UNLOCK THE POWER OF TRINE

2020 PRICEBOOK CATALOG

Prices effective
March 1, 2020
Prices Subject to change without notice.
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**NEW**
- 4100DB - Nightlatch only function for mortise locks with deadbolts with 4 faceplates
- 4100CDBM - Complete cylindrical, mortise, and deadbolt solution with 8 faceplates
- Black Powder Coat (BLK) - Now available on many Axion electric strikes.

Discontinued
- 014 Series - replace with 3000 series using the 234 Faceplate (see pages 34 and 40)
- LBM-1 and LBM-2

EFFECTIVE DATE || MARCH 1st, 2020
SPECIALIZED SOLUTIONS
ELECTRIC STRIKE SERIES

SOLUTIONS FOR UNIQUE INSTALLATIONS
ONLY FROM TRINE

3275VRP
THE VERTICAL ROD LATCH SOLUTION
(actual size)

4100DBDL
THE DEADBOLT SPLIT LATCH DUAL MECHANISM SOLUTION
Provides emergency deadbolt override!
AND NIGHT LATCH FUNCTION FOR MORTISE LOCKS WITH DEADBOLTS

3250SOM-LC
STRIKE-O-MATIC™ SOLUTION
THE SMALLEST ELECTRIC STRIKE IN THE WORLD... DOES IT AGAIN!
THE DEADBOLT
SPLIT LATCH SOLUTION

4100DBDL

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. (Leave the deadbolt latch un-powered).

4 Faceplates included

Best installation opportunities

www.trineonline.com
**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**

<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>
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</tr>
<tr>
<td>12AC @ 60Hz</td>
<td>0.210</td>
<td>50</td>
<td>Intm.</td>
<td>Buzz</td>
</tr>
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<td>16AC @ 60Hz</td>
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</tr>
<tr>
<td>24AC @ 60Hz</td>
<td>0.420</td>
<td>50</td>
<td>Intm.</td>
<td>Buzz</td>
</tr>
</tbody>
</table>

**Need Latchbolt Monitoring?**

SEE PAGE 23 for Active LB (Latchbolt monitoring) options and electronic information. Provided for both latches!

**Price:**

**4100DBDL-32D** (Satin Stainless Steel – BHMA630) **$599**

The following finishes are:
- **4100DBDL-US4** (Satin Brass – BHMA606) **$669**
- **4100DBDL-US10** (Satin Bronze – BHMA612)
- **4100DBDL-US10B** (Dark Bronze – BHMA613E)

The following finishes are:
- **4100DBDL-32** (Polished Stainless Steel – BHMA629) **$699**
- **4100DBDL-US3** (Bright Brass – BHMA605)

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

**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.

**How to Order**

**4100DBDL Handing & Failsafe Chart**

- **Both latches Fail Secure (unlocks with power):**
  - 4100DBDL-LH-(finish)
  - 4100DBDL-RH-(finish)
- **Both latches Fail Safe (locks with power):**
  - 4100DBDL-RS-LH-(finish)
  - 4100DBDL-RS-RH-(finish)
- **Top latch (only) is Fail Safe (locks with power):**
  - 4100DBDL-RST-LH-(finish)
  - 4100DBDL-RST-RH-(finish)
- **Bottom latch (only) is Fail Safe (locks with power):**
  - 4100DBDL-RSB-LH-(finish)
  - 4100DBDL-RSB-RH-(finish)

Add "LB" for latchbolt monitoring

- Both latches will have latchbolt monitoring:
  - EX: 4100DBDL-LB-LH-(finish)
  - EX: 4100DBDL-LB-RS-LH-(finish)
THE VERTICAL ROD SOLUTION

3275VRP-LC

The 3275VRP is the smallest electric strike solution for vertical rod latches.

Utilizes the heavy duty 3000F series mechanism.

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

Features:
- All stainless steel construction
- BHMA Grade 1
- LC100 included - 12 & 24 AC/DC
- 1,500 lbs holding force
- 500,000+ life cycles
- Horizontal adjustment
- Metal installation template included
- 1/16” spacer plate provided
- Included Trine’s patented 4-pin anchoring system for stability.

<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

Price: $389

Finishes:
- 3275VRP-LC-ALUM (Aluminum Powder Coat)
- 3275VRP-LC-DKBZ (Dark Bronze Powder Coat)

LC100 included
**THE DOR-O-MATIC™ SOLUTION**

**3250SOM-LC (STRIKE-O-MATIC™)**

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

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

### Features:
- Two faceplates provided in aluminum & dark bronze finish
- All stainless steel mechanism
- BHMA Grade 1
- 1,500 lbs holding force
- 500,000+ life cycles
- Horizontal adjustment
- Patented

### Specifications:

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<tr>
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<td>13</td>
</tr>
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</table>

**Duty:** Intermittent/Continuous

**Price:** $419

(Aluminum & Dark Bronze Powder Coated Faceplates)

www.trineonline.com
THE COMPLETE LINE OF ONE BOX SOLUTIONS

323478F-LC
FOR CYLINDRICAL LOCKSETS
THE SMALLEST HEAVY DUTY FIRE RATED ELECTRIC STRIKE IN THE WORLD

323478LC
FOR CYLINDRICAL LOCKSETS
THE SMALLEST ELECTRIC STRIKE IN THE WORLD

4100
FOR CYLINDRICAL & MORTISE LOCKS
- 4 FACEPLATES INCLUDED
- 3 HOUR FIRE RATED

4850
FOR RIM PANIC EXIT DEVICES
- HANDLES BOTH 1/2" & 3/4" LATCHES
- NOW HANDLES UP TO A 1" LATCH
- AVAILABLE 4850PoE & 4850LCD

4800F
FOR RIM PANIC EXIT DEVICES
- 3 HOUR FIRE RATED
- FIRE RATED AT NO ADDITIONAL COST

4200
FOR CYLINDRICAL & DEADLATCHES
- THE MOST FLEXIBLE STRIKE AVAILABLE!

EN400CMRP
THE GATE SOLUTION FOR CYLINDRICAL, MORTISE, & RIM PANIC EXIT DEVICES
- UL OUTDOOR RATED
- 3 HOUR FIRE RATED
THE ONE BOX SOLUTION
FOR CYLINDRICAL AND MORTISE LOCKS

4100

***NEW***
4100DB & 4100CDBM

SINGLE LATCH - NIGHTLATCH ONLY FUNCTION FROM THE 4100 SERIES

SIMPLE TO USE, NO HANDING, ALL THE SAME GREAT QUALITIES AS THE 4100 ELECTRIC STRIKE
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
- 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.
- USPT Patented #US20110241361
- ANSI/BHMA A156.31-2007

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

Everything included.

Premium trim skirt

www.trineonline.com

Need an Installation Tool
See page 52
The best way to mark & cut the 4100 is the ANSI-HTL.
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

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Price:

<table>
<thead>
<tr>
<th>Item</th>
<th>Finish</th>
<th>Price</th>
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<tbody>
<tr>
<td>4100-32D</td>
<td>Satin Stainless Steel – BHMA630</td>
<td>$515</td>
</tr>
<tr>
<td></td>
<td>The following finishes are:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• 4100-US4 (Satin Brass – BHMA606)</td>
<td>$599</td>
</tr>
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<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>• 4100-US10B (Dark Bronze – BHMA613E)</td>
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</tr>
<tr>
<td></td>
<td>• 4100-BLK (Black Powder Coat)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>The following finishes are:</td>
<td>$655</td>
</tr>
<tr>
<td></td>
<td>• 4100-32 (Polished Stainless Steel – BHMA629)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• 4100-US3 (Bright Brass – BHMA605)</td>
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</table>

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

Price same as above.

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

Aesthetics Matter

Power Matters

Low Current Draw

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

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

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<td>50</td>
<td>Intm.</td>
<td>Buzz</td>
</tr>
</tbody>
</table>

No additional “pacs” required.

Price:

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<th>Item</th>
<th>Finish</th>
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<td>• 4100-US10 (Satin Bronze – BHMA612)</td>
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<td></td>
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<tr>
<td></td>
<td>• 4100-US3 (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

Price same as above.

Faceplates, strike body, mounting screws, latch, and trim skirt all match the finish.
Key Features:
For use on mortise locks with deadbolts. Night latch functionality included.

- Includes 4 faceplates and nightlatch bracket.
- Use with mortise locks with dead bolts up to 1” projection.
- Flexible:
  - 4 faceplates & trim skirt included
  - Same standards & electrical characteristics as the 4100 (pg 10 & 11)

Price:

4100DB-32D (Satin Stainless Steel – BHMA630) $530

The following finishes are:
- 4100DB-US4 (Satin Brass – BHMA606) $599
- 4100DB-US10 (Satin Bronze – BHMA612)
- 4100DB-US10B (Dark Bronze – BHMA613E)
- 4100DB-BLK (Black Powder Coat)

The following finishes are:
- 4100DB-32 (Polished Stainless Steel – BHMA629) $655
- 4100DB-US3 (Bright Brass – BHMA605)

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

Key Features:
All the features of the 4100DB includes 8 faceplates & nightlatch bracket.

The One Box Solution for Cylindrical, Mortise, and Deadbolts.
Always be prepared!

Price:

4100CDBM-32D (Satin Stainless Steel – BHMA630) $590

The following finishes are:
- 4100CDBM-US4 (Satin Brass – BHMA606) $659
- 4100CDBM-US10 (Satin Bronze – BHMA612)
- 4100CDBM-US10B (Dark Bronze – BHMA613E)
- 4100CDBM-BLK (Black Powder Coat)

The following finishes are:
- 4100CDBM-32 (Polished Stainless Steel – BHMA629) $760
- 4100CDBM-US3 (Bright Brass – BHMA605)

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

RS price same as above.
4100 Series

4100LB
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.

The Trine LB AND LBSM make use of a sealed magnetic reed switch that is moisture and environmentally resistant with a life cycle count in excess of 2 million cycles.

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

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.

Add $99 to the list price.

4100LBSM
Latchbolt & Strike Monitoring

Important:
For Latchbolt monitoring on the 4100DB and 4100DBDL
SEE PAGE 23

4100LB

Finish:
4100RX-250-32D (Satin Stainless Steel – BHMA630) $49
US32 (Polished Stainless – BHMA629) $75
US10B (Dark Bronze Powder Coat – BHMA613E) $75

Price: $30

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

Price: $19

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

Additional Faceplates:

<table>
<thead>
<tr>
<th>Finish:</th>
<th>CC9: 9&quot; x 1 - 1/4&quot;</th>
<th>CRD8: 7 - 15/16&quot; x 1 - 7/16&quot;</th>
<th>CRD7: 6 - 7/8&quot; x 1 - 1/4&quot;</th>
<th>CCRD: 4 - 7/8&quot; x 1 - 1/4&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>32D (Satin Stainless - BHMA630)</td>
<td>$40</td>
<td>$30</td>
<td>$30</td>
<td>$25</td>
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<tr>
<td>32 (Polished Stainless - BHMA629) The following finishes are:</td>
<td>$70</td>
<td>$60</td>
<td>$60</td>
<td>$55</td>
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<tr>
<td>US3 (Bright Brass - BHMA605) US4 (Satin Brass - BHMA606) US10 (Satin Bronze - BHMA612) US10B (Dark Bronze - BHMA613E) The following finishes are:</td>
<td>$60</td>
<td>$50</td>
<td>$50</td>
<td>$45</td>
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Prices for faceplates only
THE ONE BOX SOLUTION
FOR CYLINDRICAL AND DEADLATCHES

4200CC-10B-32D
2 FINISHES - 1 BOX

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

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

COMPETITOR 1

1 - 7/16

COMPETITOR 2

1 - 1/2

COMPETITOR 3

1 - 7/16

4200

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

And our competition agrees

Need an Installation Tool
See page 52
The best way to mark & cut the 4200 is the ANSI-ITL.

CHANGE THE FINISH IN THE FIELD WITH OUR CK SYSTEM
FLEXIBLE FACEPLATES

THE BEST SOLUTION FOR ALUMINUM FRAMES

4 FACEPLATES INCLUDED

6 FINISHES AVAILABLE

4200-32D: Stainless Steel Faceplates with Black Fascia – Use with the CK System ->
4200-ALUM: Aluminum Faceplates & Fascia
4200-BLK: Black Faceplates & Fascia
4200-DKBZ: Dark Bronze Faceplates & Fascia
4200-GRN: Green Faceplates & Fascia
4200-WHT: White Faceplates & Fascia

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

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<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>

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

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

Power Matters

Price: $209

- Stainless Steel Faceplates with Black Fascia – Use with the CK System ->
- Aluminum Faceplates & Fascia
- Black Faceplates & Fascia
- Dark Bronze Faceplates & Fascia
- Green Faceplates & Fascia
- White Faceplates & Fascia

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

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

Price: $30

4200 Series

THE ONE BOX SOLUTION FOR CYLINDRICAL AND DEADLATCHES

FLEXIBLE POWER

Add “RS” for Fail-safe model (ex: 4200RS-32D)
The 4200CC-10B-32D

BEST OPTION FOR THE 4200 SERIES - TRY ONE TODAY

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 the features of the regular 4200 - for an even better price. (does not contain the long faceplates)

4200CC-10B-32D (squared corners)  
Price: $189

4200CCRD-10B-32D (rounded corners)

The 4200CC7-10B-32D

Key Features:

- The two most common faceplate sizes for aluminum frames plus two finish options all in one box.
- 6-7/8" faceplate included for changing out an Adams Rite™ 1850 S swingbolt
- Solves door sag problems. Tallest latch in its class.

Price: $209

4200CC7-10B-32D - OR - 4200CC7RD-10B-32D
THE ONE BOX SOLUTION
FOR RIM PANIC EXIT DEVICES

48000F  4850

2 COMPETITOR STRIKES IN 1
FIRE RATED BUT PRICED WITHOUT IT

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 24 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

Electronics 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>12DC</td>
<td>0.566/0.217</td>
<td>Intm./Cont.</td>
<td>Silent</td>
</tr>
<tr>
<td></td>
<td>24DC</td>
<td>0.253/0.099</td>
<td>Intm./Cont.</td>
<td>Silent</td>
</tr>
<tr>
<td></td>
<td>12AC</td>
<td>0.509/0.181</td>
<td>Intm./Cont.</td>
<td>Silent</td>
</tr>
<tr>
<td></td>
<td>16AC</td>
<td>0.405/0.149</td>
<td>Intm./Cont.</td>
<td>Silent</td>
</tr>
<tr>
<td></td>
<td>24AC</td>
<td>0.215/0.087</td>
<td>Intm./Cont.</td>
<td>Silent</td>
</tr>
</tbody>
</table>

Price:
See Page 24 for options.

4800F-32D (Satin Stainless Steel – BHMA630) $515
4800F-DKBZ (Dark Bronze Powder Coated – BHMA613E) $540
4800F-BLK (Black Powder Coated)
4800F-US4 (Satin Brass – BHMA606) $590
4800F-US10 (Satin Bronze – BHMA612)
4800F-32 (Polished Stainless Steel – BHMA629) $610
4800F-US3 (Bright Brass – BHMA605)

Two (2) 1/16” Spacer included
• 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 24 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

### 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>

### Price:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>4850-32D</td>
<td>(Satin Stainless Steel – BHMA630)</td>
<td>$515</td>
</tr>
<tr>
<td>4850-DKBZ</td>
<td>(Dark Bronze Powder Coated – BHMA613E)</td>
<td>$550</td>
</tr>
<tr>
<td>4850-BLK</td>
<td>(Black Powder Coated)</td>
<td>$595</td>
</tr>
<tr>
<td>4850-US4</td>
<td>(Satin Brass – BHMA606)</td>
<td>$595</td>
</tr>
<tr>
<td>4850-US10</td>
<td>(Satin Bronze – BHMA612)</td>
<td>$615</td>
</tr>
<tr>
<td>4850-32</td>
<td>(Polished Stainless Steel – BHMA629)</td>
<td>$615</td>
</tr>
<tr>
<td>4850-US3</td>
<td>(Bright Brass – BHMA605)</td>
<td>$615</td>
</tr>
</tbody>
</table>

Need an Installation Tool

See page 52

The best way to mark & drill the 4850 is the 4850-ITL.

3 Spacers included, 6 Thicknesses created, 1 Box Solution Provided.

www.trineonline.com
The Low Current Draw Solution
For Rim Panic Exit Devices

The 4850PoE & LCD
Low Current Draw means a smaller, or no additional, power supply 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

See Page 24 for options.

Price:
- 4850PoE-32D (Satin Stainless Steel – BHMA630) $515
- 4850PoE-DKBZ (Dark Bronze Powder Coated – BHMA613E) $550
- 4850PoE-BLK (Black Powder Coated) $595
- 4850PoE-US4 (Satin Brass – BHMA606) $595
- 4850PoE-US10 (Satin Bronze – BHMA612) $595
- 4850PoE-32 (Polished Stainless Steel – BHMA629) $615
- 4850PoE-US3 (Bright Brass – BHMA605) $615

***Replace “PoE” with the letters “LCD” when ordering the 24DC model***
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 20.

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

Active 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:

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>4801-32D</td>
<td>(Satin Stainless Steel – BHMA630)</td>
<td>$549</td>
</tr>
<tr>
<td>4801-DKBZ</td>
<td>(Dark Bronze Powder Coated – BHMA613E)</td>
<td>$554</td>
</tr>
<tr>
<td>4801-BLX</td>
<td>(Black Powder Coated)</td>
<td></td>
</tr>
<tr>
<td>4801-US4</td>
<td>(Satin Brass – BHMA606)</td>
<td>$618</td>
</tr>
<tr>
<td>4801-US10</td>
<td>(Satin Bronze – BHMA612)</td>
<td></td>
</tr>
<tr>
<td>4801-32</td>
<td>(Polished Stainless Steel – BHMA629)</td>
<td>$629</td>
</tr>
</tbody>
</table>

Add “LB” to any 4800 series electric strike

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Dual Relay</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>4800FLB-32D</td>
<td>Add to the price of the base unit.</td>
<td>add $150.00</td>
<td></td>
</tr>
<tr>
<td>4800DBLB-32D</td>
<td>Example:</td>
<td>Add “LB” to any 4800 series electric strike</td>
<td>add $99.00</td>
</tr>
</tbody>
</table>

www.trineonline.com
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 CONFIGURATION IS YOUR CHOICE**

- 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.

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: $55

4850-AK: ACCESSORIES KIT
Contains:
- (1) Fail safe plunger with spring & (1) Fail safe cam.
- (6) Anchoring pins.
- (2) 1/4-20 x 1” UH Cap socket mounting screws
- (1) Wire connector
- (2) Wire caps

Price: $30

4800-AK: ACCESSORIES KIT
Contains:
- (1) Fail safe plunger with spring
- (4) Anchoring pins.
- (2) 1/4-20 x 1” UH Cap socket mounting screws
- (1) Wire connector
- (2) Wire caps

Price: $30

4800-SS: TWO 1/16” SPACER PLATES IN 32D
4800-SS-DKBZ: TWO 1/16” SPACER IN DARK BRONZE 613E
Fits all 4800 Series Electric Strikes

Price: $29

4850-SS: 1/4” SPACER PLATE IN 32D
4850-SS-DKBZ: 1/4” SPACER IN DARK BRONZE 613E
Fits all 4800 Series Electric Strikes

Price: $45

Price: $49

Need an Installation Tool
See page 52
The best way to mark & drill the 4801 is the 4850-ITL.
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 CHANGE LATCHES
TO WORK WITH CYLINDRICAL, MORTISE, AND RIM PANICS
The Outdoor Electric Strike Solutions
EN Series

Contains ONLY 8 total parts.
Only 1 moving part in the locking mechanism.
All stainless steel construction.

Superior Strength - 2,000+ lbs - ✔️ tested.
Superior Life - 1,000,000+ cycles.
Superior Application - ✔️ Outdoor rating allows the strike to be used where the competition can not.

Key Features

- Continuous Duty runs very cool (DC only)
- Durability of 1,000,000+ life cycles
- A holding force of 2,000+ lbs – ✔️ 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)*
- Low Current Draw (DC Models*)
  Voltage & Amp draw is the same across all EN Models

Standards

- ✔️ 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

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Wire Colors</th>
</tr>
</thead>
<tbody>
<tr>
<td>12AC - Blue &amp; Orange/White</td>
<td>24AC - Blue &amp; Black/White</td>
</tr>
<tr>
<td>12DC - Orange/White</td>
<td>24DC - Black/White</td>
</tr>
</tbody>
</table>

Need an Installation Tool

See page 52
The best way to mark & cut for the EN400 is the ANSI-ITL
EN400CMRP

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

The OUTDOOR SOLUTION FOR CYLINDRICAL, MORTISE, & RIM PANIC EXIT DEVICES

Price:

400CMRP-32D (Satin Stainless Steel – BHMA630) $545
- 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) $545
- unit comes as a 400RP-24DC-32D-RH; CM (cylindrical/mortise) latch and 12DC coil are in the box.

Kits cannot be ordered with latchbolt (LB) monitoring. Please order from page 31 with a gatebox to match.

EN400-Gatebox

Install the EN400CMRP anywhere on the frame or post.

*Steel gatebox is unfinished*

Aluminum gatebox available (see pg 32)
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 26 for “How to Order”

<table>
<thead>
<tr>
<th>Finish Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>400-32D</td>
<td>Satin Stainless Steel – BHMA630</td>
<td>$430</td>
</tr>
<tr>
<td>400-BLK</td>
<td>Black Powder Coat</td>
<td>$485</td>
</tr>
</tbody>
</table>

The following finishes are:

- 400-US3 (Bright Brass – BHMA605)
- 400-US4 (Satin Brass – BHMA606)
- 400-US10 (Satin Bronze – BHMA612)
- 400-US10B (Dark Bronze Powder Coat – BHMA613E)
- 400-32 (Polished Stainless – BHMA629)

EN400-Gatebox $50
(Steel Gatebox, *unfinished*)
EN400-Gatebox-AL $84
(Aluminum Gatebox)

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 26 for “How to Order”

<table>
<thead>
<tr>
<th>Finish Code</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>400RP-32D</td>
<td>Satin Stainless Steel – BHMA630</td>
<td>$430</td>
</tr>
<tr>
<td>400RP-BLK</td>
<td>Black Powder Coat</td>
<td>$485</td>
</tr>
</tbody>
</table>

The following finishes are:

- 400RP-US3 (Bright Brass – BHMA605)
- 400RP-US4 (Satin Brass – BHMA606)
- 400RP-US10 (Satin Bronze – BHMA612)
- 400RP-US10B (Dark Bronze Powder Coat – BHMA613E)
- 400RP-32 (Polished Stainless – BHMA629)

EN400-Gatebox $50
(Steel Gatebox, *unfinished*)
EN400-Gatebox-AL $84
(Aluminum Gatebox)

(Not UL 10C listed)
The Outdoor Electric Strike Solutions
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

**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.

**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:**

430-32D (Satin Stainless Steel – BHMA630)

**The following finishes are:**

• 430-US3 (Bright Brass – BHMA605)
• 430-US4 (Satin Brass – BHMA606)
• 430-US10 (Satin Bronze – BHMA612)
• 430-US10B (Dark Bronze Powder Coat – BHMA613E)

**$460**

<table>
<thead>
<tr>
<th>Price:</th>
<th>$460</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>430-32D</strong></td>
<td>(Satin Stainless Steel – BHMA630)</td>
</tr>
<tr>
<td>The following finishes are:</td>
<td></td>
</tr>
<tr>
<td>• 430-US3</td>
<td>$510</td>
</tr>
<tr>
<td>(Bright Brass – BHMA605)</td>
<td></td>
</tr>
<tr>
<td>• 430-US4</td>
<td></td>
</tr>
<tr>
<td>(Satin Brass – BHMA606)</td>
<td></td>
</tr>
<tr>
<td>• 430-US10</td>
<td></td>
</tr>
<tr>
<td>(Satin Bronze – BHMA612)</td>
<td></td>
</tr>
<tr>
<td>• 430-US10B</td>
<td></td>
</tr>
<tr>
<td>(Dark Bronze Powder Coat – BHMA613E)</td>
<td></td>
</tr>
<tr>
<td>• 435-32</td>
<td></td>
</tr>
<tr>
<td>(Polished Stainless – BHMA629)</td>
<td></td>
</tr>
</tbody>
</table>

The EN430 is handed, please specify LH or RH

**Price:**

435-32D (Satin Stainless Steel – BHMA630)

**The following finishes are:**

• 435-US3 (Bright Brass – BHMA605)
• 435-US4 (Satin Brass – BHMA606)
• 435-US10 (Satin Bronze – BHMA612)
• 435-US10B (Dark Bronze Powder Coat – BHMA613E)

**$460**

<table>
<thead>
<tr>
<th>Price:</th>
<th>$510</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>435-32D</strong></td>
<td>(Satin Stainless Steel – BHMA630)</td>
</tr>
<tr>
<td>The following finishes are:</td>
<td></td>
</tr>
<tr>
<td>• 435-US3</td>
<td></td>
</tr>
<tr>
<td>(Bright Brass – BHMA605)</td>
<td></td>
</tr>
<tr>
<td>• 435-US4</td>
<td></td>
</tr>
<tr>
<td>(Satin Brass – BHMA606)</td>
<td></td>
</tr>
<tr>
<td>• 435-US10</td>
<td></td>
</tr>
<tr>
<td>(Satin Bronze – BHMA612)</td>
<td></td>
</tr>
<tr>
<td>• 435-US10B</td>
<td></td>
</tr>
<tr>
<td>(Dark Bronze Powder Coat – BHMA613E)</td>
<td></td>
</tr>
<tr>
<td>• 435-32</td>
<td></td>
</tr>
<tr>
<td>(Polished Stainless – BHMA629)</td>
<td></td>
</tr>
</tbody>
</table>

The EN435 is handed, please specify LH or RH

**Price:**

800-32D (Satin Stainless Steel – BHMA630)

**The following finishes are:**

• 800-US3 (Bright Brass – BHMA605)
• 800-US4 (Satin Brass – BHMA606)
• 800-US10 (Satin Bronze – BHMA612)
• 800-US10B (Dark Bronze Powder Coat – BHMA613E)

**$490**

<table>
<thead>
<tr>
<th>Price:</th>
<th>$535</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>800-32D</strong></td>
<td>(Satin Stainless Steel – BHMA630)</td>
</tr>
<tr>
<td>The following finishes are:</td>
<td></td>
</tr>
<tr>
<td>• 800-US3</td>
<td>$535</td>
</tr>
<tr>
<td>(Bright Brass – BHMA605)</td>
<td></td>
</tr>
<tr>
<td>• 800-US4</td>
<td></td>
</tr>
<tr>
<td>(Satin Brass – BHMA606)</td>
<td></td>
</tr>
<tr>
<td>• 800-US10</td>
<td></td>
</tr>
<tr>
<td>(Satin Bronze – BHMA612)</td>
<td></td>
</tr>
<tr>
<td>• 800-US10B</td>
<td></td>
</tr>
<tr>
<td>(Dark Bronze Powder Coat – BHMA613E)</td>
<td></td>
</tr>
<tr>
<td>• 800-32</td>
<td></td>
</tr>
<tr>
<td>(Polished Stainless – BHMA629)</td>
<td></td>
</tr>
</tbody>
</table>

www.trineonline.com
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 amps
CONTACT RESISTANCE STATIC: 150 milliohms (mΩ)
BREAKDOWN VOLTAGE: 200 VDC
OPERATING TEMP: -40° - 130° C
RATE: 2,000,000+ cycles

Price:
Add “LBSM” to model 400, 950, or 960
Example: 400LBSM-12DC-32D

Price: $99 to the price of the base unit.

*Cannot add to 400CMRP/RPCM kits*

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

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

U.S. Patent No. 10,563,428

USE WITH A
GATEBOX FOR
ADDED FLEXIBILITY

EN-LB – 430/435 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

Current consumption is:
0.034 amps at 12VDC & 0.045 amps at 24VDC

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

Examples:
• 430LB-12DC-32D
  add $99 to the price of the base unit.
# 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>$62</td>
</tr>
<tr>
<td>EN-CA-12DC</td>
<td>Coil Assembly (Orange/White Wire Leads)</td>
<td>$49</td>
</tr>
<tr>
<td>EN-CA-24DC</td>
<td>Coil Assembly (Black/White Wire Leads)</td>
<td>$49</td>
</tr>
<tr>
<td>EN-CA-12AC</td>
<td>Coil Assembly (Blue/Orange &amp; White Wire Leads)</td>
<td>$49</td>
</tr>
<tr>
<td>EN-CA-24AC</td>
<td>Coil Assembly (Blue/Black &amp; White Wire Leads)</td>
<td>$49</td>
</tr>
<tr>
<td>EN-SLR-RS</td>
<td>(1) Fail Safe Slider for 430/435 Units</td>
<td>$35</td>
</tr>
<tr>
<td>TRS</td>
<td>(2) Tamper-Resistant Torx® #12-24 Screws</td>
<td>$10</td>
</tr>
<tr>
<td>EN-TS</td>
<td>Trim Skirt (Not for use with 950 &amp; 960)</td>
<td>$29</td>
</tr>
<tr>
<td>EN-LSK</td>
<td>EN Latch Shim Kit for horizontal cavity adjustment.</td>
<td>$18</td>
</tr>
<tr>
<td>ESK-1</td>
<td>EN Service Kit:</td>
<td>$18</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>$19</td>
</tr>
<tr>
<td>BZ-24</td>
<td>Buzzer for 24 DC operation</td>
<td>$19</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 <em>Not Finished</em>).</td>
<td>$50</td>
</tr>
<tr>
<td>EN400-Gatebox-AL</td>
<td>The aluminum gate box solution for use with the EN400 &amp; 400RP.</td>
<td>$84</td>
</tr>
</tbody>
</table>

## Dimensions

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

![Gatebox Dimensions](image)
THE ONE BOX SOLUTION
THE SMALLEST ELECTRIC STRIKE IN THE WORLD

THE STANDARD

HEAVY DUTY FIRE RATED

SMALL STRIKES - THE WAY YOU NEED THEM.

MAKING SMALL STRIKE INSTALLATIONS EVEN EASIER

CHECK OUT THE ANSI-ITL ON PAGE 52
3000 Series

Key Features
- BHMA GRADE 1
- Accepts up to 5/8" latch throw
- 500,000 + life cycles
- 1,500 + lbs. holding force (1,200 lbs. for 334)
- Dynamic Force 70 ft/lb.
- 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
** LC Must be used within 15’ of the mechanism **
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.

Price: $62

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

Price: $19

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.

Price: $27

MODEL   VOLTAGE      CURRENT/AMPS       OHMS DUTY   SOUND  WIRE COLOR
3012   12VDC      .480     25 Intermittent  Silent  Blue
3024   24VDC      .240     100 Intermittent  Silent  White

MODEL   VOLTAGE       PULL IN/HOLD AMPS OHMS DUTY   SOUND  WIRE COLOR
323478LC/ 12VDC       .743/.298  13 Intermittent/Continuous Silent  Red
323478FLC/ 12VAC       .715/.277  13 Intermittent/Continuous Silent  Red
30LC/ 24VDC       .397/.170  13 Intermittent/Continuous Silent  Red
30RS 24VAC       .378/.173  13 Intermittent/Continuous Silent  Red

** Must use LC100. LC Must be installed within 15’ of the mechanism **

3012 & 3024 Mechanism

Included spacers increase cavity depth up to 1/8”

Actual Size >

30LC & 30RS Mechanism

Actual Size >

Designed so a 1” drill bit can be used to hide unit in wood.

The LC100 is included with 30LC & 30RS ONLY and must be placed within 15’ feet of mechanism!

Item | Voltage | Function | Duty  |
--- | --- | --- | --- |
30LC | 11-29AC/DC | Fail Secure | Continuous |
30RS | 11-29AC/DC | Fail Safe | Continuous |

** Must use included LC100 **

Price: $189

Price: $189

Now pick a faceplate - starting on page 38 -or- Make it easy And get a kit - next page

www.trineonline.com
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) 30LC - 11-29 AC & DC Mechanism

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

See page 44 for cut out details.
323478F-LC

- Heavy Duty Stainless Steel Construction
- 1” Total Backset
- 1/8” Horizontal Adjustment
- 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
- BHMA Grade 1 - Heavy Duty

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

![Standards Icon]

VOLTAGE | PULL IN/HOLD AMPS | OHMS | DUTY
---|---|---|---
12VDC | .743/.298 | 13 | Intermittent/Continuous
12VAC | .715/.277 | 13 | Intermittent/Continuous
24VDC | .397/.170 | 13 | Intermittent/Continuous
24VAC | .378/.173 | 13 | Intermittent/Continuous

Price:
- 323478F-LC-32D | $409
  (Satin Stainless Steel – BHMA630)
- 323478F-RS-32D | $409
  (Satin Stainless Steel – BHMA630)
- 323478F-LC-DKBZ | $428
  (Dark Bronze Powder Coat – BHMA613E)
- 323478F-RS-DKBZ | $428
  (Dark Bronze Powder Coat – BHMA613E)

323478FX-LC

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

Refer to pg 34 for electrical characteristics.

Price:
- 323478FX-LC-32D | $428
  (Satin Stainless Steel – BHMA630)
- 323478FX-LC-DKBZ | $445
  (Dark Bronze Powder Coat – BHMA613E)

www.trineonline.com
3478F

- Heavy duty stainless steel construction
- 1” total backset
- 1/8” horizontal adjustment
- Two 1/16” shims for depth adjustment
- Trim skirt (CCFP) included
- 3478F-LC includes LC100

### Specifications:

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Pull In/Hold Amps</th>
<th>OHMS</th>
<th>Duty</th>
</tr>
</thead>
<tbody>
<tr>
<td>3478F-12DC</td>
<td>12VDC</td>
<td>.743/.298</td>
<td>13</td>
<td>Intermittent</td>
</tr>
<tr>
<td>3478F-24DC</td>
<td>24VDC</td>
<td>.715/.277</td>
<td>13</td>
<td>Intermittent</td>
</tr>
<tr>
<td>3478F-LC</td>
<td>12VDC</td>
<td>.397/.170</td>
<td>13</td>
<td>Intermittent</td>
</tr>
<tr>
<td>3478F-RS</td>
<td>24VDC</td>
<td>.378/.173</td>
<td>13</td>
<td>Intermittent</td>
</tr>
</tbody>
</table>

### Standards:

- 3-hour fire rated – UL10C, Fire Tests of Door Assemblies.
- ANSI/BHMA A156.31-2007
- BHMA Grade 1

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

Need an Installation Tool

See page 52

The best way to mark & cut the 3478F is the ANSI-ITL.

### Price:

- **3478F-LC-32D** (Satin Stainless Steel – BHMA630) $359
- **3478F-RS-32D** (Satin Stainless Steel – BHMA630) $378
- **3478F-LC-DKBZ** (Dark Bronze Powder Coat – BHMA613E) $335
- **3478F-RS-DKBZ** (Dark Bronze Powder Coat – BHMA613E) $354

FIRE RATING IS THE EVERDAY STANDARD

Compare the 3478F, the 323478F, the 4800F for rim panics, or even the outdoor rated EN400 against the competition.

We offer a stronger, more durable, fire rated product... for less.
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.

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>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>478-32D</td>
<td>Satin Stainless Steel – BHMA630</td>
<td>$35</td>
</tr>
<tr>
<td>478-32</td>
<td>Polished Stainless Steel – BHMA629</td>
<td>$59</td>
</tr>
<tr>
<td>478-US10B</td>
<td>Dark Bronze Powder Coat – BHMA613E</td>
<td>$51</td>
</tr>
<tr>
<td>478-US3</td>
<td>Bright Brass – BHMA605</td>
<td>$66</td>
</tr>
<tr>
<td>478-US4</td>
<td>Satin Brass – BHMA606</td>
<td>$54</td>
</tr>
</tbody>
</table>

RD (Radius 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 52
The best way to mark & cut for the 478 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

- 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 45 for wood and metal frame preps.

Goodbye unattractive black ramps!

Price:

<table>
<thead>
<tr>
<th>Style</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>478X-375-32D (Satin S Steel – BHMA630)</td>
<td>$50</td>
</tr>
<tr>
<td>478X-375-US10B (Dark Bronze Powder Coat – BHMA613E)</td>
<td>$66</td>
</tr>
<tr>
<td>478X-375-US3 (Bright Brass – BHMA605)</td>
<td>$73</td>
</tr>
<tr>
<td>RD (Radiused Corners)</td>
<td>add $5</td>
</tr>
</tbody>
</table>

30% LESS FRAME CUTTING of Frame Face for ANSI 4 7/8” pre-prep frames. The strike opening on this faceplate is offset by 3/16” from the center to accommodate door sag for the 478 (just change faceplates, and use the same mechanism).

www.trineonline.com
**234 Faceplate**

- **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) $26
- 234-US10B (Dark Bronze Powder Coat – BHMA613E) $29
- 234-US3 (Bright Brass – BHMA605) $39
- 234-US4 (Satin Brass – BHMA606) $29

- 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) $31
- 234X-375-US10B (Dark Bronze Powder Coat – BHMA613E) $34
- 234X-375-US3 (Bright Brass – BHMA605) $41

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

**334 Faceplate**

- **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) $31
- 334-US3 (Bright Brass – BHMA605) $36
- 334-US4 (Satin Brass – BHMA606) $33

- Match with any 3000 Mechanism: 3012, 3024, 30LC, 30RS
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:
- 258-26D (Satin Chrome – BHMA651) $31
- 258-US10B (Dark Bronze Powder Coat – BHMA613E) $34

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:
- 258RD-26D (Satin Chrome – BHMA651) $31
- 258RD-US10B (Dark Bronze Powder Coat – BHMA613E) $34

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:
- 458-ALUM (Aluminum Powder Coat) $58
- 458-DKBZ (Dark Bronze Powder Coat – BHMA613E) $58

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

**Must Specify Handing**
RH or LH

Note: Faceplates are powder coated.
LESS CUTTING IS BETTER
THE 3000 SERIES

ANSI FACEPLATE SOLUTIONS

234

2 3/4” Strike Plate

234 Faceplate

Typical 4 7/8” Electric Strike

478

4 7/8” Strike Plate

478 Faceplate

No need to remove Dust Box.

Typical 4 7/8” Electric Strike

Must remove Dust Box.

RED ON DIAGRAMS = AMOUNT OF CUTTING

ALUMINUM FACEPLATE SOLUTIONS

258

2 5/8” Strike Plate

258 Faceplate

Can use existing tab holes.

Typical 4 7/8” Electric Strike

New tabs are required.

458

4 5/8” Strike Plate

458 Faceplate

Can use existing tab holes.

Typical 6 7/8” Electric Strike

New tabs are required.

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.
FRAME PREPS
THE 3000 SERIES

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.
258 ALUMINUM FRAME

258RD ALUMINUM DOORS

Radius of faceplate matches the radius surface of the door.

458 ALUMINUM FRAME

334 WOOD FRAME

NOTE: USE 2 INCH LONG (OR LONGER) WOOD SCREWS FOR MOUNTING.
NOTE: USE 2 INCH LONG (OR LONGER) WOOD SCREWS FOR MOUNTING.
Light Commercial Electric Strikes

The original Trine line
Light Commercial Electric Strikes

**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) $53
- **001C** (Satin Chrome – BHMA651) $60
- **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** (Aluminum Powder Coated) $86
- **002DB** (Dark Bronze Powder Coated) $89
- **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) $96
- **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) $98
- **004C** (Satin Chrome – BHMA651) $105
- **004DB** (Dark Bronze Powder Coated) $103
- **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”

*Need to upgrade to something stronger?*
- Try the HD005 (below)

---

**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”

---

**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”

---

**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”

---

**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:**
- **005** (Brass Powder Coated) – $65
- **005C** (Satin Chrome – BHMA651) – $71
- **RS** (Fail Safe) – For DC Models only. **add** $20

---

**Price:**
- **HD005** (Brass Powder Coated) – $86
- **HD005C** (Satin Chrome – BHMA651) – $91
- **RS** (Fail Safe) – For DC Models only. **add** $20

---

**Price:**
- **S005** (Brass Powder Coated) – $76
- **S005C** (Satin Chrome – BHMA651) – $84
- **RS** (Fail Safe) – For DC Models only. **add** $20

---

**Price:**
- **006** (Brass Powder Coated) – $107
- **RS** (Fail Safe) – For DC Models only. **add** $20

---

**Price:**
- **007** (Brass Powder Coated) – $101
- **007C** (Satin Chrome – BHMA651) – $106
- **RS** (Fail Safe) – For DC Models only. **add** $20
## Light Commercial Electric Strikes

### 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>6-14VAC0.44</td>
<td>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>
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<td>Intermittent</td>
</tr>
<tr>
<td>12VDC</td>
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<td>Continuous</td>
</tr>
<tr>
<td>24VDC</td>
<td>0.12</td>
<td>120.0</td>
<td>Silent</td>
<td>Continuous</td>
</tr>
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</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”

**NOT AVAILABLE IN FAIL-SAFE FUNCTION. SEE 001 ON PAGE 47**

### 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”

### 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”

### 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”

### 2012
For use in new or replacement, aluminum or hollow, metal jamb 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”

---

### Pricing

<table>
<thead>
<tr>
<th>Model</th>
<th>Color</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>2001</td>
<td>Brass Powder Coated</td>
<td>$96</td>
</tr>
<tr>
<td>2001C</td>
<td>Satin Chrome – BHMA651</td>
<td>$102</td>
</tr>
<tr>
<td>2002</td>
<td>Aluminum Powder Coated</td>
<td>$111</td>
</tr>
<tr>
<td>2002DB</td>
<td>Dark Bronze Powder Coated</td>
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<td>RS</td>
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<tr>
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<td>Satin Chrome – BHMA651</td>
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<td>2009C</td>
<td>Satin Chrome – BHMA651</td>
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<tr>
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<tr>
<td>RS</td>
<td>Fail Safe</td>
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</tr>
<tr>
<td>2012</td>
<td>Brass Powder Coated</td>
<td>$129</td>
</tr>
<tr>
<td>2012C</td>
<td>Satin Chrome – BHMA651</td>
<td>$131</td>
</tr>
<tr>
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<td>$129</td>
</tr>
<tr>
<td>RS</td>
<td>Fail Safe</td>
<td>add $20</td>
</tr>
</tbody>
</table>
The Adjustable

2000 Series

2678
For use in new or replacement aluminum, or hollow, metal jamb installations. Auxiliary lever ramps for use 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"

The ANSI 01 Series

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"

The 1000 Series

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"

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”
ACCESSORIES

4850-ITL
INSTALL 4800 SERIES STRIKES FASTER

ANSI-ITL
INSTALL 2-3/4” & 4-7/8” ELECTRIC STRIKES FASTER.

018-4/017TDC-4
UTILIZES ROLLING CODE WITH OVER 4+ BILLION CODES AND IN A VARIETY OF COLORS.
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
  - 4100
  - 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 $69
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  $92

232 – BATTERY OPERATED

- Field selectable 2 note or 1 note
- Requires 3 “C” batteries (not included)
- Up to 100ft 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  $33

233 – PLUG IN

- Field selectable 8 note or 2 note
- Plugs into 120VAC outlet
- Automatically paired out of box. Maximum of 5 pushbuttons may be linked to 1 wireless chime at a time
- Up to 150 ft. operating range (increased range)
- A-23 battery included
- UL recognized, FCC-IC approved

Price:
233  $42

233 unit was updated as of 10/31/19
See website for more information and instruction sheet.

www.trineonline.com
New Upgraded Wireless Controller & Transmitter

017TDC-4 – WIRELESS CONTROLLER
UTILIZES 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+ billion codes.
• A-23 Battery Included
• FCC-IC approved

Price:
017TDC-4 $90

018-4-WHT 018-4-RED 018-4-BLK 018-4-BLU

Price:
018-4-WHT $38

PLEASE SPECIFY COLOR WHEN ORDERING
www.trineonline.com
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 $29

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 $59

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 $13

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 $22
Door Chimes, Bells, Buzzers, & Chime Kits

201 – CHIME KIT
• (1) White chime base, (2) Unlighted 66W white push buttons, and (1) 16VAC-10VA Hard wire transformer
• Mounting hardware included, excluding wire
• Offers 2 note front door/1 note rear door ability

Price:
201 $30

203 – CHIME KIT
• (1) White chime base, (1) Lighted 45LG push button, and (1) 16VAC-10VA Hard wire transformer
• Mounting hardware included, excluding wire
• Offers 2 note front door/1 note rear door ability

Price:
203 $30

240 – CHIME
• Chime base with solid white cover
• Offers 2 note front door/1 note rear door ability
• Operating voltage 12-16VAC – Mounting base hardware provided
• 80 db sound at 3 feet – Outer dimension 7-1/4" x 4-3/4" x 1-7/8"

Price:
240 $30

296 – CHIME
• Chime base with solid white cover
• Offers 2 note front door/1 note rear door ability
• Operating voltage 12-16VAC – Mounting base hardware included
• 75db sound at 3 feet – Outer dimension 1-1/8" x 4" x 2"

Price:
296 $22

270 – BUZZER
• Enclosed buzzer – 92db sound at 3 feet
• Operating range 3-6VDC, 8-16 VAC, 1 Amp draw
• Aluminum powder coat finish
• Includes mounting hardware

Price:
270 $17

272 – BELL
• 100 db sound at 3 feet – 2-1/2" open bell
• Operating range 3-6VDC, 8-16 VAC, 1 Amp draw
• Aluminum powder coat finish
• Includes mounting hardware

Price:
272 $19

274 – BELL
• 100 db sound at 3 feet – 4" open bell
• Operating range 3-6VDC, 8-16 VAC, 1 Amp draw
• Aluminum powder coat finish
• Includes mounting hardware

Price:
274 $21

275 – ENCLOSED BELL
• 88 db at 3 feet
• Operating range: 3-8VDC, 1.4 Amp draw
• 6-8VAC, 0.7 Amp draw
• Grey finish – Includes mounting hardware

Price:
275 $24

276 – ENCLOSED BELL & BUZZER
• 88 db at 3 feet
• Operating range: 3-8VDC, 1.4 Amp draw
• 6-8VAC, 0.7 Amp draw
• Grey finish – Includes mounting hardware

Price:
276 $28

www.trineonline.com
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.

<table>
<thead>
<tr>
<th>Style</th>
<th>Quantity</th>
<th>Type</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>522</td>
<td>(1)</td>
<td>LOCKNUT TYPE (AC)</td>
<td>$19</td>
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<tr>
<td>525</td>
<td>(2)</td>
<td>CLAMP ON TYPE/TRI VOLT (AC)</td>
<td>$27</td>
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<tr>
<td>598</td>
<td>(2)</td>
<td>CLAMP ON TYPE/TRI VOLT (AC)</td>
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<tr>
<td>599</td>
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<td>5209</td>
<td>(5)</td>
<td>PLUG IN TYPE (DC)</td>
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<tr>
<td>SR1</td>
<td>(6)</td>
<td>SILICON RECTIFIER (SR-1)</td>
<td>$28</td>
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</tbody>
</table>

For converting AC voltage to DC voltage. Not Recommended for 4850.
**Accessories**

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

<table>
<thead>
<tr>
<th>Pushbutton Model</th>
<th>Description</th>
<th>Dimensions</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>JRP, SRP</td>
<td>Polished Solid Brass w/ black center</td>
<td>1-3/4” Body Diameter – for use up to 30 volts AC or DC</td>
<td>$9.00</td>
</tr>
<tr>
<td>JRP</td>
<td>SRP</td>
<td>2-1/4” Body Diameter – for use up to 30 volts AC or DC</td>
<td>$10.00</td>
</tr>
<tr>
<td>45A, 45G, 45LA, 45LG</td>
<td>Silver Rim with Pearl Center</td>
<td>5/8” Body Diameter – for use up to 30 volts AC or DC</td>
<td>$6.50</td>
</tr>
<tr>
<td>45A</td>
<td>Gold Rim with Pearl Center</td>
<td>5/8” Body Diameter – for use up to 30 volts AC or DC</td>
<td>$6.50</td>
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<tr>
<td>45LA</td>
<td>Silver Rim with Lighted Pearl Center</td>
<td>5/8” Body Diameter – for use up to 16 volts AC or DC</td>
<td>$8.50</td>
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<tr>
<td>45LG</td>
<td>Gold Rim with Lighted Pearl Center</td>
<td>5/8” Body Diameter – for use up to 16 volts AC or DC</td>
<td>$8.50</td>
</tr>
<tr>
<td>66B</td>
<td>Black with White Bar Molded Plastic</td>
<td>2-3/4”L X 3/4”W X 5/8”H – for use up to 30 volts AC or DC</td>
<td>$6.50</td>
</tr>
<tr>
<td>66C</td>
<td>Silver w/ White Bar Molded Plastic</td>
<td>2-3/4”L X 3/4”W X 5/8”H – for use up to 30 volts AC or DC</td>
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<tr>
<td>66G</td>
<td>Gold w/ White Bar Plated Molded Plastic</td>
<td>2-3/4”L X 3/4”W X 5/8”H – for use up to 30 volts AC or DC</td>
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<td>66W</td>
<td>White with White Bar Molded Plastic</td>
<td>2-3/4”L X 3/4”W X 5/8”H – for use up to 30 volts AC or DC</td>
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<td>66LB</td>
<td>Lighted Black w/ White Bar Molded Plastic</td>
<td>2-3/4”L X 3/4”W X 5/8”H – for use up to 16 volts AC or DC</td>
<td>$9.00</td>
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<td>66LC</td>
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<td>2-3/4”L X 3/4”W X 5/8”H – for use up to 16 volts AC or DC</td>
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<tr>
<td>66LG</td>
<td>Lighted Gold w/ White Bar Plated Molded Plastic</td>
<td>2-3/4”L X 3/4”W X 5/8”H – for use up to 16 volts AC or DC</td>
<td>$9.00</td>
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<tr>
<td>66LW</td>
<td>Lighted White w/ White Bar Molded Plastic</td>
<td>2-3/4”L X 3/4”W X 5/8”H – for use up to 16 volts AC or DC</td>
<td>$9.00</td>
</tr>
<tr>
<td>71A</td>
<td>Anodized Aluminum Housing w/ Black Bar</td>
<td>2-3/4”L X 1”W X 3/4”H – for use up to 30 volts AC or DC</td>
<td>$10.00</td>
</tr>
<tr>
<td>71DB</td>
<td>Dark Bronze Powder Coated Housing w/ Black Bar</td>
<td>2-3/4”L X 1”W X 3/4”H – for use up to 30 volts AC or DC</td>
<td>$10.00</td>
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<tr>
<td>71G</td>
<td>Anodized Brass Aluminum Housing w/ Black Bar</td>
<td>2-3/4”L X 1”W X 3/4”H – for use up to 30 volts AC or DC</td>
<td>$10.00</td>
</tr>
<tr>
<td>71LA</td>
<td>Lighted Anodized Aluminum Housing w/ White Bar</td>
<td>2-3/4”L X 1”W X 3/4”H – for use up to 16 volts AC or DC</td>
<td>$11.00</td>
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<tr>
<td>71LDB</td>
<td>Dark Bronze Powder Coated Housing w/ White Bar</td>
<td>2-3/4”L X 1”W X 3/4”H – for use up to 16 volts AC or DC</td>
<td>$11.00</td>
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<tr>
<td>71LG</td>
<td>Lighted Anodized Brass Aluminum Housing</td>
<td>2-3/4”L X 1”W X 3/4”H – for use up to 16 volts AC or DC</td>
<td>$11.00</td>
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<tr>
<td>91P</td>
<td>Multi-Family, Polished Solid Brass Housing</td>
<td>4-3/4”L X 5/8”W X 3/4”H – for use up to 30 volts AC or DC</td>
<td>$20.00</td>
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<tr>
<td>94P</td>
<td>3-Button Multi-Family, Polished Solid Brass Housing</td>
<td>7” L X 5/8” W X 3/4” H – for use up to 30 volts AC or DC</td>
<td>$22.00</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

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

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?**

<table>
<thead>
<tr>
<th>Cylindrical Lock</th>
<th>Mortise with a deadbolt</th>
<th>Mortise Lock</th>
<th>Mortise Lock</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>B</td>
<td>A</td>
<td>A</td>
</tr>
</tbody>
</table>

**Your choice of electric strikes are:**

- Aluminum
- Hollow Metal
- Wood

**Compatible Door Frames**

- Aluminum
- Hollow Metal
- Wood

**Use the 4100RX for Raco® frames (covers the extra 1/4” gap in the frame)**

- Aluminum
- Hollow Metal
- Wood

**4100DBDL & 4100CDBM**

- 4 FACEPLATES
- 8 FACEPLATES

**NIGHT LATCH ONLY FUNCTIONALITY - FOR MORTISE LOCKS WITH DEADBOLTS**

**Strike Selector**

- SPECIALIZED SOLUTIONS
- ELECTRIC STRIKE SERIES

**Surface Mount Strikes**

- Fire Rated
- 294 & Burg. Rated

- 4100
- 4100DBDL
- 4200
- 4200CC-10B-32D
- 4200CC7-10B-32D
- 4850, 4850PoE, 4850LCD
- 4800F
- 400CMRP

**The Outdoor Solution for Electric Strikes**

- 3 Hour Fire, 1034, & 294 rated

**For use with the Yale Squarebolt® or Corbin Russwin Securebolt™**

- *NOTE*

**Use the 4801**

**Great for Gates**

- F* for use on offset mortise locks in outdoor situations see 430/435 on pg 29

- Aluminum
- Hollow Metal
- Wood

www.trineonline.com
Smallest Electric Strike in the World

**EXAMPLE:**
PRE-FINISHED FRAMES LIKE TIMELY®, REDI®, RACO®, FRAMEWORKS TYPE R® WITH SNAP-ON TRIMS.

Compatible Door Frames

- Aluminum
- Hollow Metal
- Wood

Formed Sheet Metal
Hollow Metal Frame
Aluminum
Wood

Use 2' long mounting screws.

Compatible Strike Plates

Website: www.trineonline.com
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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 $100.00 to ship 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 the 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 if, 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 Trine, at its option, without prejudice to other lawful remedies, may delay 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 tax, fee or charge of any nature 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 a waiver of any claims by purchaser. Unless otherwise agreed by Trine in quotations, discounts, schedules 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 state at factory, warehouse, freight station, or other point of shipment. Method and route of shipment will be at the discretion of Trine unless purchaser shall specify otherwise, and any additional expense of the method or route of shipment specified by purchaser shall be borne by purchaser. Trine reserves the right to make delivery in installments, unless otherwise expressly stipulated in the contract for sale; and all such installments when separately invoiced shall be paid for when due per invoice, without regard to subsequent deliveries. Delay in delivery of any installment shall not relieve purchaser of its obligations to accept remaining deliveries.

6. SUBSTITUTES. Trine may furnish suitable substitutes for materials unavailable 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 (1) year from date of shipment by Trine, except for all Axion (R) labeled products which are covered for two (2) years from date of shipment by Trine. If within such period any such products shall be proved to Trine's satisfaction to be defective, 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 other than Trine so as, in its judgment, to affect the same adversely, or (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 for 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.

THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION TITLE, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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 shall apply only to unshipped portions of outstanding orders.

9. RETURN OF EQUIPMENT. No products may be returned without first obtaining Trine's written permission and a returned goods authorization number. Trine 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, plus all transportation charges incurred by Trine. THE MINIMUM RESTOCKING CHARGE IS $25.00. Returned products must be securely packed to reach Trine without damage, any cost incurred by Trine to put the products in first class condition shall be charged to purchaser.

10. PAINTS. As to products sold to purchaser by Trine. Trine shall defend any suit or proceeding brought against purchaser so far 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 without its written consent. The foregoing states the entire liability of Trine for patent infringement, and in no event shall Trine be liable if the infringement charge is based on the use of Trine products for a purpose other than that for which sold by Trine, any alteration to the Trine products or the use of the Trine products with any other products not manufactured by Trine. As to any products furnished by Trine to purchaser and manufactured in accordance with designs provided by purchaser, purchaser shall defend, indemnify and hold harmless Trine against any award made against Trine for patent, trademark, or copyright infringement.

11. PATTERNS AND TOOLS. Notice will be given if special patterns or tools are required to complete any order. Changes 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 shall 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) an act of nature; (b) government action, war, riots, civil commotion, embargoes or martial laws; (c) Trine's inability to obtain necessary materials from its usual sources of supply, (d) shortage of labor, raw material, production 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 of purchaser by any goods shall constitute a waiver by purchaser of any claim for damages on account of any delay in delivery of such goods.
<table>
<thead>
<tr>
<th>TRINE</th>
<th>Adams Rite</th>
<th>Folger Adam</th>
<th>H.E.S.</th>
<th>RCI</th>
<th>Von Duprin</th>
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<tr>
<td>4100</td>
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<td>4500, 1500</td>
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<td>1006CLB ⦁</td>
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<td>258‡ ⦁</td>
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<td>478‡ ⦁</td>
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<td>5000/5200+501</td>
<td>L6514+</td>
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<td>3275VRP-LC</td>
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</tbody>
</table>

* Strike has 1-1/16" backset vs. 1" backset for 3000 Series.
† Requires 80% less cutting of frame. Fills 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 other than models listed.
Δ 9400 backplate means it can only handle up to a 1/2" throw – The 4850 can take up to a 1" throw.
* UL 90 Minute Fire Rated
** All Stainless Steel construction, not fire rated.
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 34 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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www.trineonline.com

Effective Date March 1, 2020