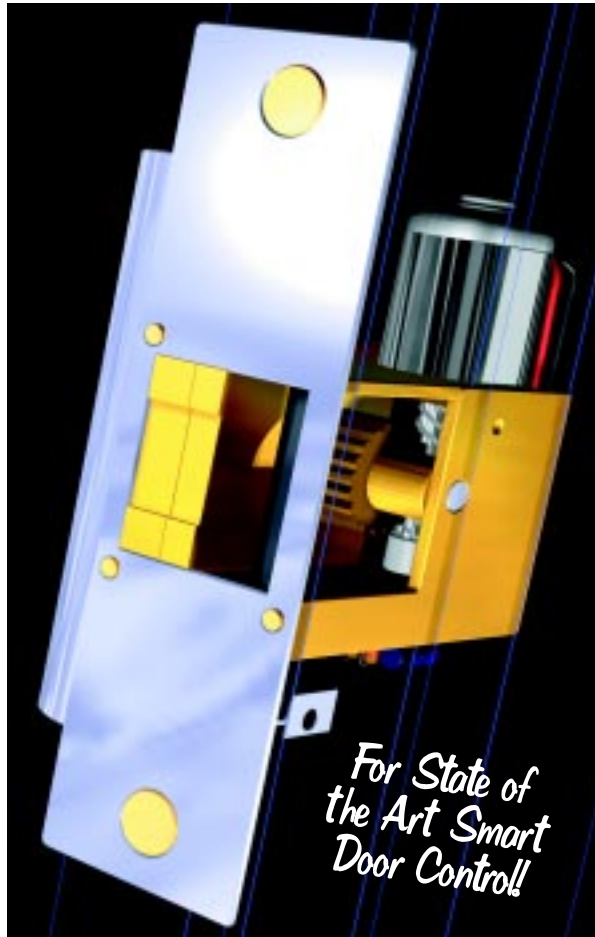


## UNLATCH™ MOTORIZED ELECTRONIC STRIKE

*A Revolutionary Breakthrough In Access Control Technology*



### OVERVIEW

Securiton's patented UnLatch is a completely new type of electric door releasing device which sweeps away the limitations inherent in traditional electric strike designs. The UnLatch **screws into the existing door frame in seconds**. There is no need for routing a special cut-out. This not only **saves on installation labor**, but maintains the original strength and integrity of the door frame and **yields a fully concealed installation** for maximum esthetic appeal.

The UnLatch is highly **universal** in that **one version** will operate any North American cylindrical type dead latch or spring latch and installs in **wood, steel or aluminum** door frames. Unlike conventional electric strikes, the UnLatch also **releases under pressure** and includes a **latch status monitoring output** as a standard feature. The UnLatch truly merits being called **revolutionary**.

### HOW IT WORKS

Basic operation of the UnLatch is the **same as electric strikes**. An **access device** (such as a card reader or digital keypad) activates the UnLatch for controlled entry. Egress is accomplished by simply turning the lock set lever or knob from the inside.

Conventional electric strikes include a plate called the **keeper** or gate which is electrically released to swing out and thereby allows the latch to move through the space the keeper has vacated. This keeper movement is the reason why a special cut needs to be made in the door frame. The cut-out provides a space for the keeper to swing in to.

The UnLatch however uses a **motor driven plunger** to **push the latch back** in to the door. There is no keeper and no reason to route out the door frame. For **dead**

# UNLATCH™

## MOTORIZED

### ELECTRONIC STRIKE

REVOLUTIONARY

latches, a second plunger separately controls the dead latch pin which is normally maintained in the retracted state for optimum security. The dead latch plunger then releases the dead latch pin just before the first plunger pushes in the spring latch to release the door. When the door is reclosed, the UnLatch automatically re-secures it including reestablishing full dead latch security. The UnLatch's unique and novel operation yields an **unprecedented array of benefits:**

## NEAR UNIVERSAL APPLICATION

A single UnLatch model will operate **any North American cylindrical type spring latch or dead latch** (by far, the most common latch type). There is no need to determine the specific brand of latching hardware, the UnLatch accepts all of them. Similarly, the same UnLatch model can be installed on **all door types:** steel, aluminum or wood. Problems of ending up with the wrong electric strike model for the door or latch type are virtually eliminated.

## MECHANICAL INSTALLATION IN SECONDS

Nearly all North American commercial door frames em-

ploy an **ANSI 4 7/8" strike plate**. The UnLatch is constructed around this standard plate, so mechanical installation generally consists of unscrewing the existing strike, and screwing the UnLatch into its place! All conventional electric strikes require a side cut into the door frame to accommodate the keeper. This not only requires considerable skilled labor time but weakens the door frame and degrades its appearance.

The UnLatch can also be installed on frames with residential type **ANSI 2 3/4"** strikes. While this requires more work, it remains mechanically much simpler than the installation of any

conventional electric strike, particularly on wood doors which are handled by simple chiseling.

## FULLY CONCEALED APPEARANCE

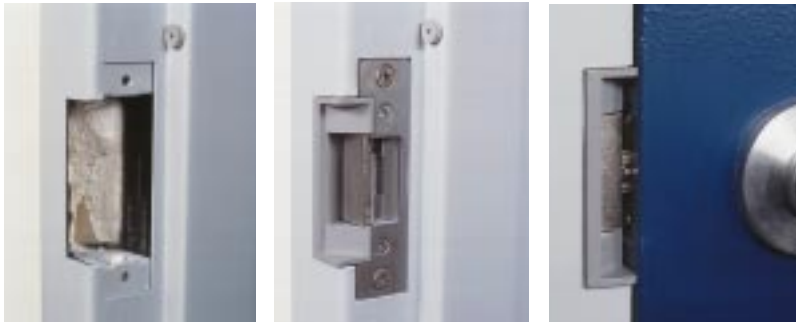
The prominent door frame side cut in a conventional electric strike installation not only degrades the appearance of the door and frame, but it's immediately obvious to an intruder that the door is secured with an electric strike. In contrast, **an UnLatch installation is physically indistinguishable from a standard mechanical lock set.** This allows

putting the door under electronic control without altering the architectural presentation in any way. This unprecedented benefit of the UnLatch also enhances security as intruders can't determine how the door is secured.

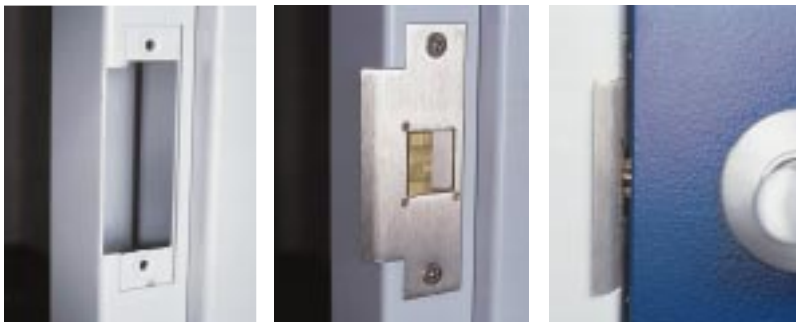
## FULL DEAD

## LATCHING SUPPORT

Conventional electric strikes work poorly and inconsistently with dead latches. Locksmiths will often remove the dead latching function from door hardware so as to avoid operational problems with the electric strike. This seriously degrades security as the latch can be released from the outside through use of a flexible card for instance.



Installation of an old-fashioned electric strike requires the tools and expertise to alter a door jamb. And even when properly done, the results are permanently unappealing and obtrusive...



...But the UnLatch requires absolutely no jamb alteration! It installs easily in seconds and provides a totally undetectable appearance that's truly State of the Art Smart!

# The UNLATCH™ Revealed

1

AT CYCLE POSITION ONE, THE DOOR IS OPEN AND THE UNLATCH IS READY TO ACCEPT THE LATCH AND DEADLATCH PIN.

2

AT POSITION TWO, THE DOOR HAS CLOSED AND A FULLY EXTENDED LATCH IS CAPTURED WHILE THE DEADLATCH PIN IS HELD BY ITS CORRESPONDING PLUNGER. THE DOOR IS NOW SECURE.

3

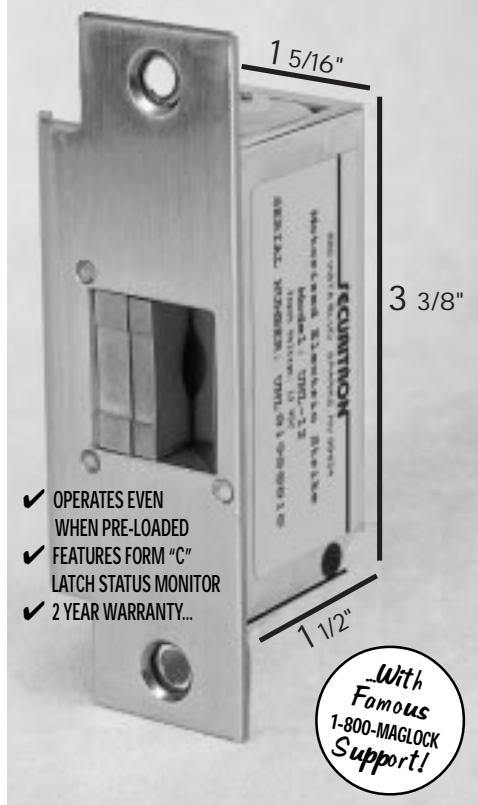
THE MOTOR ACTIVATES, RELEASING THE DEAD LATCH PIN AND BOTH PLUNGERS...

4

...SIMULTANEOUSLY PUSH FORWARD IN ONE-THIRD OF A SECOND, RELEASING THE DOOR.

FINALLY, THE UNLATCH'S ELECTRONIC BRAIN BRINGS THE UNIT BACK TO POSITION ONE, READY TO SECURE THE DOOR AGAIN.

**THE UNLATCH FITS ANY  
STANDARD ANSI 4 7/8" CUTOUT**



In contrast, the UnLatch makes precise and active use of the dead latch pin and therefore **maintains the dead latch function at all times**. The security level in an UnLatch installation is therefore the highest of which the door hardware is capable. Adding electronic control to a door shouldn't reduce security and with the UnLatch, it doesn't.

**OPENS UNDER PRESSURE;  
PERFORMS UNDER PRESSURE**

The UnLatch **reliably releases the door even when the person entering is already pulling on it**. Standard electric strikes can't do this and it makes their use more awkward compared to the UnLatch, as the person entering has to "try" the door multiple times. Another powerful advantage of the UnLatch is its resistance to abuse. Conventional electric strikes need frequent replacement in abusive door environments as the pivoting keeper receives the abuse and fails, but the rugged design and construction of the UnLatch makes it highly resistant to abuse-caused failure as the door latch, when rattled, impacts a solid

element within the UnLatch. You can expect **many years of trouble free operation** when you select the UnLatch.

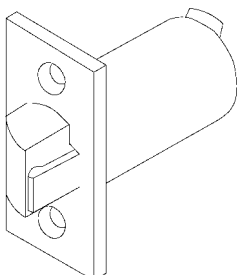
**LATCH STATUS AS A STANDARD**

Using an internal sensor, the UnLatch **"knows" when the door latch is in the secure condition** (the latch is seated within the UnLatch). This vital security information is reported out on **SPDT dry contacts** (three wire output). These contacts can be **wired to the local alarm or access control system** to significantly enhance building security. Any time a door fails to close and resecure, the alarm/access system is aware of it and a guard can be dispatched to check the door and correct the problem. The UnLatch becomes a key player in the building's physical security system as it catches propped doors, "sticking" doors, worn out door closers and improper behavior by individuals within the building. There are no loose ends in an UnLatch installation.

**HOW TO ORDER**


UNL-12 for 12 VDC operation.  
UNL-24 (available December '98) for 24 VDC operation.

**UNLATCH OPERATES CYLINDRICAL LATCHES WITH OR WITHOUT A DEADLATCH PIN.**




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**MORTISE LATCHES WILL NOT FUNCTION WITH THE UNLATCH.**





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**TECHNICAL DATA**

**Size:**  
Standard ANSI 4 7/8" Strike.

**Dimensions:**  
3 3/8" Long, 1 5/16" Wide, 1 1/2" Deep

**Voltage:**  
12 VDC +20% -10%. Full wave rectified DC acceptable.  
24 VDC (available December '98)

**Current Draw:**  
(@ 12VDC) 40mA continuous, minimum 300mA when motor is operating, higher capacity supply (1-3 Amps) is recommended for start-up inrush to achieve best operation under pre-load.

**Electric Motor:**  
No Solenoids.

**Operating Temperature Range:**  
-20°F to 125°F

**Stainless Steel Face with Metal Enclosure.**

**Supplied with 10 ft. Cable.**

**Mounting Fasteners Included.**

**Available From:**