)

The EN435 is handed, please specify LH or RH

EN800 – GREAT FOR OUTDOOR GATES

For new or replacement installations in wood or metal single door jambs. Use with surface mounted rim exit devices with up to 1” throw. 3/4” thick face plate.

(Not UL 10C Listed)

Works with Rim Panic Exit Devices

Price:
800-32D $465
(Satin Stainless Steel – BHMA630)

The following finishes are:
• 800-US3 $510
(Bright Brass – BHMA605)
• 800-US4 $510
(Satin Brass – BHMA606)
• 800-US10 $510
(Satin Bronze – BHMA612)
• 800-US10B $510
(Dark Bronze – BHMA613)
• 800-32 $510
(Polished Stainless – BHMA629)
EN850 – GREAT FOR OUTDOOR GATES

For new or replacement installations in wood or metal single door jambs. Use with surface mounted rim exit devices with up to 1” throw. 1/2” thick face plate.

(Not UL 10C Listed)

Works with Rim Panic Exit Devices.

EN950 – FITS FOLGER ADAM® 310-2 CUTOUT

For new or replacement installations in metal or wood jambs. Use with mortise exit devices, mortise locks without dead bolts and cylindrical locksets with up to 7/8” throw. Based on 1/8” door gap.

Latch Shim Kit provided for horizontal cavity adjustment.

EN960 – FITS FOLGER ADAM® 310-2 3/4” CUTOUT

For new or replacement installations in metal or wood jambs. Use with mortise exit devices, mortise locks without dead bolts and cylindrical locksets with up to 7/8” throw. Based on 1/8” door gap.

Latch Shim Kit provided for horizontal cavity adjustment.
**EN Latchbolt Monitoring**

**The NEW LBSM for the 400, 950, 960**

- Latchbolt monitoring utilizes a sealed magnetic reed switch and monitors if the lockset latch is engaged with the strike.
- Strike mechanism monitoring detects whether the strike is in the locked or unlocked position

**LBM CHARACTERISTICS:**
- CONTACT FORM: C
- CONTACT RATING: 10W
- SWITCHING VOLTAGE: 30V MAX AC/DC
- SWITCHING CURRENT: 0.5 A
- CONTACT RESISTANCE STATIC: 150 MILLIOHM
- BREAKDOWN VOLTAGE: 200 VDC
- OPERATING TEMP: -40° - 130° C
- RATE: 2,000,000+ CYCLES

**USE WITH A GATEBOX FOR ADDED FLEXIBILITY**

**TOUGH-AS-NAILS-GO-ANYWHERE-EN-SERIES**

has found a latchbolt monitor that can follow it outdoors and into the elements.

**EN-LB – LATCHBOLT MONITORING**

- Remote central station notification
- Local alarm monitoring relay
- Triggering video surveillance/recording systems
- Active relay for trap door systems

**IR optical sensor** – Adjustable sensitivity with simple screw adjustment – Single pole, double throw, Form “C” relay, rated at 1-amp at 12-24 AC/DC – N/O and N/C relay contacts – Module power source rating of 12-24VDC

**Price:**
Add “LBM” to model 400, 950, or 960

Example:
- 400LBSM-12DC-32D add $99 to the price of the base unit.

**FOR 430 & 435 ONLY**

**Price:**
Add “LB” to a 430 or 435 electric strike

Examples:
- 430LB-12DC-32D add $95 to the price of the base unit.

Current consumption is: 0.034 amps at 12VDC & 0.045 amps at 24VDC
## EN Series Accessories

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC-100</td>
<td>External unit that operates on 11 through 29 AC/DC input and provides inductive kickback and surge protection. When used with the EN Series, 12DC must be selected and the LC100 must be located within 10’ of the electric strike.</td>
<td>$45</td>
</tr>
<tr>
<td>EN-CA-12DC</td>
<td>Coil Assembly (Orange/White Wire Leads)</td>
<td>$41</td>
</tr>
<tr>
<td>EN-CA-24DC</td>
<td>Coil Assembly (Black/White Wire Leads)</td>
<td>$41</td>
</tr>
<tr>
<td>EN-CA-12AC</td>
<td>Coil Assembly (Blue/Orange &amp; White Wire Leads)</td>
<td>$41</td>
</tr>
<tr>
<td>EN-CA-24AC</td>
<td>Coil Assembly (Blue/Black &amp; White Wire Leads)</td>
<td>$41</td>
</tr>
<tr>
<td>EN-SLR-RS</td>
<td>(1) Fail Safe Slider for 430/435 Units</td>
<td>$30</td>
</tr>
<tr>
<td>TRS</td>
<td>(2) Tamper-Resistant Torx® #12-24 Screws</td>
<td>$6</td>
</tr>
<tr>
<td>EN-TS</td>
<td>Trim Skirt (Not for use with 950 &amp; 960)</td>
<td>$20</td>
</tr>
<tr>
<td>EN-LSK</td>
<td>EN Latch Shim Kit for horizontal cavity adjustment.</td>
<td>$10</td>
</tr>
<tr>
<td>ESK-1</td>
<td>EN Service Kit:</td>
<td>$10</td>
</tr>
<tr>
<td></td>
<td>• (1) Latch spring</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• (2) PFH 12-24x1” mounting screws &amp; (2) PFH 6-32 x 1/8” cover screws</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• (2) Wire nut caps &amp; (1) assembly pin and instruction sheet</td>
<td></td>
</tr>
<tr>
<td>BZ-12</td>
<td>Buzzer for 12 DC operation</td>
<td>$14</td>
</tr>
<tr>
<td>BZ-24</td>
<td>Buzzer for 24 DC operation</td>
<td>$14</td>
</tr>
<tr>
<td>EN400-Gatebox</td>
<td>The weldable gate box solution for use with the EN400 &amp; EN400RP Outdoor rated electric strikes. (Steel gatebox is Not Finished).</td>
<td>$45</td>
</tr>
<tr>
<td>EN400-Gatebox-AL</td>
<td>The aluminum gate box solution for use with the EN400 &amp; 400RP.</td>
<td>$75</td>
</tr>
</tbody>
</table>

### Dimensions

**EN400-Gatebox & EN400-Gatebox-AL**

- **EN400-Gatebox**
  - Width: 2 3/8”
  - Height: 7/8”
  - Depth: 3 3/8”

- **EN400-Gatebox-AL**
  - Width: 2 3/8”
  - Height: 7/8”
  - Depth: 3 11/16”

[www.trineonline.com](http://www.trineonline.com)
THE ONE BOX SOLUTION
THE SMALLEST ELECTRIC STRIKE
IN THE WORLD

THE *NEW* 323478F-LC
FIRE RATED CYLINDRICAL LOCK SOLUTION

THE SMALLEST ELECTRIC STRIKE
IN THE WORLD
IS NOW FIRE RATED
Key Features
- GRADE 1
- Accepts up to 5/8” latch throw
- 500,000 + life cycles
- 1,500 + lbs. holding force (1,200 lbs. for 334, 3234W)
- Dynamic Force 70 ft/lb.
- Fail-secure - standard action (unlocks with power)
- Fail-safe Option - “RS” (locks with power)

Standards
- BHMA - A156.31
- BHMA Grade 1 - All models (except 334)
- BHMA Grade 2 - 334

Note: 3000 series not recommended for use on uncovered exterior doors.

LC100
An external line conditioner regulating input voltages, 11-29 AC/DC, and conditions the output for the activation period. Reduces holding voltage for continuous operation and reduced heat. Provides current/voltage surge & kickback protection.

Options
Piezo Buzzer for “Standard Models”
- BZ-12: Audible buzzer for 12DC power
- BZ-24: Audible buzzer for 24DC power

Piezo Buzzer for “LC Models”
- BZ-6: Audible buzzer for 6DC power

3000-AK: Accessories Kit for the 3000 series:
Includes: (2) 1/8” strike shims. (2) 1/16” faceplate shims
(2) 1/8” Horizontal adjustment tabs. (2) Long faceplate screws. (2) Short faceplate screws.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>VOLTAGE</th>
<th>CURRENT/AMPS</th>
<th>OHMS</th>
<th>DUTY</th>
<th>SOUND</th>
<th>WIRE COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>3012</td>
<td>12VDC</td>
<td>.480</td>
<td>25</td>
<td>Intermittent</td>
<td>Silent</td>
<td>Blue</td>
</tr>
<tr>
<td>3024</td>
<td>24VDC</td>
<td>.240</td>
<td>100</td>
<td>Intermittent</td>
<td>Silent</td>
<td>White</td>
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<table>
<thead>
<tr>
<th>MODEL</th>
<th>VOLTAGE</th>
<th>PULL IN/HOLD AMPS</th>
<th>OHMS</th>
<th>DUTY</th>
<th>SOUND</th>
<th>WIRE COLOR</th>
</tr>
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<tbody>
<tr>
<td>30LC/</td>
<td>12VDC</td>
<td>.743/.298</td>
<td>13</td>
<td>Intermittent/Continuous</td>
<td>Silent</td>
<td>Red</td>
</tr>
<tr>
<td>30RS</td>
<td>12VAC</td>
<td>.715/.277</td>
<td>13</td>
<td>Intermittent/Continuous</td>
<td>Silent</td>
<td>Red</td>
</tr>
<tr>
<td></td>
<td>24VDC</td>
<td>.397/.170</td>
<td>13</td>
<td>Intermittent/Continuous</td>
<td>Silent</td>
<td>Red</td>
</tr>
<tr>
<td></td>
<td>24VAC</td>
<td>.378/.173</td>
<td>13</td>
<td>Intermittent/Continuous</td>
<td>Silent</td>
<td>Red</td>
</tr>
</tbody>
</table>

3012 & 3024 Mechanism

30LC & 30RS Mechanism

The LC100 can be used on the 30LC & 30RS ONLY and placed up to 15’ feet away!

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Function</th>
<th>Duty</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>3012</td>
<td>12DC</td>
<td>Fail Secure</td>
<td>Intermittent</td>
<td>$145</td>
</tr>
<tr>
<td>3024</td>
<td>24DC</td>
<td>Fail Secure</td>
<td>Intermittent</td>
<td>$145</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item</th>
<th>Voltage</th>
<th>Function</th>
<th>Duty</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>30LC</td>
<td>11-29AC/DC</td>
<td>Fail Secure</td>
<td>Continuous</td>
<td>$179</td>
</tr>
<tr>
<td>30RS</td>
<td>11-29AC/DC</td>
<td>Fail Safe</td>
<td>Continuous</td>
<td>$179</td>
</tr>
</tbody>
</table>

Now pick a Faceplate - starting on page 36
www.trineonline.com
**NEW** FIRE RATED
SMALLEST ELECTRIC STRIKE IN THE WORLD

323478F-LC

- 1” Total Backset
- 1/8” Horizontal Adjustment
- All stainless steel construction
- 12-24 AC & DC - surge & kickback protection
- Includes LC100 & Trim skirt (CCFP)

Standards:
- 3-hour fire rated – UL10C, Fire Tests of Door Assemblies.
- ANSI/BHMA A156.31-2007

NOTE: WH fire listing is void when using fail safe action.

Refer to pg 33 for electrical characteristics.

Price:
- 323478F-LC-32D (Satin Stainless Steel – BHMA630) $399
- 323478F-LC-DKBZ (Dark Bronze Powder Coat) $419

The most flexible system with depth, ramp, and horizontal adjustments.

323478FX-LC

- As above.
- Contains the 478X-375 Faceplate for Timely®/Redi®/Raco Frames (instead of the 478 Faceplate.)

Refer to pg 33 for electrical characteristics.

Price:
- 323478FX-LC-32D (Satin Stainless Steel – BHMA630) $409
- 323478FX-LC-DKBZ (Dark Bronze Powder Coat) $429

www.trineonline.com
THE SMALLEST ELECTRIC STRIKE IN THE WORLD
THE 3000 SERIES

FOR CYLINDRICAL LOCKS

323478LC KIT

323478LC Includes:
• (1) 234-26D – 2 3/4” Faceplate
• (1) 234X-375-26D – 2 3/4” Faceplate with extended ramp
• (1) 478-32D – 4 7/8” Faceplate
• (1) 478-CCFP - Competitor Cutout Filler Plate
• (1) 30LC - 11-29 AC & DC Mechanism

234-26D
For the smallest electric strike cutout!

478-CCFP
Covers the cutout left by competitor strikes. See pg 36 for more details

478-32D
Patented horizontal adjustment feature – guaranteed not to move!

30LC
Designed for Timely®/Redi® Frames. Great for Wood!

Price: $230

FOR DEADLATCHES AND ALUMINUM FRAMES

3258458LC KIT

3258458LC Includes:
• (1) 258 – 2 3/4” Faceplate
• (1) 458LH – 4 5/8” Left Handed Faceplate
• (1) 458RH – 4 5/8” Right Handed Faceplate
• (1) 30LC - 11-29 AC & DC Mechanism

258

458LH

458RH

234X-26D

80% LESS FRAME CUTTING.

Smallest aluminum solution available - Great for glass store fronts

30LC
Fills frame preparation for many Adams Rite® Locks without relocating tabs.

Price: $260

Need an Installation Tool
See page 51 The best way to mark and cut in the 323478-LC is the ANSI-ITL.

Finishes:
• 3258458LC-ALUM (Aluminum Powder Coat)
• 3258458LC-DKBZ (Dark Bronze Powder Coat)

www.trineonline.com
THE SMALLEST ELECTRIC STRIKE IN THE WORLD
THE 3000 SERIES

478
Adjustable 4-7/8" ANSI standard faceplate

For new or replacement installation in wood, metal or aluminum frames. Use with cylindrical locksets having up to 5/8" throw, based on 1/8" door gap.

*1/8" horizontal adjustment guaranteed to never move.

478-CCFP
INCLUDED WITH THE 478 FACEPLATE!
Competitor Cutout Filler Plate

Stainless plate designed to fill in the hole left by competitor models.

60% LESS CUTTING of Frame Face for ANSI 4 7/8" pre-prep frames.
No ugly black ramp!

Price:

<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>478-32D</td>
<td>$34</td>
<td>Satin Steel</td>
</tr>
<tr>
<td>478-32</td>
<td>$58</td>
<td>Polished</td>
</tr>
<tr>
<td>478-US10B</td>
<td>$50</td>
<td>Dark Bronze</td>
</tr>
<tr>
<td>478-US3</td>
<td>$64</td>
<td>Bright Brass</td>
</tr>
<tr>
<td>478-US4</td>
<td>$52</td>
<td>Satin Brass</td>
</tr>
</tbody>
</table>

RD (Radiused Corners) add $5

478RO and 478LO (drop plates) are same cost as above.

Match with any 3000 Mechanism: 3012, 3024, 30LC, 30RS

Need an Installation Tool
See page 51 The best way to mark and cut in the 323478-LC is the ANSI-ITL.

www.trineonline.com
478X-375
Adjustable Extended Lip Faceplate

Frame features an extended ramp to accommodate additional face of Timely®/Redi®/Raco® frames. Use with cylindrical locksets and deadlatches having up to 5/8” throw, based on 1/8” door gap.

Provides a finished look for wood frames with trim.

Made for Timely®/Redi®/Raco® Frames

GOODBYE UNATTRACTIVE BLACK RAMPS!
- Extended ramp (.375”) accommodates snap-on additional frame face of Timely® & Redi® Frames.
- Eliminates traditional 4 7/8” ANSI strike cutting and black ramp extensions.
- 1/8” Horizontal Adjustments help prevent door pre-load.

See page 43 for wood and metal frame preps.

478LO / 478RO Faceplate
Same dimensions as 478 - except 3/16” cavity offset.

60% LESS FRAME CUTTING of Frame Face for ANSI 4 7/8” pre-prep frames. The strike opening on this face plate is offset by 3/16” from the center to accommodate door sag for the 478 (just change faceplates, and use the same mechanism)

Accommodates for door sag.

Price:
478X-375-32D (Satin Stainless Steel – BHMA630) $48
478X-375-US10B (Dark Bronze – BHMA613) $64
478X-375-US3 (Bright Brass – BHMA605) $71
RD (Radiused Corners) add $5

Need Fire Rated? See pg 34 for the 323478FX-LC 3 hour fire rated version

www.trineonline.com
THE SMALLEST ELECTRIC STRIKE IN THE WORLD

THE 3000 SERIES

234 Faceplate - Smallest Electric Strike in the World

For new or replacement installations in metal frames. Use with cylindrical locksets having up to 5/8” throw, based on 1/8” door gap.

Price:
- 234-26D (Satin Chrome – BHMA651) $23
- 234-US10B (Dark Bronze – BHMA613) $26
- 234-US3 (Bright Brass – BHMA605) $34
- 234-US4 (Satin Brass – BHMA606) $26

Match with any 3000 Mechanism: 3012, 3024, 30LC, 30RS

234X-375 Extended Faceplate

Standard ANSI prep features an extended ramp to accommodate additional face of Timely®/Redi® frames. Ramp is extended 3/8”. For new or replacement installations. Use with cylindrical locksets having up to 5/8” throw, based on 1/8” door gap.

Price:
- 234X-375-26D (Satin Chrome – BHMA651) $28
- 234X-375-US10B (Dark Bronze – BHMA613) $31
- 234X-375-US3 (Bright Brass – BHMA605) $38

Match with any 3000 Mechanism: 3012, 3024, 30LC, 30RS

Great for wood frames!

Made for Timely®/Redi® Frames

334 Faceplate

For new or replacement installations in wood frames. Use with cylindrical locksets with up to 5/8” throw, based on 1/8” door gap.

Price:
- 334-26D (Satin Chrome – BHMA651) $28
- 334-US3 (Bright Brass – BHMA605) $32
- 334-US4 (Satin Brass – BHMA606) $28

Match with any 3000 Mechanism: 3012, 3024, 30LC, 30RS

www.trineonline.com
258 Faceplate

80% less frame cutting when compared to typical 4 7/8" electric strike installations.

For new or replacement installations in aluminum frames. Use with 4510, 4710 & 4750 Adams Rite® dead latches. Replaces 4502 strike plate with slight modification.

Price:

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>258-26D</td>
<td>Satin Chrome – BHMA651</td>
<td>$30</td>
</tr>
<tr>
<td>258-US10B</td>
<td>Dark Bronze – BHMA613</td>
<td>$33</td>
</tr>
</tbody>
</table>

Match with any 3000 Mechanism: 3012, 3024, 30LC, 30RS

258RD Radius Faceplate

80% less door cutting when compared to typical 4 7/8" electric strike installations.

For new or replacement installations in aluminum doors. Use with 4510, 4710 & 4750 Adams Rite® dead latches. Replaces 4502 & 4900 strike plate with slight modification.

Price:

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>258RD-26D</td>
<td>Satin Chrome – BHMA651</td>
<td>$30</td>
</tr>
<tr>
<td>258RD-US10B</td>
<td>Dark Bronze – BHMA613</td>
<td>$33</td>
</tr>
</tbody>
</table>

Match with any 3000 Mechanism: 3012, 3024, 30LC, 30RS

458 Faceplate

80% LESS FRAME CUTTING.

Fills the frame preparation of Adams Rite® MS Locks without relocating tabs for 6 7/8" electric strikes. For new or replacement installations in aluminum frames. Replaces Adams Rite® 4730/4501 strike plate with slight frame modification.

Price:

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>458-ALUM</td>
<td>Aluminum Powder Coat</td>
<td>$54</td>
</tr>
<tr>
<td>458-DKBZ</td>
<td>Dark Bronze Powder Coat</td>
<td>$54</td>
</tr>
</tbody>
</table>

Match with any 3000 Mechanism: 3012, 3024, 30LC, 30RS

**Must Specify Handing**

RH or LH

Note: Faceplates are now powder coated.
3000 SERIES STRIKES REDUCE AMOUNT OF LABOR, TIME, AND MATERIAL LOST ON DOOR FRAME

Note: 3000 series strikes not recommended for use on uncovered exterior doors.

www.trineonline.com
234 & 323478F-LC
HOLLOW METAL FRAME

234X-375 & 323478FX-LC
TIMELY®/REDI®/RACO® FRAMES

234 WOOD FRAME

234X-375 WOOD FRAME

NOTE: USE 2 INCH LONG (OR LONGER) WOOD SCREWS FOR MOUNTING.

www.trineonline.com
FRAME PREPS
THE 3000 SERIES

258 ALUMINUM FRAME

Radius of faceplate matches the radius surface of the door.

258RD ALUMINUM DOORS

NOTE: USE 2 INCH LONG (OR LONGER) WOOD SCREWS FOR MOUNTING.

458 ALUMINUM FRAME

LEFT HAND SHOWN

334 WOOD FRAME

www.trineonline.com
478
WOOD FRAME

NOTE: USE 2 INCH LONG (OR LONGER) WOOD SCREWS FOR MOUNTING.

478X-375
WOOD FRAME

BEST LOOKING WOOD INSTALLATION

NOTE: USE 2 INCH LONG (OR LONGER) WOOD SCREWS FOR MOUNTING.

478 & 323478F-LC
HOLLOW METAL FRAME

NO UGLY BLACK RAMPS!

478X-375 & 323478FX-LC
TIMELY®/REDI®/RACO® FRAMES

www.trineonline.com
Light Commercial Electric Strikes

What started it all!
Light Commercial Electric Strikes

**FEATURES**
- Durability - 500,000 Life Cycles
- Holding Force - 1000 lbs
- Only 1 Moving Part Locking Mechanism
- Non-Handed Operation
- Heavy Duty Latch Spring
- Fail Secure-Standard Action

**001**
For use in new or replacement installations in wood and metal jambs. For use with locksets having up to 5/8" throw, based on 1/8" door gap.

Face Plate 5-7/8" x 1-1/4" – Mortise Backset 1-9/16" – Cavity Depth 1/2" – Cavity Width 9/16" – Cavity Height 1-1/2"

Price:
- **001** (Brass Powder Coated) $51
- **001C** (Satin Chrome – BHMA651) $58
- RS (Fail Safe) - For DC Models only. add $20

**002**
For use in new or replacement installations in wood and metal jambs. Auxiliary lever ramps for use with locksets which contain dead locking levers. Use with locksets having up to 5/8" throw, based on 1/8" door gap.

Face Plate 7-15/16" x 1-7/16" – Auxiliary Ramp 2-7/8" – Mortise Backset 1-9/16" – Cavity Depth 1/2" – Cavity Width 9/16" – Cavity Height 1-1/2"

Price:
- **002** (Aluminium Powder Coated) $82
- **002DB** (Dark Bronze Powder Coated) $87
- RS (Fail Safe) - For DC Models only. add $20

**003**
For surface mount installations on wood or metal jambs for in swinging applications with surface mount. Use with locksets and night latches having up to 5/8" throw, based on 1/8"door gap. When mounted on a pair of doors, strike is mounted to the inactive leaf.

Surface Mount – Case 4-11/16" x 1-1/4" – Cavity Depth 1/2" – Cavity Width 9/16" – Cavity Height 1-1/2"

Price:
- **003** (Grey Moulded Cover) $91
- RS (Fail Safe) - For DC Models only. add $20

**004**
For new or replacement installations in wood jambs. Use with locksets with individual dead bolts. **Dead bolts cannot be released electrically.** Use with locksets having up to 5/8" throw, based on 1/8" door gap.

Face Plate 6-1/4" x 1-3/8" – Dead bolt Knockouts Top & Bottom 1-11/16" x 9/16" – Mortise Backset 2-3/4" – Cavity Depth 1/2" – Cavity Width 9/16" – Cavity Height 1-1/2"

Price:
- **004** (Brass Powder Coated) $95
- **004C** (Satin Chrome – BHMA651) $100
- **004DB** (Dark Bronze Powder Coated) $100
- RS (Fail Safe) - For DC Models only. add $20

www.trineonline.com
### 00 Series

**005**
For use in replacement installations in wood jambs and iron gates. Use with bored cylindrical locksets having up to 5/8” throw, based on 1/8” door gap.

**Face Plate** 3-1/2” x 1-3/8” – Mortise Backset 2-3/4” – Cavity Depth 1/2” – Cavity Width 9/16” – Cavity Height 1-1/2”

**Price:**
- 005 (Brass Powder Coated) $62
- 005C (Satin Chrome – BHMA651) $68
- RS (Fail Safe) - For DC Models only. $20

**HD005**
Screwed-on Faceplate and reinforced Latch Pin provide additional strength for HEAVY DUTY installations.

For use in replacement installations in wood jambs and iron gates. Use with bored cylindrical locksets having up to 5/8” throw, based on 1/8” door gap.

**Face Plate** 3-1/2” x 1-3/8” – Mortise Backset 2-3/4” – Cavity Depth 1/2” – Cavity Width 9/16” – Cavity Height 1-1/2”

**Price:**
- HD005 (Brass Powder Coated) $80
- HD005C (Satin Chrome – BHMA651) $86
- RS (Fail Safe) - For DC Models only. $20

**S005**
For use in replacement installations in wood jambs and iron gates. Use with bored cylindrical locksets having up to 3/4” throw, based on 1/8” door gap.

**Face Plate** 3-1/2” x 1-3/8” – Mortise Backset 2-7/8” – Cavity Depth 5/8” – Cavity Width 23/32” – Cavity Height 1-1/2”

**Price:**
- S005 (Brass Powder Coated) $72
- S005C (Satin Chrome – BHMA651) $79
- RS (Fail Safe) - For DC Models only. $20

**006**
For surface mount installations on metal or wood jambs, for in swinging applications. Use with locksets or night latches having up to 5/8” throw, based on 1/8” door gap. When mounted on a pair or doors, strike is mounted to the inactive leaf.

**Case** 2-1/8” x 1-3/16” – Surface Mounted – Die Cast Housing – Cavity Depth 1/2” – Cavity Width 1/2” – Cavity Height 1-3/8”

**Price:**
- 006 (Brass Powder Coated) $99
- RS (Fail Safe) - For DC Models only. $20

**007**
For use in new or replacement installations in wood jambs. Use with locksets having up to 3/4” throw, based on 1/8” door gap.

**Face Plate** 4-7/8” x 1-1/4” – Mortise Backset 2-7/8” – Cavity Depth 5/8” – Cavity Width 3/4” – Cavity Height 1-1/2

**Price:**
- 007 (Brass Powder Coated) $99
- 007C (Satin Chrome – BHMA651) $104
- RS (Fail Safe) - For DC Models only. $20
# Light Commercial Electric Strikes

## ANSI 01 Series

### FEATURES
- Durability - 300,000 Life Cycles
- Holding Force - 1200 lbs
- Solid Brass Locking System
- Cast Steel Latch
- Heavy Duty Latch Spring

### Voltage | Current/Amps | Ohms | Sound | Duty
---|---|---|---|---
10-16VAC | 0.60 - 0.90 | 10.0 | Buzz | Intermittent
12VDC | 0.50 | 10.0 | Silent | Intermittent
24VAC | 0.42 | 47.0 | Buzz | Intermittent
24VDC | 0.20 | 119.0 | Silent | Continuous

### Voltage | Current/Amps | Ohms | Sound | Duty
---|---|---|---|---
10-16VAC | 0.82 - 1.44 | 6.8 | Buzz | Intermittent
12VDC | 0.184 | 65.0 | Silent | Continuous
24VAC | 0.895 | 14.0 | Buzz | Intermittent
24VDC | 0.100 | 240.0 | Silent | Continuous

### Price:
- **012** (Brass Powder Coated) $118
- **012C** (Satin Chrome – BHMA651) $122
- **RS** (Fail Safe) add $30

### 012
For new or replacement installations in metal jambs. Use with locksets having up to **5/8” throw**, based on **1/8” door gap**.
- **Face Plate** 4-7/8” x 1-1/4”
- **Mortise Backset** 1-5/8”
- **Cavity Depth** 9/16”
- **Cavity Width** 9/16”
- **Cavity Height** 1-1/2”

### 014
For new or replacement installations in metal jambs. Use with locksets having up to **5/8” throw**, based on **1/8” door gap**.
- **Face Plate** 2-3/4” x 1-1/8”
- **Mortise Backset** 1-1/4”
- **Cavity Depth** 1/2”
- **Cavity Width** 5/8”
- **Cavity Height** 1-1/8”

### Price:
- **014** (Brass Powder Coated) $94
- **014C** (Satin Chrome – BHMA651) $100
The Adjustable 2000 Series

FEATURES
- Allows adjustment for wider latch bolts & poorly aligned doors & locksets
- 1/8" Horizontal Latch Adjustment
- Releases Under Slight Door Preload
- Life Cycles - 500,000
- Holding Force - 900 lbs
- Solid Cast Latch - Chrome Plated
- Non-Handed Operation

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Current/Amps</th>
<th>Ohms</th>
<th>Sound</th>
<th>Duty</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-14VAC</td>
<td>0.44 - 1.10</td>
<td>8.5</td>
<td>Buzz</td>
<td>Intermittent</td>
</tr>
<tr>
<td>6-14VDC</td>
<td>0.70 - 1.60</td>
<td>8.5</td>
<td>Silent</td>
<td>Intermittent</td>
</tr>
<tr>
<td>16-24VAC</td>
<td>0.22 - 0.33</td>
<td>50.0</td>
<td>Buzz</td>
<td>Intermittent</td>
</tr>
<tr>
<td>16-24VDC</td>
<td>0.32 - 0.47</td>
<td>50.0</td>
<td>Silent</td>
<td>Intermittent</td>
</tr>
<tr>
<td>12VDC</td>
<td>0.200</td>
<td>60.0</td>
<td>Silent</td>
<td>Continuous</td>
</tr>
<tr>
<td>24VDC</td>
<td>0.12</td>
<td>120.0</td>
<td>Silent</td>
<td>Continuous</td>
</tr>
</tbody>
</table>

2001
For use in new or replacement wood or metal jamb installations with locksets having up to 5/8” throw, based on 1/8” door gap.

Face Plate  5-7/8” x 1-1/4” – Narrow Style Face Plate – Mortise Backset 1-9/16” – Cavity Depth 9/16” – Cavity Width 5/8” – Cavity Height 1-11/16”

Price:
- 2001 (Brass Powder Coated) $91
- 2001C (Satin Chrome – BHMA651) $97

NOT AVAILABLE IN FAIL-SAFE FUNCTION. SEE 001 ON PAGE 45

2002
For use in new or replacement, aluminum or hollow, metal jamb installations. Auxiliary lever ramps for use with locksets containing dead-locking levers. Use with latch bolts having up to 5/8” throw, based on 1/8” door gap.

Face Plate  7-15/16” x 1-7/16” – Auxiliary Ramp Height 2-7/8” – Mortise Backset 1-9/16” – Cavity Depth 9/16” – Cavity Width 5/8” – Cavity Height 1-11/16”

Price:
- 2002 (Aluminum Powder Coated) $106
- 2002DB (Dark Bronze Powder Coated) $110
- RS (Fail Safe) - For DC Models only. add $20

2002WR
For use in new or replacement, aluminum or hollow, metal jamb installations. Auxiliary lever ramps for use with locksets containing dead-locking levers. Use with locksets having up to 5/8” throw, based on 1/8” door gap.

Steel Face Plate  7-15/16” x 1-7/16” – Auxiliary Ramp Height 3-3/8” – Mortise Backset 1-9/16” – Cavity Depth 9/16” – Cavity Width 5/8” Cavity Height 1-11/16”

Price:
- 2002WR (Aluminum Powder Coated) $115
- 2002WRDB (Dark Bronze Powder Coated) $118
- RS (Fail Safe) - For DC Models only. add $20

2007
For use in new or replacement installations in metal jambs. Fits a standard 4-7/8” ANSI prep with little jamb modification. Use with locksets having up to 5/8” throw, based on 1/8” door gap.

Steel Face Plate  4-7/8” x 1-1/4” – Narrow Style Face Plate – Mortise Backset 1-9/16” – Cavity Depth 9/16” – Cavity Width 5/8” – Cavity Height 1-11/16”

Price:
- 2007 (Brass Powder Coated) $110
- 2007C (Satin Chrome – BHMA651) $115
- 2007DB (Dark Bronze Powder Coated) $115
- RS (Fail Safe) - For DC Models only. add $20
Light Commercial Electric Strikes

The Adjustable 2000 Series

2009
For use in new or replacement installations in metal jambs. Centerline of the latch is 3/8” below ANSI centerline for offset applications. Fits a standard 4-7/8” ANSI prep with little jamb modification. Use with locksets having up to 5/8” throw, based on 1/8” door gap.

Steel Face Plate 4-7/8” x 1-1/4” – Narrow Style Face Plate – Mortise Backset 1-9/16” – Cavity Depth 9/16” – Cavity Width 5/8” – Cavity Height 1-11/16”

Price:
2009 (Brass Powder Coated) $118
2009C (Satin Chrome – BHMA651) $123
2009DB (Dark Bronze Powder Coated) $123
RS (Fail Safe) - For DC Models only. add $20

2012
For use in new or replacement installations with locksets having up to 5/8” throw, based on 1/8” door gap.

Steel Face Plate 4-7/8” x 1-1/4” – Auxiliary Ramp 3-3/8” – Mortise Backset 1-9/16” – Cavity Depth 9/16” – Cavity Width 5/8” – Cavity Height 1-11/16”

Price:
2012 (Brass Powder Coated) $122
2012C (Satin Chrome – BHMA651) $122
2012DB (Dark Bronze Powder Coated) $122
RS (Fail Safe) - For DC Models only. add $20

2678
For use in new or replacement installations with locksets containing dead-locking levers. Useful when converting an MS Lock to a dead latch. Up to 5/8” throw, based on 1/8” door gap.

Face Plate 6-7/8” x 1-1/4” – Auxiliary Ramp 3-3/8” – Mortise Backset 1-9/16” – Cavity Depth 9/16” – Cavity Width 5/8” – Cavity Height 1-11/16”

Price:
2678 (Satin Aluminum – BHMA 628) $119
2678-US10B (Satin Bronze – BHMA639) $125
RS (Fail Safe) - For DC Models only. add $20

The 1000 Series

FEATURES
• Releases Under Slight Door Preload
• Taller latch cavity for easier door alignment.
• Life Cycles - 500,000
• Holding Force - 1000 lbs
• Non-Handed Operation

Voltage | Current/Amps | Ohms | Sound | Duty
--- | --- | --- | --- | ---
6-14VAC | 0.495 - 1.09 | 8.5 | Buzz | Intermittent
6-14VDC | 0.650 - 1.24 | 8.5 | Silent | Intermittent
16-24VAC | 0.270 - 0.48 | 50.0 | Buzz | Intermittent
16-24VDC | 0.380 - 0.61 | 50.0 | Silent | Intermittent

1001-2
For use in new or replacement installations in wood and metal jambs. For use with locksets having up to 5/8” throw, based on 1/8” door gap.

Steel Face Plate 5-7/8” x 1-1/4” – Narrow Style Face Plate – Mortise Backset 1-1/2” – Cavity Depth 9/16” – Cavity Width 9/16” – Cavity Height 1-11/16”

Price:
1001-2 (Brass Powder Coated) $72
1001-2C (Satin Chrome – BHMA651) $78

1002-2
For use in new or replacement installations in wood and metal jambs. Auxiliary lever ramps for use with locksets which contain dead locking levers. For use with locksets having up to 5/8” throw, based on 1/8” door gap.

Face Plate 7-15/16” x 1-7/16” – Auxiliary Ramp 2-7/8” Height – Mortise Backset 1-1/2” – Cavity Depth 9/16” – Cavity Width 9/16” – Cavity Height 1-11/16”

Price:
1002-2 (Aluminum Powder Coated) $94
1002-2DB (Dark Bronze Powder Coated) $99

www.trineonline.com
ACCESSORIES

THE COMPLETELY REDESIGNED 018-4/017TDC-4

NOW UTILIZING ROLLING CODE WITH OVER 4+ BILLION CODES AND IN A VARIETY OF COLORS.

THE IMPROVED ANSI-ITL

INSTALL 2-3/4” & 4-7/8” ELECTRIC STRIKES EASIER.

WIRELESS CHIMES

FAST AND EASY INSTALLATION
4850-ITL

“Feel” the door work with the strike on the frame... then drill.

- 4850-ITL installation tool has magnets installed which allows it to attach to steel frames, so you can:
  - Adjust and center the strike before ever drilling a hole eliminating any mistakes.
  - Increase your installation speed on every job.

- 1/4” Spacer included, so the tool becomes 3/4” thick, and is also magnetized. (screws on side anchor the spacer to the tool)

- Included custom center punch makes precise marks on the frame for drilling. Marks all anchor pin holes, mounting screws, power, and optional LB sensor.

- Patented

Price:
4850-ITL $399

To really see the POWER of the 4850-ITL watch our video...

Search “4850ITL” on Youtube

ANSI-ITL

A comprehensive installation tool for our Premium 2-3/4” and 4-7/8” ANSI electric strikes

- The ANSI-ITL installation tool was designed to allow you to easily install these popular strikes:
  - 234
  - 4100DBDL
  - 478X-375
  - 234X-375
  - 4200
  - 478
  - EN400

- Screw directly into the pre-existing tabs and mark.

- Carbide tip scribe included

- Adjustability allows for use with Timely®/Redi®/Raco® style frames.

Price:
ANSI-ITL $65

www.trineonline.com
THE NEW LATCHBOLT MONITORING SOLUTION

LBM-1
SINGLE SWITCH FOR CYLINDRICAL LOCKS

Note: LBM-1 and LBM-2 are not electric strikes and do not release a latch.

LBM-2
DOUBLE SWITCH FOR MORTISE LOCKS

The microswitch used for over 30 years...

IS A THING OF THE PAST.

The life cycle of the old microswitches is far less than the strikes they were connected to. Trine’s magnetic reed switch has a life cycle in excess of 2 million cycles.

Part of this durability lies in the moisture and weather resistant nature of the reed switch. The LBM-1 & 2 can work in environments where the old microswitches never could.

The microswitch used for over 30 years...

IS A THING OF THE PAST.

The life cycle of the old microswitches is far less than the strikes they were connected to. Trine’s magnetic reed switch has a life cycle in excess of 2 million cycles.

Part of this durability lies in the moisture and weather resistant nature of the reed switch. The LBM-1 & 2 can work in environments where the old microswitches never could.

LBM CHARACTERISTICS:

- CONTACT FORM: C
- CONTACT RATING: 10W
- SWITCHING VOLTAGE: 30V MAX AC/DC
- SWITCHING CURRENT: 0.5 A
- CONTACT RESISTANCE STATIC: 150 MILLIOHM
- BREAKDOWN VOLTAGE: 200 VDC
- OPERATING TEMP: -40° - 130° C
- RATE: 2,000,000+ CYCLES

Patent Pending

Price:

- LBM-1 $118
- LBM-2 $155

Strike Plate is not provided!
**234WB – STROBE CHIME**  “See” Your Door Ring!!

- Sound and Sight - 8 note Westminster or 2-note sound with flashing parallel light
- Simply plug-in - as many as desired wherever desired
- Volume control - adjust to desired intensity
- Up to 100 ft. operating range
- 128 selectable channels. Setting the same code on multiple devices will allow them to chime at the same time (if within range). Setting different codes will allow multiple chimes in proximity to work without interference.
- 80db at 3 feet at max setting
- 6 Foot-Candles strobe output
- FCC-IC approved, UL, CSA recognized

**Price:**

234WB $87

---

**232 – BATTERY OPERATED**

- Field selectable 2 note or 1 note
- Requires 3 “C” batteries (not included)
- Up to 100 ft operating range
- 64 selectable security codes. Setting the same code on multiple devices will allow them to chime at the same time (if within range). Setting different codes will allow multiple chimes in proximity to work without interference
- A-23 battery included
- FCC-IC approved

**Price:**

232 $31

---

**233 – PLUG IN**

- Field selectable 8 note or 2 note
- Plugs into 120VAC outlet
- 128 selectable security codes. Setting the same code on multiple devices will allow them to chime at the same time (if within range). Setting different codes will allow multiple chimes in proximity to work without interference
- Up to 100 ft. operating range
- A-23 battery included
- UL recognized, FCC-IC approved

**Price:**

233 $39
New Upgraded Wireless Controller & Transmitter

017TDC-4  –  WIRELESS CONTROLLER
NOW UTILIZING ROLLING CODE
• 500' Range
• 2 Channel receiver and transmitter
• Independently programmable A & B channel.
• 4, 8, 16 second delay or alternate action trigger
• Dry contact relay rated up to 30V @ 5 amps
• Single push button program erase (for security)
• Screw terminal connections
• Up to 8 transmitters per one receiver.
• FCC-IC approved.

• Not backwards compatible with any previous 017TDC/018 models.

018-4  –  WIRELESS TRANSMITTER
TWO BUTTON TRANSMITTER
• Four color options
• 8 transmitters per receiver.
• LED indicates operation
• Rolling Code technology provides self learning and 4+ billions codes.
• A-23 Battery Included
• FCC-IC approved

Price:
018-4-BLK $33
018-4-BLU $33
018-4-BLU $33
018-4-WHT $33

017TDC-4  –  WIRELESS TRANSMITTER
NOW UTILIZING ROLLING CODE
• 500' Range
• 2 Channel receiver and transmitter
• Independently programmable A & B channel.
• 4, 8, 16 second delay or alternate action trigger
• Dry contact relay rated up to 30V @ 5 amps
• Single push button program erase (for security)
• Screw terminal connections
• Up to 8 transmitters per one receiver.
• FCC-IC approved.

Price:
017TDC-4  $79

PLEASE SPECIFY COLOR WHEN ORDERING
206-2 – MOTION ALERT ANNUNCIATOR
• Moving objects are detected by changes in reflected light
• Battery operated with 2 “C” cells (not included)
• 3 selectable tones, 8 note melody, 2 note repeated, 2 note alternating tone
• Off, high & low volume control switch 77db (low) and 84db (high) @ 3 ft
• Durable white moulded plastic case 3-1/6” x 4-3/8” x 2-3/8”

Price: 206-2 $27

206-3 – WIRELESS ENTRY/EXIT SIGNAL KIT
• 1 note, 2 note or 8 note melody chime, field selectable
• Wireless battery-operated door contact switch A-23 battery (included)
• Up to 100ft range – 128 selectable codes. Setting the same code on multiple devices will allow them to chime at the same time (if within range). Setting different codes will allow multiple chimes in proximity to work without interference
• Receiver plugs into 120 VAC outlet
• Adjustable volume control, 74db (low) 82db (high) @ 3ft
• UL recognized, FCC-IC approved

Price: 206-3 $55

215 – WINDOW/DOOR ENTRY/EXIT SIGNAL KIT
• N/O magnetic contact switch activates alarm
• User can set for Chime or 105db alarm sound
• On/Off switch
• No wiring
• (3) L1154 batteries (included)
• Contacts provided with mounting tape

Price: 215 $11

340 – ELECTRIC DOOR SWITCH
• Face plate brass finish 4”H x 1-1/2”W
• Box 3”H x 1-3/8”W x 1-3/4”D
• Switch Rating: 120VAC, 10 Amps 250VAC, 5 Amps
• Field selectable N/C or N/O
• Stamped steel case – UL, CSA listed switch & wire leads
• Faceplate Powder Coated Brass
• 4 - knockouts 7/8”

Price: 340 $20

342 – ELECTRIC DOOR SWITCH (NARROW STYLE)
• Face plate brass finish 3-7/8”H x 1-1/4”W
• Box 2-5/8”H x 1-3/16”W x 2-1/8”D
• Switch Rating: 120VAC, 10 Amps 250VAC, 5 Amps
• Field selectable N/C or N/O
• Stamped steel case – UL, CSA listed switch & wire leads
• Faceplate Powder Coated Brass
• 4 - knockouts 7/8”

Price: 342 $20
## Door Chimes, Bells, Buzzers, & Chime Kits

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Features</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>201</td>
<td>CHIME KIT</td>
<td>(1) White chime base, (2) Unlighted 66W white push buttons, and (1) 16VAC-10VA Hard wire transformer.&lt;br&gt;Mounting hardware included, excluding wire.&lt;br&gt;Offers 2 note front door/1 note rear door ability.</td>
<td>$27</td>
</tr>
<tr>
<td>203</td>
<td>CHIME KIT</td>
<td>(1) White chime base, (1) Lighted 45LG push button, and (1) 16VAC-10VA Hard wire transformer.&lt;br&gt;Mounting hardware included, excluding wire.&lt;br&gt;Offers 2 note front door/1 note rear door ability.</td>
<td>$27</td>
</tr>
<tr>
<td>240</td>
<td>CHIME</td>
<td>Chime base with solid white cover.&lt;br&gt;Offers 2 note front door/1 note rear door ability.&lt;br&gt;Operating voltage 12-16VAC – Mounting base hardware provided.&lt;br&gt;80 db sound at 3 feet – Outer dimension 7-1/4” x 4-3/4” x 1-7/8”.</td>
<td>$28</td>
</tr>
<tr>
<td>296</td>
<td>CHIME</td>
<td>Chime base with solid white cover.&lt;br&gt;Offers 2 note front door/1 note rear door ability.&lt;br&gt;Operating voltage 12-16VAC – Mounting base hardware included.&lt;br&gt;75db sound at 3 feet – Outer dimension 1-1/8” x 4” x 2”.</td>
<td>$19</td>
</tr>
<tr>
<td>270</td>
<td>BUZZER</td>
<td>Enclosed buzzer – 92db sound at 3 feet.&lt;br&gt;Operating range 3-6VDC, 8-16 VAC, 1 Amp draw.&lt;br&gt;Aluminum powder coat finish.&lt;br&gt;Includes mounting hardware.</td>
<td>$15</td>
</tr>
<tr>
<td>272</td>
<td>BELL</td>
<td>100 db sound at 3 feet – 2-1/2” open bell.&lt;br&gt;Operating range 3-6VDC, 8-16 VAC, 1 Amp draw.&lt;br&gt;Aluminum powder coat finish.&lt;br&gt;Includes mounting hardware.</td>
<td>$17</td>
</tr>
<tr>
<td>274</td>
<td>BELL</td>
<td>100 db sound at 3 feet – 4” open bell.&lt;br&gt;Operating range 3-6VDC, 8-16 VAC, 1 Amp draw.&lt;br&gt;Aluminum powder coat finish.&lt;br&gt;Includes mounting hardware.</td>
<td>$19</td>
</tr>
<tr>
<td>275</td>
<td>ENCLOSED BELL</td>
<td>88 db at 3 feet.&lt;br&gt;Operating range: 3-8VDC, 1.4 Amp draw.&lt;br&gt;6-8VAC, 0.7 Amp draw.&lt;br&gt;Grey finish – Includes mounting hardware.</td>
<td>$21</td>
</tr>
<tr>
<td>276</td>
<td>ENCLOSED BELL &amp; BUZZER</td>
<td>88 db at 3 feet.&lt;br&gt;Operating range: 3-8VDC, 1.4 Amp draw.&lt;br&gt;6-8VAC, 0.7 Amp draw.&lt;br&gt;Grey finish – Includes mounting hardware.</td>
<td>$25</td>
</tr>
</tbody>
</table>
For electric strikes, bells, buzzers, chimes, and other low voltage devices. A complete line of U.L. Listed step down transformers. Easy to install, low voltage, 120AC primary for residential, commercial and industrial uses. Transformers will safely take themselves off line when they overheat. Transformers can be either base mounted or attached to standard knockouts on boxes or cabinets (except plug-in types.) All primary leads are pre-stripped for quick connection.

522 – (1) – LOCKNUT TYPE (AC)
- For standard 1/2” knockouts
- 2-5/32”D x 2-1/2”H x 2”W 8oz
- Electric Characteristics: 16VAC -- 10VA -- 0.625 AMPS
- 120 volt primary AC

Price: 522 $16

525 – (2) – CLAMP ON TYPE/TRI VOLT (AC)
- Equipped with convenient screw-bracket mounting clamp for standard 1/2” knockouts
- 120 volt primary AC
- Electric Characteristics:
  - 8VAC -- 10VA -- 1.25 AMPS
  - 16VAC -- 10VA -- 0.62 AMPS
  - 24VAC -- 20VA -- 0.83 AMPS

Price: 525 $24

598 – (2) – CLAMP ON TYPE/TRI VOLT (AC)
- Equipped with convenient screw-bracket mounting clamp for standard 1/2” knockouts
- 120 volt primary AC
- Electric Characteristics:
  - 24VAC -- 40VA -- 1.65 AMPS

Price: 598 $27

5201 – (3) – PLUG IN TYPE (AC)
- 120 volt primary AC
- Electric Characteristics:
  - 2”D x 3”H x 2-1/2”W 7oz

Price: 5201 $24

5203 – (3) – PLUG IN TYPE (AC)
- 120 volt primary AC
- Electric Characteristics:
  - 16VAC -- 20VA -- 1.250 AMPS

Price: 5203 $24

5204 – (3) – PLUG IN TYPE (AC)
- 120 volt primary AC
- Electric Characteristics:
  - 16VAC -- 20VA -- 1.667 AMPS

Price: 5204 $24

5205 – (4) – PLUG IN TYPE/TRI VOLT (AC)
- 120 volt primary AC
- Electric Characteristics:
  - 8VAC -- 10VA -- 1.25 AMPS
  - 16VAC -- 10VA -- 0.62 AMPS
  - 24VAC -- 20VA -- 0.83 AMPS

Price: 5205 $29

5208 – (5) – PLUG IN TYPE (DC)
- 120 volt primary AC, Corded output lead
- Electric Characteristics:
  - 12VDC -- 12VA -- 1.00 AMPS

Price: 5208 $31

5209 – (5) – PLUG IN TYPE (DC)
- 120 volt primary AC, Corded output lead
- Electric Characteristics:
  - 24VDC -- 12VA -- 0.50 AMPS

Price: 5209 $31

SR1 – (6) – SILICON RECTIFIER (SR-1) Not Recommended for 4850
- For converting AC voltage to DC voltage
- For AC power supplies up to 27 volt AC 1 amp.
- Note: DC strikes do not buzz, click only
- Size 1” x 1/2” x 1”
- Electric Characteristics: 12-27VAC -- 1.00 AMPS

Price: SR1 $25

www.trineonline.com
**Pushbuttons**

*PUSH BUTTONS MUST BE PURCHASED IN PACKS OF 10 UNLESS NOTED*

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Diameter</th>
<th>Voltage</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>JRP</td>
<td>Polished Solid Brass w/ black center</td>
<td>1-3/4&quot;</td>
<td>up to 30 volts AC or DC</td>
<td>$7.50</td>
</tr>
<tr>
<td>SRP</td>
<td>Polished Solid Brass w/ black center</td>
<td>2-1/4&quot;</td>
<td>up to 30 volts AC or DC</td>
<td>$8.00</td>
</tr>
<tr>
<td>45A</td>
<td>Silver Rim with Pearl Center</td>
<td>5/8&quot;</td>
<td>up to 30 volts AC or DC</td>
<td>$5.50</td>
</tr>
<tr>
<td>45G</td>
<td>Gold Rim with Pearl Center</td>
<td>5/8&quot;</td>
<td>up to 30 volts AC or DC</td>
<td>$5.50</td>
</tr>
<tr>
<td>45LA</td>
<td>Silver Rim with Lighted Pearl Center</td>
<td>5/8&quot;</td>
<td>up to 16 volts AC or DC</td>
<td>$7.50</td>
</tr>
<tr>
<td>45LG</td>
<td>Gold Rim with Lighted Pearl Center</td>
<td>5/8&quot;</td>
<td>up to 16 volts AC or DC</td>
<td>$7.50</td>
</tr>
<tr>
<td>65P</td>
<td>Weatherproof Polished Solid Brass</td>
<td>2-1/2&quot;</td>
<td>up to 30 volts AC or DC</td>
<td>$55.00</td>
</tr>
<tr>
<td>66B</td>
<td>Black with White Bar Molded Plastic</td>
<td>2-3/4&quot; L X 3/4&quot; W X 5/8&quot; H</td>
<td>up to 30 volts AC or DC</td>
<td>$5.50</td>
</tr>
<tr>
<td>66C</td>
<td>Silver w/ White Bar Molded Plastic</td>
<td>2-3/4&quot; L X 3/4&quot; W X 5/8&quot; H</td>
<td>up to 30 volts AC or DC</td>
<td>$5.50</td>
</tr>
<tr>
<td>66G</td>
<td>Gold w/ White Bar Plated Molded Plastic</td>
<td>2-3/4&quot; L X 3/4&quot; W X 5/8&quot; H</td>
<td>up to 30 volts AC or DC</td>
<td>$5.50</td>
</tr>
<tr>
<td>66W</td>
<td>White w/ White Bar Molded Plastic</td>
<td>2-3/4&quot; L X 3/4&quot; W X 5/8&quot; H</td>
<td>up to 30 volts AC or DC</td>
<td>$5.50</td>
</tr>
<tr>
<td>66LB</td>
<td>Lighted Black w/ White Bar Molded Plastic</td>
<td>2-3/4&quot; L X 3/4&quot; W X 5/8&quot; H</td>
<td>up to 16 volts AC or DC</td>
<td>$8.50</td>
</tr>
<tr>
<td>66LC</td>
<td>Lighted Silver w/ White Bar Plated Molded Plastic</td>
<td>2-3/4&quot; L X 3/4&quot; W X 5/8&quot; H</td>
<td>up to 16 volts AC or DC</td>
<td>$8.50</td>
</tr>
<tr>
<td>66LG</td>
<td>Lighted Gold w/ White Bar Plated Molded Plastic</td>
<td>2-3/4&quot; L X 3/4&quot; W X 5/8&quot; H</td>
<td>up to 16 volts AC or DC</td>
<td>$8.50</td>
</tr>
<tr>
<td>66LW</td>
<td>Lighted White w/ White Bar Molded Plastic</td>
<td>2-3/4&quot; L X 3/4&quot; W X 5/8&quot; H</td>
<td>up to 16 volts AC or DC</td>
<td>$8.50</td>
</tr>
<tr>
<td>71A</td>
<td>Anodized Aluminum Housing w/ Black Bar</td>
<td>2-3/4&quot; L X 1&quot; W X 3/4&quot; H</td>
<td>up to 30 volts AC or DC</td>
<td>$9.00</td>
</tr>
<tr>
<td>71DB</td>
<td>Dark Bronze Powder Coated Housing w/ Black Bar</td>
<td>2-3/4&quot; L X 1&quot; W X 3/4&quot; H</td>
<td>up to 30 volts AC or DC</td>
<td>$9.00</td>
</tr>
<tr>
<td>71G</td>
<td>Anodized Brass Aluminum Housing w/ Black Bar</td>
<td>2-3/4&quot; L X 1&quot; W X 3/4&quot; H</td>
<td>up to 30 volts AC or DC</td>
<td>$9.00</td>
</tr>
<tr>
<td>71LA</td>
<td>Lighted Anodized Aluminum Housing w/ White Bar</td>
<td>2-3/4&quot; L X 1&quot; W X 3/4&quot; H</td>
<td>up to 16 volts AC or DC</td>
<td>$10.00</td>
</tr>
<tr>
<td>71DB</td>
<td>Dark Bronze Powder Coated Housing w/ White Bar</td>
<td>2-3/4&quot; L X 1&quot; W X 3/4&quot; H</td>
<td>up to 16 volts AC or DC</td>
<td>$10.00</td>
</tr>
<tr>
<td>71LG</td>
<td>Lighted Anodized Brass Aluminum Housing w/ White Bar</td>
<td>2-3/4&quot; L X 1&quot; W X 3/4&quot; H</td>
<td>up to 16 volts AC or DC</td>
<td>$10.00</td>
</tr>
<tr>
<td>91P</td>
<td>Multi-Family, Polished Solid Brass Housing</td>
<td>4-3/4&quot; L X 5/8&quot; W X 3/4&quot; H</td>
<td>up to 30 volts AC or DC</td>
<td>$18.00</td>
</tr>
<tr>
<td>94P</td>
<td>3-Button Multi-Family, Polished Solid Brass Housing</td>
<td>7&quot; L X 5/8&quot; W X 3/4&quot; H</td>
<td>up to 30 volts AC or DC</td>
<td>$20.00</td>
</tr>
</tbody>
</table>
**ALTERNATING CURRENT (AC)**
An electric current that reverses direction in a circuit at regular intervals.

**CONTINUOUS DUTY**
A device that is designed to operate continuously without rest.

**CURRENT**
Measured flow of electrons through an electrical conductor. Normally measured in amperes.

**DIRECT CURRENT**
An electric current flowing in one direction.

**DOOR HANDING**

<table>
<thead>
<tr>
<th>Left Hand (LH)</th>
<th>Outside</th>
<th>Right Hand (RH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left Hand Reverse Bevel (LRB)</td>
<td>Outside</td>
<td>Right Hand Reverse Bevel (RRB)</td>
</tr>
</tbody>
</table>

HANDING OF DOOR IS ALWAYS DETERMINED FROM THE OUTSIDE.

**FAIL SAFE**
A device that is normally open and locks when power is applied to the unit. Example: During a loss of power the device remains open. Often listed as “RS”

**FAIL SECURE**
A device that is normally closed or locked until power is applied. Example: During a loss of power the device remains locked.

**FUSE**
A device that is placed in the path of energy that will break the circuit if the current becomes too great. This is accomplished by having a strip or metal that will melt when the current exceeds the required amount.

**INTERMITTENT DUTY**
A device that is designed to operate for a short period of time; generally less that 45 seconds.

**LOCKSET TYPES**
- Mortise Lock
- Cylindrical Lock
- Vertical Rod Latch
- Rim Panic Exit Device
- Mortise Exit Device
- Dead Latch

**NORMALLY OPEN**
The contacts of a switch or relay are normally open or not connected. When activated the contacts close or become connected. Example: A switch is not depressed and the circuit is not complete.

**NORMALLY CLOSED**
The contacts of a switch or relay are normally closed or connected. When activated the contacts open or become disconnected. Example: A switch is not depressed and the circuit is complete.

**OHMS**
The measure of resistance of an electrical device to resist the flow of energy.

**RECTIFIER**
A device that is commonly used to convert AC to DC. Commonly used to silence the audible sound that an electrical strike can make while energized on AC current.

**RELAY**
An electro-magnetic device activated by a variation in conditions in one electric circuit and controlling a larger current or actuating other devices in the same or another electric circuit.

**STANDARD VOLTAGE**
Electric door strike supplied with magnetic coils: 4-6VDC/8-16VAC. Electric door strikes supplied with a solenoid coil: 6-10VDC, 10-16VAC: other voltages available.

**TRANSFORMER**
A device consisting essentially of two or more coils of insulated wire that transfers alternating current by electro-magnetic induction from one winding to another at the same frequency, but usually with changed voltage & current.

**VOLT**
A unit of electric potential equal to the difference of electric potential between two points that have a resistance of one ohm and through which a current of one amperes is flowing.

**VOLTAGE DROP?**
We recommend the following wire sizes:

<table>
<thead>
<tr>
<th>Wire Length</th>
<th>12V</th>
<th>24V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 50 ft.</td>
<td>18 AWG</td>
<td>20 AWG</td>
</tr>
<tr>
<td>51-150 ft.</td>
<td>16 AWG</td>
<td>18 AWG</td>
</tr>
<tr>
<td>151-300 ft.</td>
<td>14 AWG</td>
<td>16 AWG</td>
</tr>
<tr>
<td>301-600 ft.</td>
<td>12 AWG</td>
<td>14 AWG</td>
</tr>
</tbody>
</table>

**WATT**
The power developed in a circuit by a current of one ampere flowing through a potential difference of one volt.
What lockset do you have?

Your choice of electric strikes are:

- **Cylindrical Lock**
  - Surface Mount Strikes
  - 4100DBDL **A**
  - 4200 **B**
  - Fire Rated
  - 294 & Burg Rated
  - Use the 4100RX for Raco® frames (covers the extra 1/4” gap in the frame)
  - Compatible Door Frames
    - Aluminum
    - Hollow Metal
    - Wood
  - **Best strike for allowing deadbolt privacy with an override.**

- **Mortise with a deadbolt**
  - 4850, 4850PoE, 4850LCD **C**
    - 4800F
    - Fire Rated
    - Surface Mount
    - Only strike with Fascia
    - Color Options
    - Match the Fascia to your frame!

- **Mortise Lock**
  - 400CMRP **F**
    - Aluminum
    - Hollow Metal
    - Wood
    - Great for Gates
    - **F* for use on offset mortise locks in outdoor situations see 430/435 on pg 28**

- **Mortise Lock**
  - 4100RX **A**
  - 4200 **B**
  - Fire Rated
  - Surface Mount
  - Only strike with Fascia
  - Color Options
  - Match the Fascia to your frame!

Compatible Door Frames:

- Aluminum
- Hollow Metal
- Wood
- **Use the 4100RX for Raco® frames (covers the extra 1/4” gap in the frame)**
- **Best strike for allowing deadbolt privacy with an override.**

Frame Images:

- **Formed Sheet Metal**
- **Hollow Metal Frame**
- **Aluminum**
- **Wood**
- **Use 2” long mounting screws.**

**EXAMPLE:** Pre-Finished Frames like Timely®, Red®, Raco® Frame Works Type II with Snap-On Trims.
## Strike Selector

### Smallest Electric Strike in the World

**THE VERTICAL ROD LATCH SOLUTION**

- **Dead Latch**
- **Vertical rod latch**
- **Mortise Exit Device**
- **Rim Panic Exit Device**

**NEW**

- **The Door-O-Matic™ Solution!!!**

**275VRP-LC**

**250SOM-LC**

**323478F-LC  323478FX-LC**

**THE SMALLEST ELECTRIC STRIKE IN THE WORLD IS NOW FIRE RATED**

- **NEW**

**234X-375**

**234**

**478X-375**

**478**

**258, 258RD**

**458**

**Compatible Strike Plates**

**Compatible Door Frames**

- Aluminum
- Hollow Metal
- Wood

- Aluminum
- Hollow Metal
- Wood

- Aluminum
- Formed Sheet Metal
- Wood

- Formed Sheet Metal
- Wood

- Hollow Metal
- Wood

- Aluminum
- Formed Sheet Metal
- Wood

- Hollow Metal
- Wood

- Aluminum

- Aluminum

2-3/4" WIDE PLATE. FITS IN TIGHT SPOTS IN THE HEADER
1. ACCEPTANCE, GOVERNING PROVISIONS AND CANCELLATIONS. No order for Trine Access Technology or services shall be binding upon Trine until accepted by a writing of an authorized official of Trine or by shipment or other performance of such order. Any such order shall be subject to these Conditions of Sale, and acceptance shall be expressly conditioned on assent to such Conditions, which assent shall be deemed given unless purchaser shall expressly notify Trine to the contrary prior to the earliest of any shipment or other performance of an order by Trine or within five (5) days after purchaser’s receipt of any acknowledgement or confirmation of such order. Trine expressly reserves the right to reject and withdraw acceptance of any order.

2. QUOTATIONS AND PRICES. Written quotations are conditioned upon acceptance by purchaser within thirty (30) days from the date issued and shall be considered as offers by Trine to sell during such thirty (30) day period on these Conditions of Sale unless sooner terminated by notice. Other Trine publications are maintained as sources of general information and are not quotations or offers to sell.

All clerical errors are subject to correction.

MINIMUM ORDER: $100.00 Net. DROP SHIP FEE: Trine reserves the right to charge a fixed fee of $10.00 for shipping to an address other than customers.

All prices are subject to change without notice. In the event of a net price change, the price of equipment on order but unshipped will be adjusted to the price in effect at the time of shipment. Downward adjustment of prices shall apply only to unshipped portions of outstanding orders.

3. PAYMENT TERMS. Unless otherwise agreed by Trine, terms of payment for Trine products to purchasers of satisfactory credit are either (1) a 1% cash discount for all invoices paid in full if the payment is received by Trine within 10 days after the date of Trine’s invoice or (2) full payment to be received by Trine within 30 days after the date of Trine’s invoice. Applicable terms of payment are stated in quotations or on the discount sheet for the product involved. Cash discount will apply only to the net amount of the invoice after transportation charges and taxes. A late charge of 1% per month or the maximum amount permitted by law will be applied to all past due amounts.

Trine reserves the right at any time to demand full or partial payment before proceeding with a contract of sale. In its judgment, the financial condition of purchaser shall not justify the terms of payment specified. If delivery is delayed or deferred by purchaser beyond the scheduled date, payment shall be due in full when Trine is prepared to ship and the products may be stored at the risk and expense of purchaser. If purchaser defaults when any payment is due, then the whole contract price shall become due and payable on demand, or, at Trine’s option, without prejudice to other lawful remedies, may defer delivery or cancel the contract for sale.

4. TAXES AND OTHER CHARGES. Any manufacturer's tax, retailer’s occupation tax, use tax, sales tax, excise tax (except the Federal excise tax on vehicles), duty, custom, inspection or testing fee, or other fee, tax or charge of any kind whatsoever, imposed by any governmental authority, on or measured by any transaction between Trine and purchaser, shall be paid by purchaser in addition to the prices quoted or invoiced. In the event Trine shall be required to pay any such tax, fee or charges, purchaser shall reimburse Trine therefore, or, in lieu of such payment, purchaser shall provide Trine at the time the order is submitted with an exemption certificate or other document acceptable to the authority imposing the same. Purchase orders must state the existence and amount of any such tax, fee or charge which it shall be Trine’s responsibility to collect from purchaser and pay.

5. DELIVERY. Delivery of products to a carrier at any Trine facility or other shipping point shall constitute delivery to purchaser; and, regardless of freight payment, title and all risk of loss or damage in transit shall pass to purchaser at that time. Trine cannot be held responsible for breakage after having received “in good order” receipts from the transportation company. All claims for loss and damage must be made by purchaser to the carrier. Claims for shortages or other errors must be made in writing to Trine within 15 days after receipt of shipment, and failure to give such notice shall constitute unqualified acceptance and waiver of any such claims by purchaser. Unless otherwise agreed by Trine in quotations, discount schedules, catalogs or other Trine publications, all expenses of freight FOB Trine’s place of shipment shall be borne by purchaser. No allowance will be made in lieu of transportation if purchaser accepts shipment at factory, warehouse, freight station, or otherwise supplies its own transportation. Method and route of shipment will be at the discretion of Trine.

6. SUBSTITUTES. Trine may furnish suitable substitutes for materials unobtainable because of priorities or regulations established by governmental authority or non-availability of materials from suppliers, and assumes no liability for deviation from published dimensions and descriptive information not essential to proper performance of the products.

7. WARRANTIES TO DISTRIBUTORS AND OTHER COMMERCIAL CUSTOMERS. Trine warrants products manufactured by it to be free from defects in materials and workmanship for a period of one year (12 months) from the date of shipment by Trine, except for all Trine (R) process parts which are warranted for a period of five (5) years from the date of shipment by Trine, or such longer period as may be designated by Trine. During said period and any subsequent period any such products shall be proved to be free from defects, such products shall be repaired or replaced at Trine’s option. This warranty shall not apply (a) to products not manufactured by Trine, (b) to products which shall have been repaired or altered by another party so as, in its judgment, to affect the warranty, (c) to equipment which shall have been subjected to negligence, accident or damage by circumstances beyond Trine’s control, or to improper operation, maintenance or storage, or to other than normal use or service. With respect to products not manufactured by Trine, the warranty obligations of Trine shall in all respect conform and be limited to the warranty actually extended to Trine by its supplier. The foregoing warranties do not cover reimbursement of transportation, removal, installation, or other expenses which may be incurred in connection with repair or replacement. Except as may be expressly provided in an authorized writing by Trine, Trine shall not be subject to any other obligations or liabilities whatsoever with respect to products manufactured by Trine or services rendered by Trine.

8. LIMITATION OF LIABILITY. Anything to the contrary herein contained notwithstanding, TRINE ACCESS TECHNOLOGY, ITS CONTRACTORS AND SUPPLIERS OF ANY TIER SHALL NOT BE LIABLE IN CONTRACT, IN TORT (INCLUDING NEGLIGENCE OR STRICT LIABILITY) OR OTHERWISE FOR ANY SPECIAL, INDIRECT, INCIDENTAL CONSEQUENTIAL, PUNITIVE, OR EXEMPLARY DAMAGES WHATSOEVER. The remedies of the purchaser set forth herein are exclusive where so stated and the total cumulative liability of Trine, its contractors and suppliers of any tier, with respect to this contract or anything done in connection therewith, such as the use of any product covered by or furnished under the contract, whether in contract, in tort (including negligence or strict liability) or otherwise, shall not exceed the price of the product or part on which such liability is based. Further, any claim purchaser may have with reference to Trine products or services sold or provided hereunder shall be deemed waived by purchaser unless asserted against Trine in writing within 90 days from the date the purchaser discovered, or should have discovered, the basis for the claim.

9. RETURN OF EQUIPMENT. No products may be returned without first obtaining Trine’s written permission and a returned goods authorization number. Trine shall issue a credit to purchaser for returned goods, subject to the terms of this paragraph, and purchaser will not be entitled to any other form of reimbursement for returns. Products accepted for credit, not involving a Trine error, shall be subjected to a minimum service charge of $25.00, or a charge of 20% of invoice, whichever is greater, in full for all transportation charges incurred by Trine. The MINIMUM RESTOCKING CHARGE IS $25.00. Returned products must be securely packed to reach Trine without any cost incurred by Trine to put the products in first class condition will be charged to purchaser.

10. PATENTS. As to products sold to purchaser by Trine, Trine shall defend any suit or proceeding brought against purchaser for so as based on a claim that said products constitute an infringement of any patent of the United States, if notified promptly in writing and given authority, information and assistance at Trine’s expense for the defense of the same. In the event of a final award of costs and damages, Trine shall pay such award. In the event the use of said products by purchaser is enjoined in such a suit, Trine shall, at its own expense, either (a) procure for purchaser the right to continue using said products, (b) modify said equipment to render them non-infringing, (c) replace said products with non-infringing products, or (d) refund the purchase price (less depreciation) and the transportation and installation costs of said products. Trine will not be responsible for any compromise or settlement made by purchaser with reference to Trine products or services sold or provided hereunder. These Conditions of Sale may not be supplemented or modified by course of dealing, course of performance or any oral communication between the parties. These Conditions shall be governed by and construed according to the laws of the State of Connecticut. Any dispute arising out of or relating to these Conditions of Sale or any matter relating hereto shall be brought in the federal or state courts sitting in or for the State of Connecticut, and the parties waive any objection they may have to the jurisdiction or subject matter of these courts.

11. PATTERNS AND TOOLS. Notice will be given if special patterns or tools are required to complete any order. Charges for such patterns or tools do not convey title thereto or the right to remove them from Trine’s plant. If patterns or tools are not used for a period of two years, Trine will have the right to scrap them without notice.

12. FORCE MAJEURE. Trine shall not be liable in damages or otherwise for delays in shipment or default in delivery for any reason of force majeure or for any cause beyond Trine’s reasonable control including, but not limited to (a) act of nature; (b) government action, war, riots, civil commotions, embargoes or martial laws, (c) Trine’s inability to obtain necessary materials from its usual sources of supply, (d) shortage of labor, raw material, product or transportation facilities or other delays in transit, (e) other contingencies of manufacture or shipment, in the event of any delay in Trine’s performance due in whole or in part to any cause beyond Trine’s reasonable control, Trine shall have such additional time for performance as may be reasonably necessary under the circumstances. Acceptance by purchaser of any goods shall constitute a waiver by purchaser of any claim for damages on account of any delay in delivery of such goods.
### Cross Reference Chart for Premium Electric Strikes

<table>
<thead>
<tr>
<th>TRINE</th>
<th>Folger Adams</th>
<th>H.E.S.</th>
<th>Von Duprin</th>
<th>Adams Rite</th>
<th>RCI</th>
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<tbody>
<tr>
<td>4200</td>
<td>----</td>
<td>5000</td>
<td>4200</td>
<td>7100</td>
<td>4 Series</td>
</tr>
<tr>
<td>4100</td>
<td>----</td>
<td>4500</td>
<td>6400</td>
<td>----</td>
<td>6 Series</td>
</tr>
<tr>
<td></td>
<td>712/712-75/732</td>
<td>1006</td>
<td>6111/6111WF</td>
<td>----</td>
<td>----</td>
</tr>
<tr>
<td>4100DBDL</td>
<td>----</td>
<td>1006CDB #</td>
<td>6400 #</td>
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<tr>
<td>4850</td>
<td>----</td>
<td>9400 ∆, 9600</td>
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<td>4800F</td>
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<td>9500, 9600</td>
<td>6300</td>
<td>----</td>
<td>0162F</td>
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<td>9700</td>
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<tr>
<td>EN400</td>
<td>712/712-75/732</td>
<td>1006J/7501</td>
<td>6211/6211WF</td>
<td>7200</td>
<td>2114/F4114*</td>
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<td>EN430</td>
<td>652SYL</td>
<td>1006KD</td>
<td>6210</td>
<td>----</td>
<td>2134/2334</td>
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<td>EN435</td>
<td>652RFL</td>
<td>1006K</td>
<td>6210</td>
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<td>2124</td>
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<td>EN800**</td>
<td>310-4</td>
<td>7000-783S**</td>
<td>6112</td>
<td>74R1</td>
<td>0161</td>
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<td>EN850**</td>
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<td>7000-789S**</td>
<td>----</td>
<td>74R2</td>
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<td>6215/6226</td>
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<td>310-2 3/4</td>
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<td>6214/6224</td>
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<tr>
<td>323478LC</td>
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<td>323478F-LC</td>
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<tr>
<td>234 ∂</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
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<tr>
<td>258‡ ∂</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
<td>----</td>
</tr>
<tr>
<td>458Ω ∂</td>
<td>----</td>
<td>----</td>
<td>----</td>
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<tr>
<td>478‡ ∂</td>
<td>----</td>
<td>5000/5200+501</td>
<td>----</td>
<td>7400+</td>
<td>L6514+</td>
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<tr>
<td>478RD‡ ∂</td>
<td>----</td>
<td>5000/5200+501'A'</td>
<td>----</td>
<td>7401+</td>
<td>L6504+</td>
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<tr>
<td>3250SOM-LC</td>
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<td>3275VRP-LC</td>
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</tr>
</tbody>
</table>

* DBDL for night latch function only. Competition does not have independent latches to allow for levels of override.
+ Strike has 1 1/16" backset vs. 1" backset for 3000 Series.
Ω Requires 80% less cutting of frame. Fits the frame preparation of the Adams Rite MS Locks without the need to relocate tabs for 6 5/8" or 6 7/8" electric strikes.
‡ Requires 60% less frame face cutting than models listed.
∆ 9400 backplate means it can only handle up to a 1/2" throw - The 4850 can take up to a 1" throw.
Φ Not a shallow (1 3/8") backset – cannot be used in 2" fire rated frames with 1/2" sheetrock ingress
∂ Number is for the Faceplate – use with a 3012, 3024, 30LC, or 30RS Mechanism, see pg 29 for more details.

NOTE: There may be variations in physical size or electrical characteristics between manufacturers. Information in the above chart based on manufacturers' catalogs and reference should be made to manufacturer’s catalog for complete detail comparisons.

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