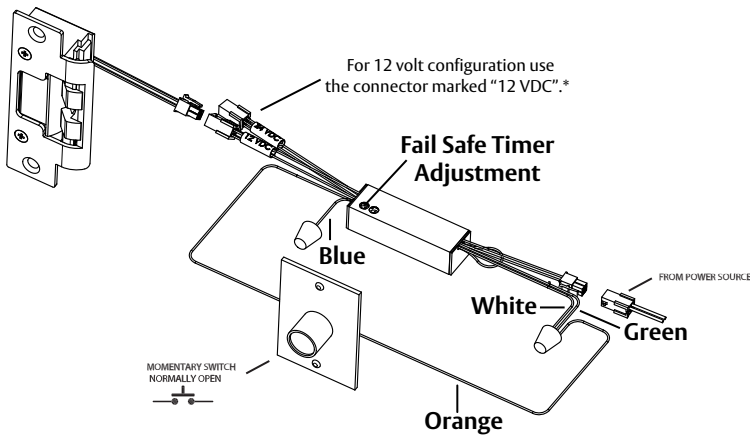


# Fail-Safe/Timed Release

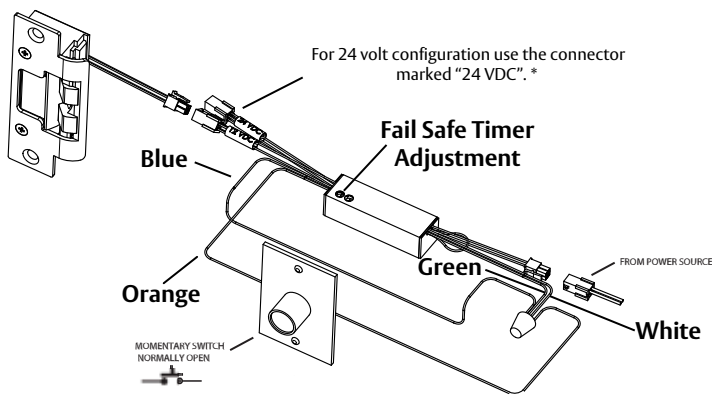
Connecting the SMART Pac II wires as indicated for this configuration will allow the user to release the strike for a selected amount of time, adjustable between 2-8 seconds.

After the timer expires, the strike will automatically reset to the secured condition

## 12 VOLT CONFIGURATION



## 24 VOLT CONFIGURATION



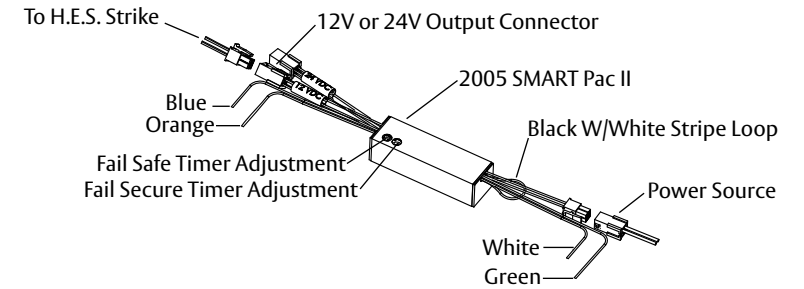
\*NOTE: Only one device can be connected per SMART Pac II. See Output Requirements for more info.

# CURRENT DRAW COMPARISON

1006 SERIES ELECTRIC STRIKE	24V SMART Pac II	7000 SERIES ELECTRIC STRIKE
DIRECT CONTROL: 260 mA AT 6.24 WATTS CONTINUOUS: 190 mA AT 4.56 WATTS		DIRECT CONTROL: 260 mA AT 6.24 WATTS CONTINUOUS: 190 mA AT 4.56 WATTS
24V WITHOUT SMART Pac II		
230 mA AT 5.52 WATTS		230 mA AT 5.52 WATTS
1006 SERIES ELECTRIC STRIKE	12V SMART Pac II	7000 SERIES ELECTRIC STRIKE
DIRECT CONTROL: 400 mA AT 4.8 WATTS CONTINUOUS: 340 mA AT 4.08 WATTS		DIRECT CONTROL: 400 mA AT 4.80 WATTS CONTINUOUS: 340 mA AT 4.08 WATTS
12V WITHOUT SMART Pac II		
450 mA AT 5.40 WATTS		450 mA AT 5.40 WATTS

Note: Drawings contained within this document are not to scale.

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## What the SMART Pac II does:

The SMART Pac II is a complex in-line power controller that makes operating an electric strike easy. It is capable of working with both Fail-Safe and Fail-Secure electric strikes in four different operational modes. The SMART Pac II includes a built in bridge rectifier, a zener diode to protect the host system from possible reverse current surges and a minimum activation timer.

The SMART Pac II can operate between 12 and 32 volts, either AC or DC. The SMART Pac II also has the ability to help the strike run cool during continuous duty applications. This is accomplished by applying the initial voltage to energize the electric strike and then reducing the voltage after a few seconds to a lower "holding" voltage. This has the effect of lowering the overall heat dissipated by the coil and makes it more efficient to operate over long periods.

## "DC Source Only" Conversion:

The 2005 SMART Pac II contains electronic components to rectify and filter an AC power source into a regulated 12V or 24V DC signal. In the case where a DC power supply is used (thus nullifying the need of the rectifier and filters), the input filter of the SMART Pac II acts as a capacitive load that will cause a higher than anticipated inrush current. Depending on the amount of resistance in the circuit, the system may experience an inrush current that is as much as 10 Amps over 3 milliseconds. To prevent the need to "size up" your relays to levels appropriate for such capacitive loading, the input-filter capacitor can be disconnected from the circuit by cutting the Black/W White Stripe loop. After the wire is cut, be sure to cap both free ends of the wire using the connectors provided or wire nuts. Other than limiting its filtering ability of rectified AC current, this conversion does not affect any other features of the SMART Pac II.

## Input Requirements:

The SMART Pac II will operate on 12-32 volts AC & DC. The input voltage must be equal to or greater than the voltage required by the Electric Strike.

## Output Requirements:

The SMART Pac II has two output options, 12 & 24 volts. These voltages can be selected by using different wire configurations. The maximum allowable current through the SMART Pac II is 500 milliamps. It is recommended that only one device is used per SMART Pac II. A device continually drawing more than 500 milliamps will damage the SMART Pac II.

For use with a 12 volt rated strike, the initial output voltage will be 12 volts (voltage will drop to 9 volts after a few seconds).

For use with a 24 volt rated strike, the initial output voltage will be 24 volts (voltage will drop to 18 volts after a few seconds).

## Modes Of Operation:

The SMART Pac II has four modes of operation, which are defined as: Fail/Safe/Direct Control, Fail Secure/Direct Control, Fail Safe/Timed Release, and Fail Secure/Timed Release. These options are available in both 12 & 24 volt applications. In all situations, Fail-Safe can be opened while not being energized. Fail-Secure cannot be opened unless power is supplied.

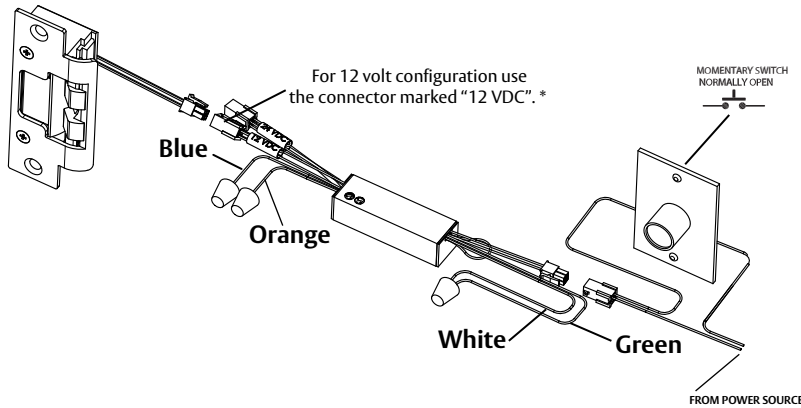
# Fail-Secure/Direct Control

Connecting the SMART Pac II wires as indicated for this configuration will allow the user to release the strike by pressing a button.

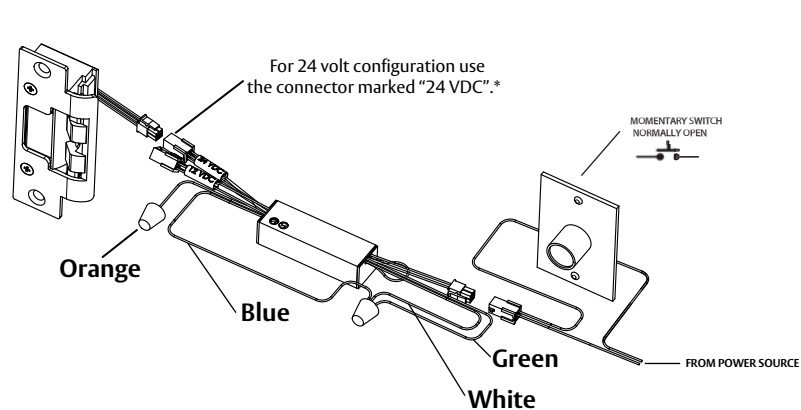
Releasing the button will immediately reset the strike to the secured condition.

Loss of power results in a secured (locked) condition

## 12 VOLT CONFIGURATION



## 24 VOLT CONFIGURATION



\*NOTE: Only one device can be connected per SMART Pac II. See Output Requirements for more info.

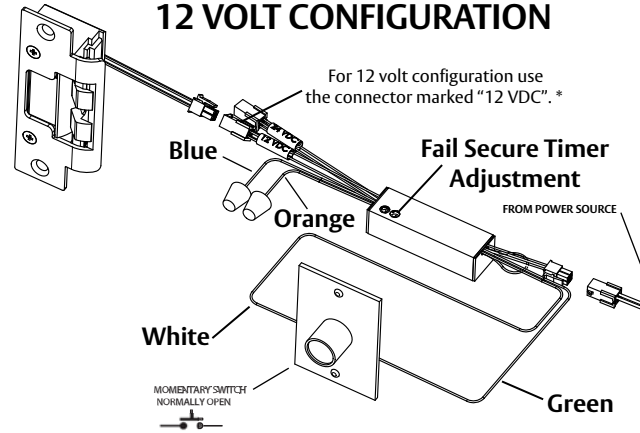
# Fail-Secure/Timed Release

Connecting the SMART Pac II wires as indicated for this configuration will allow the user to release the strike for a selected amount of time, adjustable between 2-8 seconds by using the Fail-Secure Timer Adjustment

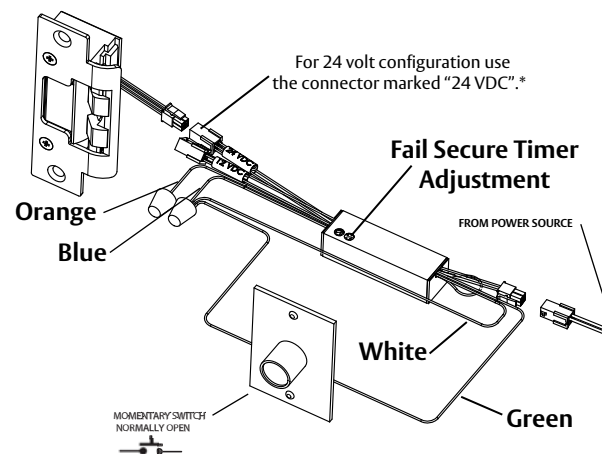
After the timer expires, the strike will automatically reset to the secured condition.

Loss of power results in a secured (locked) condition

## 12 VOLT CONFIGURATION



## 24 VOLT CONFIGURATION



\*NOTE: Only one device can be connected per SMART Pac II. See Output Requirements for more info.

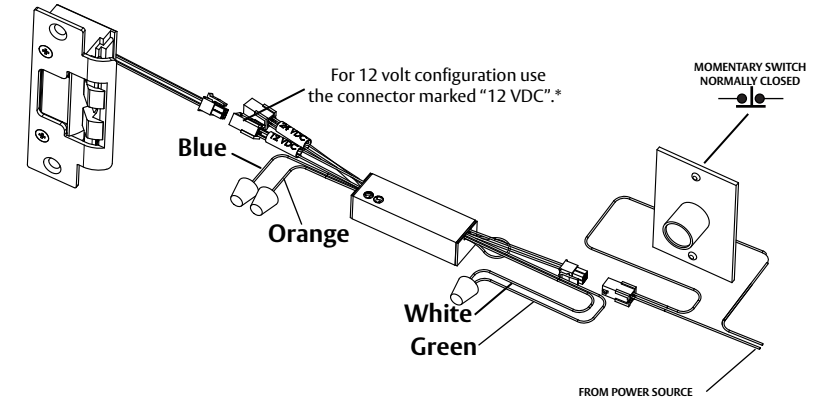
# Fail-Safe/Direct Control

Connecting the SMART Pac II wires as indicated for this configuration will allow the user to release the strike by pressing a button.

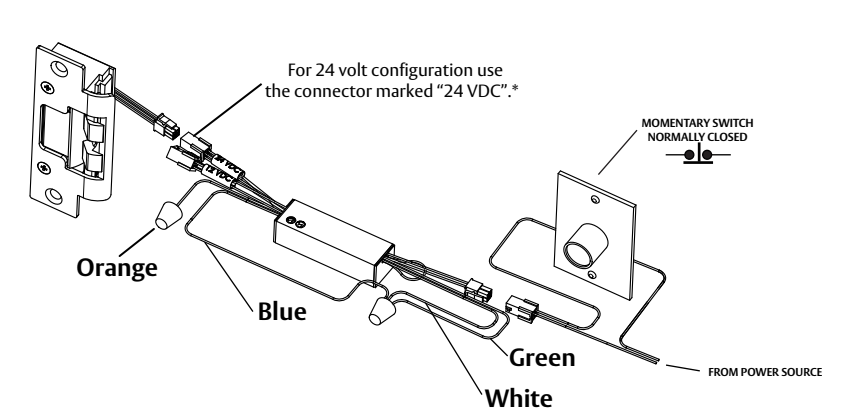
Releasing the button will immediately reset the strike to the secured condition.

Loss of power results in an unsecured (released) condition

## 12 VOLT CONFIGURATION



## 24 VOLT CONFIGURATION



\*NOTE: Only one device can be connected per SMART Pac II. See Output Requirements for more info.