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- 4800F-10B, 4801-10B, & 4850-10B (BHMA 613 finishes) - replaced by 4800F-DKBZ, 4801-DKBZ, & 4850-DKBZ (BHMA 613e - Dark bronze powder coat)
- 2002WR Electric Strike
- 340 Door Switch

**EFFECTIVE DATE || MARCH 1st, 2019**
SPECIALIZED SOLUTIONS
ELECTRIC STRIKE SERIES

SOLUTIONS FOR UNIQUE INSTALLATIONS
ONLY FROM TRINE

3275VRP
THE VERTICAL ROD LATCH SOLUTION

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

3250SOM-LC
STRIKE-O-MATIC™
THE DOR-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.

4 Faceplates included

Designed for deadbolt privacy, allowing for an emergency override.

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

PATENTED

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>
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<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>
<td>12AC @ 60hz</td>
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<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>

Latchbolt monitoring - see pg 12

LB monitoring is ONLY available on 1 latch for the 4100DBDL - please specify when ordering.

Price:

| 4100DBDL-32D (Satin Stainless Steel – BHMA630) | $574 |
| 4100DBDL-US4 (Satin Brass – BHMA606) | $659 |
| 4100DBDL-US10 (Satin Bronze – BHMA612) | $659 |
| 4100DBDL-US10B (Dark Bronze – BHMA613) | $699 |
| 4100DBDL-32 (Polished Stainless Steel – BHMA629) | |
| 4100DBDL-US3 (Bright Brass – BHMA605) | |

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

HOW TO ORDER

4100DBDL Handing and 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) |
THE VERTICAL ROD SOLUTION

3275VRP-LC

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

Utilizes the reliable 3000 series mechanism.

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

<table>
<thead>
<tr>
<th>VOLTAGE</th>
<th>PULL IN/HOLD AMPS</th>
<th>OHMS</th>
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<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>

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.

Price: $379

Available NOW!

SPECIALIZED SOLUTIONS
ELECTRIC STRIKE SERIES

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

www.trineonline.com
3250SOM-LC (STRIKE-O-MATIC™)
The only electric strike for use with Dor-O-Matic®

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

<table>
<thead>
<tr>
<th>VOLTAGE</th>
<th>PULL IN/HOLD AMPS</th>
<th>OHMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>12VDC</td>
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<td>24VDC</td>
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<td>13</td>
</tr>
<tr>
<td>24VAC</td>
<td>.378/.173</td>
<td>13</td>
</tr>
</tbody>
</table>

DUTY: Intermittent/Continuous

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

Price: $399

Available NOW!
THE COMPLETE LINE OF ONE BOX SOLUTIONS

FOR CYLINDRICAL & MORTISE LOCKS

4100
4 FACEPLATES INCLUDED
3 HOUR FIRE RATED

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

FOR RIM PANIC EXIT DEVICES

4800F
3 HOUR FIRE RATED
FIRE RATED AT NO ADDITIONAL COST

4850
FOR RIM PANIC EXIT DEVICES
HANDLES BOTH 1/2" & 3/4" LATCHES
NOW WITH 3 SPACER PLATES
AVAILABLE 4850PoE & 4850LCD

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

323478LC
FOR CYLINDRICAL LOCKSETS
THE SMALLEST ELECTRIC STRIKE IN THE WORLD
THE ONE BOX SOLUTION
FOR CYLINDRICAL AND MORTISE LOCKS

4100

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

4100LBSM
LATCHBOLT AND
STRIKE MONITORING
MICROSWITCHES ARE A THING
OF THE PAST!
SUPERIOR
PATENTED DESIGN
Key Features:

Use with cylindrical locksets, mortise locks without dead bolts and mortise exit devices.

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

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

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

- Durable: Exceeds 1,000,000 Life Cycles

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

Standards:

- 3-hour fire rated – UL10C, Fire Tests of Door Assemblies.
- Listed for UL1034 Burglary Resistant Electric Locking Mechanism, Grade 1
- 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 trimskirt

www.trineonline.com
Aesthetics Matter

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

Cutting Matters

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

Electric Characteristics

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

No additional “pacs” required.

Power Matters

Low Current Draw

.240 Amp at 12DC makes it very PoE Friendly

12 & 24DC :: 12 through 24AC

All the low voltage flexibility you need.

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

Price:

4100-32D  (Satin Stainless Steel – BHMA630) $499

The following finishes are:

• 4100-US4 (Satin Brass – BHMA606) $589
• 4100-US10 (Satin Bronze – BHMA612)
• 4100-US10B (Dark Bronze – BHMA613)

The following finishes are:

• 4100-32 (Polished Stainless Steel – BHMA629) $648
• 4100-US3 (Bright Brass – BHMA605)

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

Faceplates, strike body, mounting screws, latch, and trim skirt all match the finish.
4100 Accessories

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

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

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.

<table>
<thead>
<tr>
<th>4100LB/LBSM CHARACTERISTICS:</th>
<th>CONTACT RESISTANCE STATIC: 150 MILLIOHM</th>
<th>BREAKDOWN VOLTAGE: 200 VDC</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONTACT FORM: C</td>
<td>OPERATING TEMP: -40° - 130° C</td>
<td>RATE: 2,000,000+ CYCLES</td>
</tr>
<tr>
<td>CONTACT RATING: 10W</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SWITCHING VOLTAGE: 30V MAX AC/DC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SWITCHING CURRENT: 0.5 A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4100LB/LBSM

Price: $30

Latchbolt & Strike Monitoring

4100DBDL-LB

**LB monitoring on one latch only**

see page 4-5 for more info

$70 $60 $50 $45

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

Price: $18

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

Price: $49

Additional Faceplates:

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

Finish: 32D (Satin Stainless - BHMA630)

The following finishes are:
32 (Polished Stainless - BHMA629)
US3 (Bright Brass - BHMA605)

Price: $70 $60 $50 $55

The following finishes are:
US4 (Satin Brass - BHMA606)
US10 (Satin Bronze - BHMA612)
US10B (Dark Bronze - BHMA613)

$70 $60 $50 $45

www.trineonline.com

Prices for faceplates only

4100 Series

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

4200

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

4200CC-10B-32D
2 FINISHES - 1 BOX
The 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
FLEXIBLE FINISH

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 51

The best way to mark and cut for the 4200... use 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)

Price: $199

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

Price: $30

CK System
CK-ALUM: Aluminum Fascia/Trimskirt
CK-BLK: Black Fascia/Trimskirt
CK-DKBZ: Dark Bronze Fascia/Trimskirt
CK-GRN: Green Fascia/Trimskirt
CK-WHT: White Fascia/Trimskirt

Price: $25

CK-PK: This pack includes 4 Fascia & Trimskirt finish (except black)

Price: $80

FLEXIBLE POWER

Power Matters
Low Current Draw
.240 Amp at 12DC makes it very PoE Friendly
12 & 24DC :: 12 through 24AC All the low voltage flexibility you need.

Electric Characteristics

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Current/Amps</th>
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<th>Duty</th>
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<td>12DC</td>
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<td>50</td>
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<td>Silent</td>
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<td>24DC</td>
<td>0.114</td>
<td>210</td>
<td>Intm./Cont.</td>
<td>Silent</td>
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<td>Intm.</td>
<td>Buzz</td>
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<tr>
<td>24AC @ 60hz</td>
<td>0.420</td>
<td>50</td>
<td>Intm.</td>
<td>Buzz</td>
</tr>
</tbody>
</table>
**The 4200CC-10B-32D**

Key Features:

- Two finish options in one box means you’re ready for most frames.
- Tall Cavity solves door sag problems. Tallest latch in its class.

ALL ITEMS SHOWN ARE INCLUDED

- Price: $179

**The 4200CC7-10B-32D**

Key Features:

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

ALL ITEMS SHOWN ARE INCLUDED

- Price: $199

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

4800F

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

4850

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

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

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

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

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

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

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

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

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

Price:
4800F-32D (Satin Stainless Steel – BHMA630) $499
4800F-DKBZ (Dark Bronze Powder Coated – BHMA613E) $525
4800F-US4 (Satin Brass – BHMA606) $575
4800F-US10 (Satin Bronze – BHMA612) $575
4800F-32 (Polished Stainless Steel – BHMA629) $595
4800F-US3 (Bright Brass – BHMA605) $595

See Page 23 for options.
The 4850

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

For use with surface mounted rim exit devices with up to a 1” throw.

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

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

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

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

Fail-safe/Fail-secure field selectable.

BHMA Grade 1 Electric Strike

Need an Installation Tool
See page 51
The best way to mark and drill for the 4850 is the 4850-ITL.

<table>
<thead>
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<td></td>
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<tr>
<td></td>
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<tr>
<td></td>
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</tbody>
</table>

Price:

| 4850-32D | (Satin Stainless Steel – BHMA630) | $499 |
| 4850-DKBZ | (Dark Bronze Powder Coated – BHMA613E) | $530 |
| 4850-US4 | (Satin Brass – BHMA606) | $580 |
| 4850-US10 | (Satin Bronze – BHMA612) |
| 4850-32 | (Polished Stainless Steel – BHMA629) | $595 |
| 4850-US3 | (Bright Brass – BHMA605) |

See Page 23 for options.
THE LOW CURRENT DRAW SOLUTION
FOR RIM PANIC EXIT DEVICES

The 4850PoE & LCD

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

Electric Characteristics

<table>
<thead>
<tr>
<th>Item</th>
<th>Voltage</th>
<th>Amps</th>
<th>Watts</th>
<th>Duty</th>
<th>Sound</th>
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</thead>
<tbody>
<tr>
<td>4850PoE</td>
<td>12DC</td>
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<td>3.12</td>
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<td>Silent</td>
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<td>4850LCD</td>
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<td>Silent</td>
</tr>
</tbody>
</table>

Other surface mounted strikes start at:

- 12DC: 0.450, 5.40
- 24DC: 0.250, 6.00

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

1/2” 1/4” 1/16”

1/2”

Now with two 1/16” spacers

4850 Series Dimensions

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

Price:

- 4850PoE-32D (Satin Stainless Steel – BHMA630) $499
- 4850PoE-DKBZ (Dark Bronze Powder Coated – BHMA613E) $530
- 4850PoE-US4 (Satin Brass – BHMA606) $580
- 4850PoE-US10 (Satin Bronze – BHMA612) $580
- 4850PoE-32 (Polished Stainless Steel – BHMA629) $595
- 4850PoE-US3 (Bright Brass – BHMA605)

See Page 23 for options.

www.trineonline.com
4800 Series

4801 - “Bolt” Strike

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

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

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

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

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

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

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>SKU</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>4801-32D</td>
<td>Satin Stainless Steel – BHMA630</td>
<td>$530</td>
</tr>
<tr>
<td>4801-DKBZ</td>
<td>Dark Bronze Powder Coated – BHMA613E</td>
<td>$535</td>
</tr>
<tr>
<td>4801-US4</td>
<td>Satin Brass – BHMA606</td>
<td>$599</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>$610</td>
</tr>
<tr>
<td>4801-US3</td>
<td>Bright Brass – BHMA605</td>
<td></td>
</tr>
</tbody>
</table>

Add “LB” to any 4800 series electric strike

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

Add $99.00 to the price of the base unit.

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

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

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

THE CONFIGURATION IS YOUR CHOICE

4800 Series Accessories

MWH-5
REMOVABLE MULLION WIRE HARNESS FOR 4800 SERIES ELECTRIC STRIKES
Contains:
• (1) 5’ Wire for mullion with male/female connectors.
• (1) Male connector & (1) Female connector.
• (1) Mullion cap, & (1) Wire adhesive.

Price:
$35

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

Price:
$29

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

Price:
$29

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

Price:
$25
$29
$34
$40
$49

www.trineonline.com
THE ONE BOX SOLUTION
FOR ALL GATE AND OUTDOOR INSTALLATIONS

EN400CMRP
THE GATE “KIT”
FOR ELECTRIC STRIKES

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

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

- 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.

**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.

```
Model #  Voltage  Finish  Handing
example:  400     12DC    32D    RH
```

*Fail Safe Request: Please add “RS” to item# example: 400RS-12DC-32D-RH

Add $15 to list price of base model.

**Electric Characteristics**

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

**Wire Lead Color Codes**

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

**Need an Installation Tool**

See page 51. The best way to mark and cut for the EN400 is the ANSI-ITL.
**The Flexible 400CMRP Includes:**

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

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

- The EN400-Gatebox - Mount the strike anywhere.

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

- Fail safe/Fail secure field reversible.

- Always Low Current Draw

---

**EN400-Gatebox**

Install the EN400CMRP anywhere on the frame or post.

---

**Price:**

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>400CMRP-32D</td>
<td>(Satin Stainless Steel – BHMA630) - unit comes as a 400-12DC-32D-RH; RP (rim panic) latch and 24DC coil are in the box.</td>
<td>$535</td>
</tr>
<tr>
<td>400RPCM-32D</td>
<td>(Satin Stainless Steel – BHMA630) - unit comes as a 400RP-24DC-32D-RH; CM (cylindrical/mortise) latch and 12DC coil are in the box.</td>
<td>$535</td>
</tr>
</tbody>
</table>

Kits cannot be ordered with latchbolt (LB) monitoring. Please order from page 27 with a gatebox to match.
EN400

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

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

<table>
<thead>
<tr>
<th>Finish</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>400-32D</td>
<td>$430</td>
</tr>
<tr>
<td>(Satin Stainless Steel – BHMA630)</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 – BHMA613)
- **400-32** (Polished Stainless – BHMA629)

EN400-Gatebox
(Steel Gatebox, unfinished) $48

EN400-Gatebox-AL
(Aluminium Gatebox) $78

EN400RP

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

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

<table>
<thead>
<tr>
<th>Finish</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>400RP-32D</td>
<td>$430</td>
</tr>
<tr>
<td>(Satin Stainless Steel – BHMA630)</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 – BHMA613)
- **400RP-32** (Polished Stainless – BHMA629)

EN400-Gatebox
(Steel Gatebox, unfinished) $48

EN400-Gatebox-AL
(Aluminium Gatebox) $78

(Not UL 10C listed)
EN Series

**EN430 - CAVITY CENTERLINE OFFSET 1”**
For new or replacement installations in metal jambs. Use with mortise lock latchbolts with up to 7/8” throw without relocating centerline. Based on 1/8” door gap.

Latch Shim Kit provided for horizontal cavity adjustment.

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

Price:
- **430-32D** $450
  (Satin Stainless Steel – BHMA630)

The following finishes are:
- **430-US3** $500
  (Bright Brass – BHMA605)
- **430-US4** $500
  (Satin Brass – BHMA606)
- **430-US10** $500
  (Satin Bronze – BHMA612)
- **430-US10B** $500
  (Dark Bronze – BHMA640)
- **430-32** $500
  (Polished Stainless – BHMA629)

The EN430 is handed, please specify LH or RH

**EN800 – GREAT FOR OUTDOOR GATES**
For new or replacement installations in wood or metal single door jambs. Use with surface mounted rim exit devices with up to 1” throw. 3/4” thick face plate.

(Not UL 10C Listed)

Works with Rim Panic Exit Devices

Price:
- **800-32D** $480
  (Satin Stainless Steel – BHMA630)

The following finishes are:
- **800-US3** $525
  (Bright Brass – BHMA605)
- **800-US4** $525
  (Satin Brass – BHMA606)
- **800-US10** $525
  (Satin Bronze – BHMA612)
- **800-US10B** $525
  (Dark Bronze – BHMA613)
- **800-32** $525
  (Polished Stainless – BHMA629)

**EN435 - CAVITY CENTERLINE OFFSET 3/4”**
For new or replacement installations in metal jambs. Use with mortise lock latchbolts with up to 7/8” throw without relocating centerline. Based on 1/8” door gap.

Latch Shim Kit provided for horizontal cavity adjustment.

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

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

Price:
- **435-32D** $450
  (Satin Stainless Steel – BHMA630)

The following finishes are:
- **435-US3** $500
  (Bright Brass – BHMA605)
- **435-US4** $500
  (Satin Brass – BHMA606)
- **435-US10** $500
  (Satin Bronze – BHMA612)
- **435-US10B** $500
  (Dark Bronze – BHMA640)
- **435-32** $500
  (Polished Stainless – BHMA629)

The EN435 is handed, please specify LH or RH

Refer to pg 25 for “How to Order”

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.

Price:

850-32D  $495
(Satin Stainless Steel – BHMA630)

The following finishes are:

• 850-US3  (Bright Brass – BHMA605)
• 850-US4  (Satin Brass – BHMA606)
• 850-US10  (Satin Bronze – BHMA611)
• 850-US10B  (Dark Bronze – BHMA613)
• 850-32  (Polished Stainless – BHMA629)

950-32D  $490
(Satin Stainless Steel – BHMA630)

The following finishes are:

• 950-US3  (Bright Brass – BHMA605)
• 950-US4  (Satin Brass – BHMA606)
• 950-US10  (Satin Bronze – BHMA612)
• 950-US10B  (Dark Bronze – BHMA613)
• 950-32  (Polished Stainless – BHMA629)

960-32D  $540
(Satin Stainless Steel – BHMA630)

The following finishes are:

• 960-US3  (Bright Brass – BHMA605)
• 960-US4  (Satin Brass – BHMA606)
• 960-US10  (Satin Bronze – BHMA612)
• 960-US10B  (Dark Bronze – BHMA613)
• 960-32  (Polished Stainless – BHMA629)
The NEW LBSM for the 400, 950, 960

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

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

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

EN-LB – LATCHBOLT MONITORING
- Remote central station notification
- Local alarm monitoring relay
- Triggering video surveillance/recording systems
- Active relay for trap door systems

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

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 $95 to the price of the base unit.
## EN Series Accessories

### DESCRIPTION

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.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
<th>Price:</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC-100</td>
<td>Coil Assembly (Orange/White Wire Leads)</td>
<td>$45</td>
</tr>
<tr>
<td>EN-CA-12DC</td>
<td>Coil Assembly (Black/White Wire Leads)</td>
<td>$45</td>
</tr>
<tr>
<td>EN-CA-24DC</td>
<td>Coil Assembly (Blue/Orange &amp; White Wire Leads)</td>
<td>$45</td>
</tr>
<tr>
<td>EN-CA-12AC</td>
<td>Coil Assembly (Blue/Black &amp; White Wire Leads)</td>
<td>$45</td>
</tr>
<tr>
<td>EN-CA-24AC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN-SLR-RS</td>
<td>(1) Fail Safe Slider for 430/435 Units</td>
<td>$30</td>
</tr>
<tr>
<td>TRS</td>
<td>(2) Tamper-Resistant Torx® #12-24 Screws</td>
<td>$8</td>
</tr>
<tr>
<td>EN-TS</td>
<td>Trim Skirt (Not for use with 950 &amp; 960)</td>
<td>$25</td>
</tr>
<tr>
<td>EN-LSK</td>
<td>EN Latch Shim Kit for horizontal cavity adjustment.</td>
<td>$15</td>
</tr>
<tr>
<td>ESK-1</td>
<td>EN Service Kit:</td>
<td>$15</td>
</tr>
<tr>
<td></td>
<td>• (1) Latch spring</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• (2) PFH 12-24x1&quot; 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>$18</td>
</tr>
<tr>
<td>BZ-24</td>
<td>Buzzer for 24 DC operation</td>
<td>$18</td>
</tr>
<tr>
<td>EN400-Gatebox</td>
<td>The weldable gate box solution for use with the EN400 &amp; EN400RP</td>
<td>$48</td>
</tr>
<tr>
<td></td>
<td>Outdoor rated electric strikes. (Steel gatebox is Not Finished).</td>
<td></td>
</tr>
<tr>
<td>EN400-Gatebox-AL</td>
<td>The aluminum gate box solution for use with the EN400 &amp; 400RP.</td>
<td>$78</td>
</tr>
</tbody>
</table>

### Dimensions

![Dimensions Diagram](Image)
THE ONE BOX SOLUTION
THE SMALLEST ELECTRIC STRIKE IN THE WORLD

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

THE SMALLEST ELECTRIC STRIKE IN THE WORLD IS FIRE RATED
3000 Series

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

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

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

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

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

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

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

**Price:** $55

**Price:** $18

**Price:** $25

<table>
<thead>
<tr>
<th>MODEL</th>
<th>VOLTAGE</th>
<th>CURRENT/AMPS</th>
<th>OHMS</th>
<th>DUTY</th>
<th>SOUND</th>
<th>WIRE COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>3012</td>
<td>12VDC</td>
<td>.480</td>
<td>25</td>
<td>Intermittent</td>
<td>Silent</td>
<td>Blue</td>
</tr>
<tr>
<td>3024</td>
<td>24VDC</td>
<td>.240</td>
<td>100</td>
<td>Intermittent</td>
<td>Silent</td>
<td>White</td>
</tr>
</tbody>
</table>

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

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

**Price:** $149

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage</th>
<th>Function</th>
<th>Duty</th>
<th>Price:</th>
</tr>
</thead>
<tbody>
<tr>
<td>3012</td>
<td>12DC</td>
<td>Fail Secure</td>
<td>Intermittent</td>
<td>$149</td>
</tr>
<tr>
<td>3024</td>
<td>24DC</td>
<td>Fail Secure</td>
<td>Intermittent</td>
<td>$149</td>
</tr>
</tbody>
</table>

**Price:** $185

<table>
<thead>
<tr>
<th>Item</th>
<th>Voltage</th>
<th>Function</th>
<th>Duty</th>
<th>Price:</th>
</tr>
</thead>
<tbody>
<tr>
<td>30LC</td>
<td>11-29AC/DC</td>
<td>Fail Secure</td>
<td>Continuous</td>
<td>$185</td>
</tr>
<tr>
<td>30RS</td>
<td>11-29AC/DC</td>
<td>Fail Safe</td>
<td>Continuous</td>
<td>$185</td>
</tr>
</tbody>
</table>

**Price:** $185

**Price:** $185

**Price:** $185

**Price:** $185

Now pick a Faceplate - starting on page 36

www.trineonline.com
**NEW** FIRE RATED
SMALLEST ELECTRIC STRIKE IN THE WORLD

323478F-LC
FORGING NEW SOLUTIONS WITH ELECTRIC STRIKES

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

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

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

Refer to pg 33 for electrical characteristics.

<table>
<thead>
<tr>
<th>Price</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>$399</td>
<td>323478F-LC-32D (Satin Stainless Steel – BHMA630)</td>
</tr>
<tr>
<td>$399</td>
<td>323478F-RS-32D (Satin Stainless Steel – BHMA630)</td>
</tr>
<tr>
<td>$419</td>
<td>323478F-LC-DKBZ (Dark Bronze Powder Coat)</td>
</tr>
<tr>
<td>$419</td>
<td>323478F-RS-DKBZ (Dark Bronze Powder Coat)</td>
</tr>
</tbody>
</table>

NEW* 1/8" HORIZONTAL ADJUSTMENT ADDED TO 234/X FACEPLATE

323478FX-LC
As above.
Contains the 478X-375 Faceplate for Timely®/Redi®/Raco Frames (instead of the 478 Faceplate.)

Refer to pg 33 for electrical characteristics.

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</tr>
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<td>$439</td>
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</tr>
</tbody>
</table>

Need an Installation Tool
See page 51

The best way to mark and cut the 323478F-LC use the ANSI-ITL

FORGING
NEW SOLUTIONS
WITH ELECTRIC STRIKES

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

323478F-LC
FORGING NEW SOLUTIONS WITH ELECTRIC STRIKES

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

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

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

Refer to pg 33 for electrical characteristics.

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NEW* 1/8" HORIZONTAL ADJUSTMENT ADDED TO 234/X FACEPLATE

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Need an Installation Tool
See page 51

The best way to mark and cut the 323478F-LC use the ANSI-ITL

FORGING
NEW SOLUTIONS
WITH ELECTRIC STRIKES

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

323478F-LC
FORGING NEW SOLUTIONS WITH ELECTRIC STRIKES

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

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

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

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NEW* 1/8" HORIZONTAL ADJUSTMENT ADDED TO 234/X FACEPLATE

323478FX-LC
As above.
Contains the 478X-375 Faceplate for Timely®/Redi®/Raco Frames (instead of the 478 Faceplate.)

Refer to pg 33 for electrical characteristics.

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<td>$439</td>
<td>323478FX-LC-DKBZ (Dark Bronze Powder Coat)</td>
</tr>
</tbody>
</table>
FOR CYLINDRICAL LOCKS

323478LC KIT

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

Price: $239

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

Price: $269

80% LESS FRAME CUTTING. Smallest aluminum solution available - Great for glass store fronts

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

See page 40 for cut out details.

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

478
Adjustable 4-7/8" ANSI standard faceplate

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

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

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

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

60% LESS CUTTING of Frame Face for ANSI 4 7/8" pre-prep frames.

No ugly black ramp!

Price:

- 478-32D (Satin Stainless Steel – BHMA630) $35
- 478-32 (Polished Stainless Steel – BHMA629) $59
- 478-US10B (Dark Bronze Powder Coat) $51
- 478-US3 (Bright Brass – BHMA605) $66
- 478-US4 (Satin Brass – BHMA606) $54

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 51 The best way to mark and cut in the 323478-LC is the ANSI-ITL.

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

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

Provides a finished look for wood frames with trim.

Made for Timely®/Redi®/Raco® Frames

GOODBYE UNATTRACTIVE BLACK RAMPS!

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

See page 43 for wood and metal frame preps.

Price:

<table>
<thead>
<tr>
<th>Model</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>478X-375-32D</td>
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</tr>
<tr>
<td>478X-375-US10B</td>
<td>$66</td>
</tr>
<tr>
<td>478X-375-US3</td>
<td>$73</td>
</tr>
<tr>
<td>RD (Radiused Corners)</td>
<td>add $5</td>
</tr>
</tbody>
</table>

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

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

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

Accommodates for door sag.

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

THE 3000 SERIES

234 Faceplate - Smallest Electric Strike in the World

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

Price:
- 234-26D (Satin Chrome – BHMA651) $25
- 234-US10B (Dark Bronze Powder Coat) $28
- 234-US3 (Bright Brass – BHMA605) $37
- 234-US4 (Satin Brass – BHMA606) $27

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) $30
- 234X-375-US10B (Dark Bronze Powder Coat) $33
- 234X-375-US3 (Bright Brass – BHMA605) $40

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

Great for wood frames!

Made for Timely®/Redi® Frames

334 Faceplate

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

Price:
- 334-26D (Satin Chrome – BHMA651) $30
- 334-US3 (Bright Brass – BHMA605) $34
- 334-US4 (Satin Brass – BHMA606) $29

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) $30
- 258-US10B (Dark Bronze Powder Coat) $33

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) $30
- 258RD-US10B (Dark Bronze Powder Coat) $33

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) $56
- 458-DKBZ (Dark Bronze Powder Coat) $56

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

**Must Specify Handing**
- RH or LH

Note: Faceplates are now powder coated.
3000 Series Strikes Reduce Amount of Labor, Time, and Material Lost On Door Frame

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

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

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

**234**
WOOD FRAME

**234X-375**
WOOD FRAME

---

**NOTE:** USE 2 INCH LONG (OR LONGER) WOOD SCREWS FOR MOUNTING.
258 ALUMINUM FRAME

458 ALUMINUM FRAME

258RD ALUMINUM DOORS

334 WOOD FRAME

Radius of faceplate matches the radius surface of the door.

LEFT HAND SHOWN

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

478 & 323478F-LC HOLLOW METAL FRAME

NO UGLY BLACK RAMPS!

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

478X-375 WOOD FRAME

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

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

The original Trine line
**Light Commercial Electric Strikes**

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

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Amps</th>
<th>Ohms</th>
<th>Sound</th>
<th>Duty</th>
<th>Wire Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>8-16VAC/4-6VDC</td>
<td>1.3-2.7</td>
<td>1.4</td>
<td>Buzz</td>
<td>Intermittent</td>
<td>Black</td>
</tr>
<tr>
<td>12VDC</td>
<td>0.40</td>
<td>30.0</td>
<td>Silent</td>
<td>Continuous</td>
<td>Red/White</td>
</tr>
<tr>
<td>24VAC</td>
<td>1.40</td>
<td>4.7</td>
<td>Buzz</td>
<td>Intermittent</td>
<td>Red</td>
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<tr>
<td>24VDC</td>
<td>0.19</td>
<td>125.0</td>
<td>Silent</td>
<td>Continuous</td>
<td>Black/White</td>
</tr>
</tbody>
</table>

#### 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) $52
- 001C (Satin Chrome – BHMA651) $59
- 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) $84
- 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) $94
- 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) $97
- 004C (Satin Chrome – BHMA651) $103
- 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”

Price:
005 (Brass Powder Coated) $64
005C (Satin Chrome – BHMA651) $70
RS (Fail Safe) - For DC Models only. add $20

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

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

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

Price:
HD005 (Brass Powder Coated) $85
HD005C (Satin Chrome – BHMA651) $90
RS (Fail Safe) - For DC Models only. add $20

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

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

Price:
S005 (Brass Powder Coated) $75
S005C (Satin Chrome – BHMA651) $83
RS (Fail Safe) - For DC Models only. add $20

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

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

Price:
006 (Brass Powder Coated) $105
RS (Fail Safe) - For DC Models only. add $20

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

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

Price:
007 (Brass Powder Coated) $100
007C (Satin Chrome – BHMA651) $105
RS (Fail Safe) - For DC Models only. add $20

www.trineonline.com
Light Commercial Electric Strikes

**ANSI 01 Series**

**FEATURES**
- Miniature Design
- Die Cast Case
- Solid Cast Latch - Chrome Plated
- Non-Handed
- Heavy Duty Latch Spring

<table>
<thead>
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<th>Sound</th>
<th>Duty</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-16VAC</td>
<td>0.60 - 0.90</td>
<td>10.0</td>
<td>Buzz</td>
<td>Intermittent</td>
</tr>
<tr>
<td>12VDC</td>
<td>0.50</td>
<td>10.0</td>
<td>Silent</td>
<td>Continuous</td>
</tr>
<tr>
<td>24VAC</td>
<td>0.42</td>
<td>47.0</td>
<td>Buzz</td>
<td>Intermittent</td>
</tr>
<tr>
<td>24VDC</td>
<td>0.20</td>
<td>119.0</td>
<td>Silent</td>
<td>Continuous</td>
</tr>
</tbody>
</table>

**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”

**Price:**
- 012 (Brass Powder Coated) $125
- 012C (Satin Chrome – BHMA651) $129
- RS (Fail Safe) - 24DC Model only. add $30

**FEATURES**
- Miniature Design
- Die Cast Case
- Solid Cast Latch - Chrome Plated
- Non-Handed
- Heavy Duty Latch Spring

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<th>Duty</th>
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</thead>
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<tr>
<td>10-16VAC</td>
<td>0.82 - 1.44</td>
<td>6.8</td>
<td>Buzz</td>
<td>Intermittent</td>
</tr>
<tr>
<td>12VDC</td>
<td>0.184</td>
<td>65.0</td>
<td>Silent</td>
<td>Continuous</td>
</tr>
<tr>
<td>24VAC</td>
<td>0.895</td>
<td>14.0</td>
<td>Buzz</td>
<td>Intermittent</td>
</tr>
<tr>
<td>24VDC</td>
<td>0.100</td>
<td>240.0</td>
<td>Silent</td>
<td>Continuous</td>
</tr>
</tbody>
</table>

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

**Price:**
- 014 (Brass Powder Coated) $99
- 014C (Satin Chrome – BHMA651) $105

www.trineonline.com
The Adjustable 2000 Series

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

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<th>Duty</th>
</tr>
</thead>
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<tr>
<td>6-14VAC</td>
<td>0.44 - 1.10</td>
<td>8.5</td>
<td>Buzz</td>
<td>Intermittent</td>
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<td>6-14VDC</td>
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<tr>
<td>16-24VAC</td>
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<td>50.0</td>
<td>Buzz</td>
<td>Intermittent</td>
</tr>
<tr>
<td>16-24VDC</td>
<td>0.32 - 0.47</td>
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<td>Intermittent</td>
</tr>
<tr>
<td>12VDC</td>
<td>0.200</td>
<td>60.0</td>
<td>Silent</td>
<td>Continuous</td>
</tr>
<tr>
<td>24VDC</td>
<td>0.12</td>
<td>120.0</td>
<td>Silent</td>
<td>Continuous</td>
</tr>
</tbody>
</table>

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

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

Price:
2001 (Brass Powder Coated) $94
2001C (Satin Chrome – BHMA651) $100

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

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

Price:
2002 (Aluminum Powder Coated) $109
2002DB (Dark Bronze Powder Coated) $113
RS (Fail Safe) - For DC Models only. add $20

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

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

Price:
2007 (Brass Powder Coated) $115
2007C (Satin Chrome – BHMA651) $120
2007DB (Dark Bronze Powder Coated) $120
RS (Fail Safe) - For DC Models only. add $20

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

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

Price:
2009 (Brass Powder Coated) $122
2009C (Satin Chrome – BHMA651) $127
2009DB (Dark Bronze Powder Coated) $127
RS (Fail Safe) - For DC Models only. add $20
The Adjustable 2000 Series

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”

Price:
2012 (Brass Powder Coated) $126
2012C (Satin Chrome – BHMA651) $129
2012DB (Dark Bronze Powder Coated) $129
RS (Fail Safe) - For DC Models only. add $20

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”

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

The 1000 Series

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

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

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

Price:
1001-2 (Brass Powder Coated) $74
1001-2C (Satin Chrome – BHMA651) $80
RS (Fail Safe) - For DC Models only. $20

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

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

Price:
1002-2 (Aluminum Powder Coated) $96
1002-2DB (Dark Bronze Powder Coated) $101

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

www.trineonline.com
ACCESSORIES

4850-ITL
INSTALL 4800 SERIES STRIKES EASIER

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

018-4/017TDC-4
NOW UTILIZING ROLLING CODE WITH OVER 4+ BILLION CODES AND IN A VARIETY OF COLORS.
THE INSTALLATION SOLUTION
FOR THE TRINE STRIKES

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 $65

www.trineonline.com
THE NEW LATCHBOLT MONITORING SOLUTION

LBM-1
SINGLE SWITCH FOR CYLINDRICAL LOCKS

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

LBM-2
DOUBLE SWITCH FOR MORTISE LOCKS

The microswitch used for over 30 years...

IS A THING OF THE PAST.

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

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

Strike Plate is not provided!

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

Patent Pending

Price:
- LBM-1 $118
- LBM-2 $155

Strike Plate is not provided!

www.trineonline.com
**Accessories**

**Wireless Chimes**

**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 | $89 |

---

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

**Price:**

| 233 | $41 |

www.trineonline.com
New Upgraded Wireless Controller & Transmitter

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

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

Price: 017TDC-4 $85

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: 018-4-BLK 018-4-BLU 018-4-RED 018-4-WHT $35

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 $28

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 100 ft 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 $57

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 $12

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 $21
<table>
<thead>
<tr>
<th>Code</th>
<th>Product</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>201</td>
<td>CHIME KIT</td>
<td>(1) White chime base, (2) Unlighted 66W white push buttons, and (1) 16VAC-10VA Hard wire transformer. Mounting hardware included, excluding wire. Offers 2 note front door/1 note rear door ability.</td>
<td>$29</td>
</tr>
<tr>
<td>203</td>
<td>CHIME KIT</td>
<td>(1) White chime base, (1) Lighted 45LG push button, and (1) 16VAC-10VA Hard wire transformer. Mounting hardware included, excluding wire. Offers 2 note front door/1 note rear door ability.</td>
<td>$29</td>
</tr>
<tr>
<td>240</td>
<td>CHIME</td>
<td>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&quot; x 4-3/4&quot; x 1-7/8&quot;</td>
<td>$30</td>
</tr>
<tr>
<td>296</td>
<td>CHIME</td>
<td>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&quot; x 4&quot; x 2&quot;</td>
<td>$20</td>
</tr>
<tr>
<td>270</td>
<td>BUZZER</td>
<td>Enclosed buzzer – 92db sound at 3 feet. Operating range 3-6VDC, 8-16 VAC, 1 Amp draw. Aluminum powder coat finish. Includes mounting hardware.</td>
<td>$16</td>
</tr>
<tr>
<td>272</td>
<td>BELL</td>
<td>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.</td>
<td>$18</td>
</tr>
<tr>
<td>274</td>
<td>BELL</td>
<td>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.</td>
<td>$20</td>
</tr>
<tr>
<td>275</td>
<td>ENCLOSED BELL</td>
<td>88 db at 3 feet. Operating range: 3-8VDC, 1.4 Amp draw. 6-8VAC, 0.7 Amp draw. Grey finish – Includes mounting hardware.</td>
<td>$22</td>
</tr>
<tr>
<td>276</td>
<td>ENCLOSED BELL &amp; BUZZER</td>
<td>88 db at 3 feet. Operating range: 3-8VDC, 1.4 Amp draw. 6-8VAC, 0.7 Amp draw. Grey finish – Includes mounting hardware.</td>
<td>$26</td>
</tr>
</tbody>
</table>
For electric strikes, bells, buzzers, chimes, and other low voltage devices. A complete line of U.L. Listed step down transformers. Easy to install, low voltage, 120AC primary for residential, commercial and industrial uses. Transformers will safely take themselves off line when they overheat. Transformers can be either base mounted or attached to standard knockouts on boxes or cabinets (except plug-in types.) All primary leads are pre-striped for quick connection.

<table>
<thead>
<tr>
<th>Model</th>
<th>Quantity</th>
<th>Type</th>
<th>Accessories</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>522</td>
<td>1</td>
<td>LOCKNUT TYPE (AC)</td>
<td>120 volt primary AC</td>
<td>$18</td>
</tr>
<tr>
<td>525</td>
<td>2</td>
<td>CLAMP ON TYPE/TRI VOLT (AC)</td>
<td>120 volt primary AC, 2-1/4&quot;D x 2-3/16&quot;H x 2-5/16&quot;W 13oz</td>
<td>$26</td>
</tr>
<tr>
<td>598</td>
<td>2</td>
<td>CLAMP ON TYPE/TRI VOLT (AC)</td>
<td>120 volt primary AC, 2-15/16&quot;D x 2-7/32&quot;H x 2-11/32&quot;W 1lb 6oz</td>
<td>$29</td>
</tr>
<tr>
<td>599</td>
<td>2</td>
<td>CLAMP ON TYPE (AC)</td>
<td>120 volt primary AC, 2-15/16&quot;D x 2-7/32&quot;H x 2-11/32&quot;W 1lb 6oz</td>
<td>$30</td>
</tr>
<tr>
<td>5201</td>
<td>3</td>
<td>PLUG IN TYPE (AC)</td>
<td>2-3/16&quot;D x 2-1/2&quot;W 7oz</td>
<td>$26</td>
</tr>
<tr>
<td>5203</td>
<td>3</td>
<td>PLUG IN TYPE (AC)</td>
<td>2-3/16&quot;D x 2-1/2&quot;W 7oz</td>
<td>$26</td>
</tr>
<tr>
<td>5204</td>
<td>3</td>
<td>PLUG IN TYPE (AC)</td>
<td>2-3/16&quot;D x 2-1/2&quot;W 7oz</td>
<td>$26</td>
</tr>
<tr>
<td>5205</td>
<td>4</td>
<td>PLUG IN TYPE/DC</td>
<td>2-3/16&quot;D x 2-3/8&quot;W 1lb 2oz</td>
<td>$31</td>
</tr>
<tr>
<td>5208</td>
<td>5</td>
<td>PLUG IN TYPE (DC)</td>
<td>2-3/16&quot;D x 2-3/8&quot;W 1lb 2oz</td>
<td>$33</td>
</tr>
<tr>
<td>5209</td>
<td>5</td>
<td>PLUG IN TYPE (DC)</td>
<td>2-3/16&quot;D x 2-3/8&quot;W 1lb 2oz</td>
<td>$33</td>
</tr>
<tr>
<td>SR1</td>
<td>6</td>
<td>SILICON RECTIFIER (SR-1)</td>
<td>For converting AC voltage to DC voltage</td>
<td>$26</td>
</tr>
</tbody>
</table>

Price:
522 $18
525 $26
598 $29
599 $30
5201 $26
5203 $26
5204 $26
5205 $31
5208 $33
5209 $33
SR1 $26
Pushbuttons

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

<table>
<thead>
<tr>
<th><strong>Model</strong></th>
<th><strong>Description</strong></th>
<th><strong>Price</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>JRP</td>
<td>Polished Solid Brass w/ black center 1-3/4” Body Diameter – for use up to 30 volts AC or DC</td>
<td>$8.50</td>
</tr>
<tr>
<td>SRP</td>
<td>Polished Solid Brass w/ black center 2-1/4” Body Diameter – for use up to 30 volts AC or DC</td>
<td>$9.00</td>
</tr>
<tr>
<td>45A</td>
<td>Silver Rim with Pearl Center 5/8” Body Diameter – for use up to 30 volts AC or DC</td>
<td>$6.00</td>
</tr>
<tr>
<td>45G</td>
<td>Gold Rim with Pearl Center 5/8” Body Diameter – for use up to 30 volts AC or DC</td>
<td>$6.00</td>
</tr>
<tr>
<td>45LA</td>
<td>Silver Rim with Lighted Pearl Center 5/8” Body Diameter – for use up to 16 volts AC or DC</td>
<td>$8.00</td>
</tr>
<tr>
<td>45LG</td>
<td>Gold Rim with Lighted Pearl Center 5/8” Body Diameter – for use up to 16 volts AC or DC</td>
<td>$8.00</td>
</tr>
<tr>
<td>66B</td>
<td>Black with White Bar Molded Plastic 2-3/4”L X 3/4”W X 5/8”H – for use up to 30 volts AC or DC</td>
<td>$6.00</td>
</tr>
<tr>
<td>66C</td>
<td>Silver w/ White Bar Molded Plastic 2-3/4”L X 3/4”W X 5/8”H – for use up to 30 volts AC or DC</td>
<td>$6.00</td>
</tr>
<tr>
<td>66G</td>
<td>Gold w/ White Bar Plated Molded Plastic 2-3/4”L X 3/4”W X 5/8”H – for use up to 30 volts AC or DC</td>
<td>$6.00</td>
</tr>
<tr>
<td>66W</td>
<td>White with White Bar Molded Plastic 2-3/4”L X 3/4”W X 5/8”H – for use up to 30 volts AC or DC</td>
<td>$6.00</td>
</tr>
<tr>
<td>66LB</td>
<td>Lighted Black w/ White Bar Molded Plastic 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>66LC</td>
<td>Lighted Silver w/ White Bar Plated Molded Plastic 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>66LG</td>
<td>Lighted Gold w/ White Bar Plated Molded Plastic 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>66LW</td>
<td>Lighted White w/ White Bar Molded Plastic 2-3/4”L X 3/4”W X 5/8”H – for use up to 16 volts AC or DC</td>
<td>$9.90</td>
</tr>
<tr>
<td>71A</td>
<td>Anodized Aluminum Housing w/ Black Bar 2-3/4”L X 1”W X 3/4”H – for use up to 30 volts AC or DC</td>
<td>$9.90</td>
</tr>
<tr>
<td>71DB</td>
<td>Dark Bronze Powder Coated Housing w/ Black Bar 2-3/4”L X 1”W X 3/4”H – for use up to 30 volts AC or DC</td>
<td>$9.90</td>
</tr>
<tr>
<td>71G</td>
<td>Anodized Brass Aluminum Housing w/ Black Bar 2-3/4”L X 1”W X 3/4”H – for use up to 30 volts AC or DC</td>
<td>$9.90</td>
</tr>
<tr>
<td>71LA</td>
<td>Lighted Anodized Aluminum Housing w/ White Bar 2-3/4”L X 1”W X 3/4”H – for use up to 16 volts AC or DC</td>
<td>$10.50</td>
</tr>
<tr>
<td>71DB</td>
<td>Dark Bronze Powder Coated Housing w/ White Bar 2-3/4”L X 1”W X 3/4”H – for use up to 16 volts AC or DC</td>
<td>$10.50</td>
</tr>
<tr>
<td>71LG</td>
<td>Lighted Anodized Brass Aluminum Housing w/ White Bar 2-3/4”L X 1”W X 3/4”H – for use up to 16 volts AC or DC</td>
<td>$10.50</td>
</tr>
<tr>
<td>91P</td>
<td>Multi-Family, Polished Solid Brass Housing 4-3/4”L X 5/8”W X 3/4”H – for use up to 30 volts AC or DC</td>
<td>$19.00</td>
</tr>
<tr>
<td>94P</td>
<td>3-Button Multi-Family, Polished Solid Brass Housing 7”L X 5/8”W X 3/4”H – for use up to 30 volts AC or DC</td>
<td>$21.00</td>
</tr>
</tbody>
</table>
Glossary

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 HANDELING

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 ampere 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.
### Strike Selector

#### What lockset do you have?

Your choice of electric strikes are:

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cylindrical Lock</td>
<td>Mortise with a deadbolt</td>
<td>Mortise Lock</td>
<td>Mortise Lock</td>
<td>Surface Mount Strikes</td>
<td>Surface Mount Strikes</td>
</tr>
</tbody>
</table>

**SPECIALIZED SOLUTIONS ELECTRIC STRIKE SERIES**

<table>
<thead>
<tr>
<th>Fire Rated</th>
<th>Fire Rated</th>
<th>Surface Mount Strikes</th>
<th>Surface Mount Strikes</th>
</tr>
</thead>
<tbody>
<tr>
<td>4100</td>
<td>4100DBDL</td>
<td>4200</td>
<td>294 &amp; Burg Rated</td>
</tr>
</tbody>
</table>

**Intertek**

- 3 Hour Fire, 1034, & 294 rated
- Fire Rated
- Independently operated latches
- Removeable Fascia to match the frame

**Compatible Door Frames**

- Aluminum
- Hollow Metal
- Wood

- Aluminum
- Hollow Metal
- Wood

- Aluminum
- Hollow Metal
- Wood

- Aluminum
- Hollow Metal
- Wood

- Hollow Metal
- Wood

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

**Unique Solution for Electric Strikes**

- 3 Hour Fire, 1034, & 294 rated
- Best strike for allowing deadbolt privacy with an override
- Color Options

**Example:**

- PRE-FINISHED FRAMES LIKE TIMELY®, REDI®, RACO®, FRAMEWORKS TYPE-II® WITH SNAP-ON TRIMS.
- Hollow Metal Frame
- Aluminum
- Wood
- Use 2" long mounting screws.

**UL**

**THE OUTDOOR SOLUTION FOR ELECTRIC STRIKES**

- 3 Hour Fire, 1034, & 294 rated

- Use 2" long mounting screws.

**F**

**F** for use on offset mortise locks in outdoor situations see 430/435 on pg 28
**Strike Selector**

**Smallest Electric Strike in the World**

**THE VERTICAL ROD LATCH SOLUTION**

The Dor-O-Matic™ Solution!!!

- 275VRP-LC
- 250SOM-LC

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

234X-375
234
478X-375
478
258, 258RD
458

**Compatible Strike Plates**

**Compatible Door Frames**

- Aluminum
- Hollow Metal
- Wood
- Aluminum
- Hollow Metal
- Wood
- Aluminum
- Formed Sheet Metal
- Wood
- Formed Sheet Metal
- Wood
- Hollow Metal
- Formed Sheet Metal
- Wood
- Hollow Metal
- Formed Sheet Metal
- Wood
- Hollow Metal
- Formed Sheet Metal
- Wood
- Aluminum
- Aluminum

**Not recommended for use on uncovered exterior doors.**

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

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The above text contains the Conditions of Sale for Trine Access Technology and related services. It outlines the terms and conditions for the sale of products and services, including delivery, payment terms, warranties, liability, and other important details. The text is clear and concise, ensuring that all parties understand their rights and responsibilities.
# Cross Reference Chart for Premium Electric Strikes

<table>
<thead>
<tr>
<th>TRINE</th>
<th>H.E.S.</th>
<th>Folger Adam</th>
<th>Von Duprin</th>
<th>Adams Rite</th>
<th>RCI</th>
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</thead>
<tbody>
<tr>
<td>4200</td>
<td>5000</td>
<td>4200</td>
<td>7100</td>
<td>4 Series</td>
<td></td>
</tr>
<tr>
<td>4100</td>
<td>4500</td>
<td>6400</td>
<td>7200</td>
<td>4 Series</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1006φ</td>
<td>6211/6211WF</td>
<td>2164φ</td>
<td>6 Series</td>
<td></td>
</tr>
<tr>
<td>4100DBDL</td>
<td>1006CDB ≠</td>
<td>6400 ≠</td>
<td>2114/F4114*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4850</td>
<td>9400Δ, 9600</td>
<td>6400 *</td>
<td>74R1</td>
<td>0161</td>
<td></td>
</tr>
<tr>
<td>4800F</td>
<td>9500, 9600</td>
<td>6300</td>
<td>74R2</td>
<td>0162F</td>
<td></td>
</tr>
<tr>
<td>4801</td>
<td>9700</td>
<td>7200</td>
<td>74R2</td>
<td>0162F</td>
<td></td>
</tr>
<tr>
<td>EN400</td>
<td>1006J/7501</td>
<td>72211/6211WF</td>
<td>7200</td>
<td>2114/F4114*</td>
<td></td>
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<tr>
<td>EN800**</td>
<td>7000-783S**</td>
<td>310-4</td>
<td>74R1</td>
<td>0161</td>
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<tr>
<td>EN850**</td>
<td>7000-789S**</td>
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<td>74R2</td>
<td>0161</td>
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<tr>
<td>EN950</td>
<td>7505</td>
<td>6215/6226</td>
<td>7400+</td>
<td>L6514+</td>
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<td>EN950W</td>
<td>310-2W</td>
<td>6215/6226</td>
<td>7400+</td>
<td>L6514+</td>
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<tr>
<td>EN960</td>
<td>310-2 3/4</td>
<td>6214/6224</td>
<td>7400+</td>
<td>L6514+</td>
<td></td>
</tr>
<tr>
<td>323478LC</td>
<td></td>
<td>6214/6224</td>
<td>7400+</td>
<td>L6514+</td>
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<tr>
<td>323478F-LC</td>
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<td>6214/6224</td>
<td>7400+</td>
<td>L6514+</td>
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<tr>
<td>234 ∂</td>
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<td>7400+</td>
<td>L6514+</td>
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<td>258‡ ∂</td>
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<td>L6514+</td>
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<tr>
<td>458Ω ∂</td>
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<tr>
<td>478‡ ∂</td>
<td>5000/5200+501</td>
<td>7400+</td>
<td>L6514+</td>
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<tr>
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<td>L6514+</td>
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<td>3275VRP-LC</td>
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<td>6214/6224</td>
<td>7400+</td>
<td>L6514+</td>
<td></td>
</tr>
</tbody>
</table>

* DBDL for night latch function only. Competition does not have independent latches to allow for levels of override.
† Strike has 1 1/16" backset vs. 1" backset for 3000 Series.
Ω Requires 80% less cutting of frame. 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" shettrock ingress
∂ Number is for the Faceplate – use with a 3012, 3024, 30LC, or 30RS Mechanism, see pg 29 for more details.

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