

The HES 8500

RAISING THE STANDARDS IN ACCESS CONTROL

The new HES 8500 is an innovative but simple labor-saving electric strike that will revolutionize easy installation of access control for mortise locksets.

The HES 8500 electric strike has a unique mortise-lockset compatible design that requires no cutting of the frame under normal installation. It works with most popular $\frac{3}{4}$ " throw mortise locksets



Know the Elements for a Successful Install

The strength and performance of an electric strike relies on maximum contact and proper alignment between a lock's latchbolt and the electric strike's keeper. Severe door sag, a wide or narrow door gap, or frames that are poorly aligned and worn or poorly operating latchbolts can all impact the ease of installation and operation of the electric strike. These conditions may also reduce the life of the strike or impair its operation, resulting in service calls.

Some wear-and-tear is normal and expected in retrofit situations. HES electric strikes feature adjustability that help address less-than-ideal door conditions. Assessing the opening before installing any electric strike and correcting extreme problems will ensure great performance. Here are a few easy tips for a successful install.

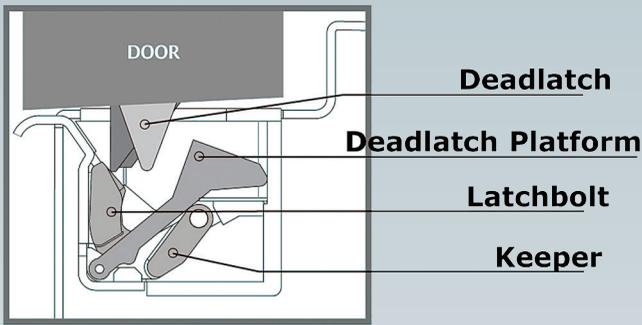
Make sure the frame is reasonably plumb and square. This ensures that the latchbolt falls fully into the keeper pocket and is securely captured.

Ensure proper door gap. A gap that is too wide may prevent the latchbolt from fully engaging the keeper; too narrow and the door may bind.

Correct extreme door sag. Many electric strikes handle moderate door sag. In extreme sag situations, it may be tempting to relocate the strike prep, but this can lead to other issues and still not address binding and preload.

Test the latchbolt. The latchbolt should retract easily when it's lightly depressed at a 45 degree angle to the door face. If force is required or the latchbolt catches, the latchbolt should be maintained or replaced. Check the lock manufacturer's recommendations for proper lubrication and maintenance.

Door users rarely think about all of the components that must work together for access control to operate smoothly. Maintaining good operating conditions on all elements of a door opening will ensure a good experience for your customers.

2

shapes depending on the model and brand of lockset it is designed to handle, (figure 2).

Getting Started

without deadbolts. It features ANSI/BHMA A156.31 Grade 1 strength with a UL10C 3-hour fire rating when used with a single door. The 8500 is ideal for use in 1-1/2" fire rated frames with a 1/2" drywall penetration, (figure 1).

The HES 8500 is non-handed, 12V/24V DC or AC field selectable and fail-secure/fail safe field configurable, so one strike body model covers any situation.

Innovative Design Leads to Labor Savings

Creating a strong, durable electric strike that can handle a mortise lockset without requiring cutting on the face of the frame is no easy task. Fitting the features into a compact 1-5/16 inches depth so it fits in place of the dustbox in a standard ANSI BHMA A156.115 prep is even more of an achievement.

The patent-pending design includes distinctive features that guard the deadlatch and help the latchbolt ramp out of the keeper pocket when the strike is activated. The "deadlatch platform" manages the deadlatch and can be installed in one of three different positions within the strike pocket to support the deadlatch positions of various mortise lock manufactures. The deadlatch platform is available in different

First, identify the lockset and select the correct faceplate option kit. There are four different options that cover the common mortise lock brands. The faceplate option kit contains a standard faceplate, a faceplate that will handle moderate to severe door sag, and the deadlatch platform, (figure 3).

Determine the voltage and operating requirements for the installation. Verifying the input voltage with a multimeter is a good precaution before configuring the electric strike. The HES 8500 has an operating range of



+/- 10% of the solenoid voltage rating.

If you have doubts about the accuracy of the power supply's voltage output or if the electric strike will be operating as fail-safe or continuous duty, an HES SMART Pac III™ is an inexpensive insurance policy that will protect the electric strike and will reduce heat from the solenoid. The SMART Pac III™ has the added benefit of a

free warranty upgrade on the strike, extending the electrical warranty from one year to five years.

Verify operating mode. The HES 8500's default setting is fail secure. For fail-safe mode, loosen the configuration screws on the side of the strike (without removing) and shift them down to the fail-safe position, then remove the fire screw, which is on the middle back of the strike housing.



Installing the HES 8500

1. Evaluate the opening. After ensuring that the opening is plumb and square and in good working order (see side bar), remove the dust box (if applicable), (figure 4), leaving the tabs, (figure 5).

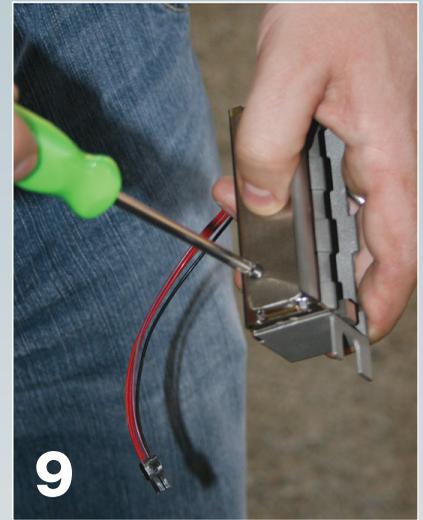
2. Install the deadlatch platform. Insert the deadlatch platform into the keeper slot appropriate for the location of



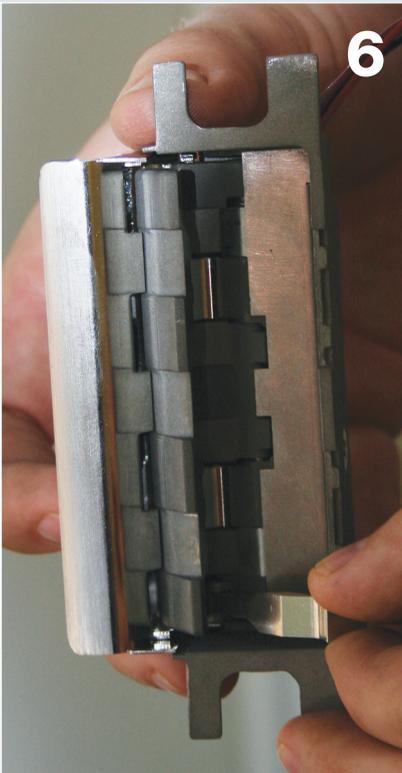
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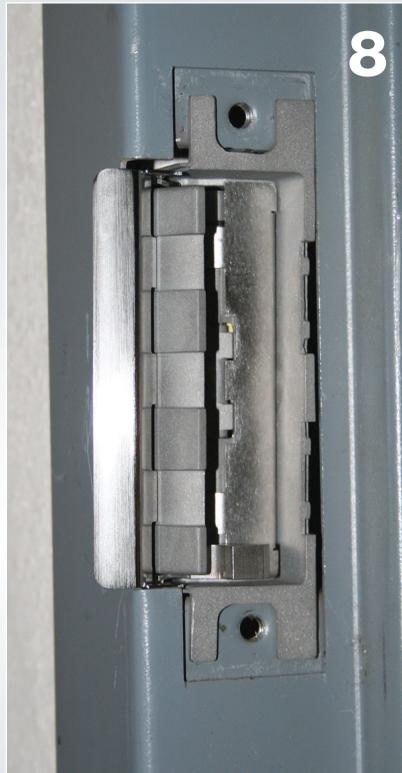
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the deadlatch on the mortise lockset. Align the screw hole in the platform foot with hole in the outer casing and tighten, (figure 6).

3. Connect the correct voltage pigtail to the appropriate electrical wiring based on the voltage source.

4. Connect the HES 8500 to

the voltage pigtail.

5. Insert the HES 8500 strike body into the frame prep, (figures 7 & 8).

6. Install the standard faceplate but only partially tighten the provided screws.

Close the door and verify that the deadlatch is resting on the deadlatch platform and

clears the edge of the faceplate. If the door sag is pronounced, remove the standard faceplate and install the DS faceplate, which provides a wider pocket.

7. Open the door and verify that the HES 8500 is flush with the face of the frame, pulling the strike forward toward the opening if needed. Tighten the faceplate screws.

8. Close the door and test. If there is too much “play” in the door, remove the faceplate and add one or two shims as needed to make contact with the inside face of the frame. If there is pre-load, remove the default shim and retest, (figure 9).

The result is a fast, clean, attractive, and high-quality installation in a fraction of the time normally required to conduct installation for a mortise lockset-handling electric strike.

For more information about the HES 8500, check out the HES website at www.hesinnovations.com, or contact them via email at support@hesinnovations.com.

