4100 ELECTRIC STRIKE INSTALLATION INSTRUCTIONS



TRINE 4100 THE ONE BOX SOLUTION FOR CYLINDRICAL AND MORTISE LOCKS

Congratulations on the purchase of this quality TRINE security product. This product has been designed to install easily, perform reliably, and provide years of trouble free security.

BEFORE PROCEEDING with your installation, please review the following list of features. If you have any questions after reading this document please call TRINE's TECHNICAL SUPPORT (718) 829-2332 EXT. 447, or visit the TRINE Web site at www.trineonline.com

The 4100 is WH recognized for:

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

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

ANSI/BHMA A156.5 - 1992 - 4-7/8" x 1-1/4" Fits Cutout Specification A115.1 (with Slight Jamb Modification) BHMA - Grade 1

EN4100 ELECTRICAL CHARACTERISTICS:

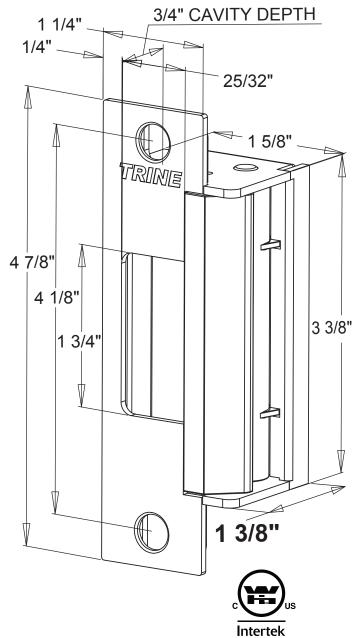
<u>Voltage</u>	<u>Current</u> <u>Draw</u>	Power Consumption	Resistance
12DC	.240 A	2.90 W	50 Ω
24DC	.114 A	2.74 W	210 Ω
12AC	.210 A	2.50 W	50 Ω
16AC	.281 A	4.48 W	50 Ω
24AC	.420 A	10.08 W	50 Ω

When removing the connector and using the wires direct; Red Wire is Common, Blue Wire accepts 12DC & 12-16 AC, Brown Wire accepts 24DC.

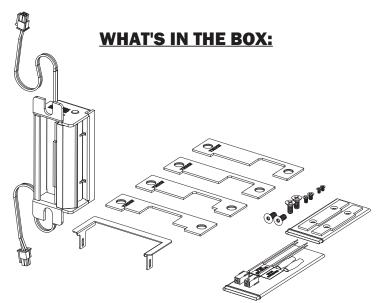
OPERATING TEMP RANGE: -20°C TO +40°C

DO NOT APPLY AN OVER VOLTAGE OF MORE THAN 10% OVER THE RATED OPERATING VOLTAGE OF THE STRIKE OR THE SOLENOID WILL BE DAMAGED

AVAILABLE FINISHES:			
US32D (630) Satin Stainless	US10B (613) Dark Bronze		
US32 (629) Bright Stainless	US10 (612) Satin Bronze		
US3 (605) Bright Brass	US4 (606) Satin Brass		



ACCESS TECHNOLOGY



- 1 (1) 4100 Electric Strike Mechanism
- 2 (4) Faceplates with Openings (CC, MHO, MMO, MLO)
- 3 (2) #12-40 x 1 inch Philips Mounting Screws
- 4 (2) #12-40 x 1 inch Torx[®] Security Mounting Screws
- 5 (2) Quick Connect Socket and Wire Assembly 12VDC & 24VDC Version
- 6 (2) Sealed Crimp Connectors
- 7 (2) Latch Spacer Shims & (2) Mounting Screws
- 8 (1) Frame Trim Skirt & (2) Screws

COMPATIBLE LOCKSETS:

CC: Centered Cylindrical (Reference HES[®] J faceplate) Cylindrical Locksets up to 3/4" throw and all locksets center lined bolts: Corbin Russwin[®] Security Bolt, Weiserbolt[®].

MHO: Mortise High Offset (Reference HES[®] KM faceplate) Accurate[®], Arrow[®], Best[®], Corbin Russwin[®], Falcon[®] (1992M Series), Sargent[®] (7800, 8200 & 9200 Series), Yale[®] (8800).

MMO: Mortise Medium Offset (Reference HES[®] K faceplate) Baldwin[®], Marks[®], PDQ[®].

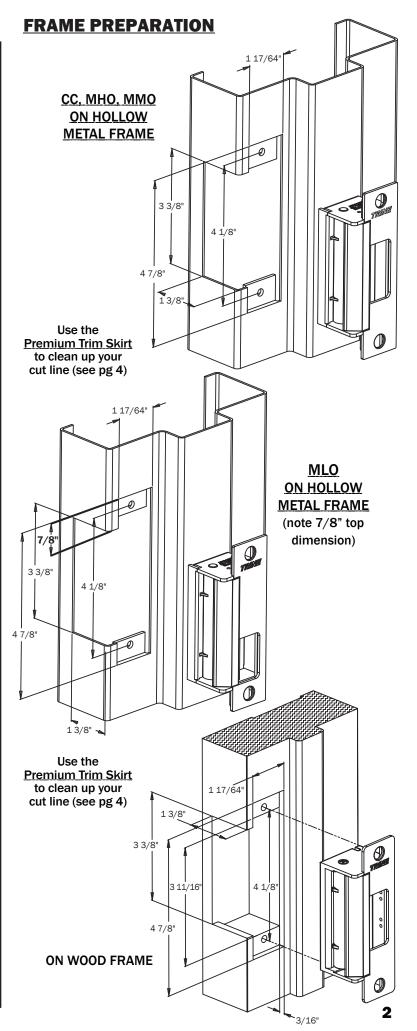
MLO: Mortise Low Offset (Reference HES® KD faceplate) Jackson®, Sargent® (7700 & 8100), Schlage® (L Series), Yale® (8700).

4100 OPTIONS:

4100RS - FAIL SAFE CONFIGURATION
4100LB - LATCH BOLT MONITORING (October 2013)
4100RSLB - FAIL SAFE/LATCH BOLT MONITORING (October, 2013)
BZ-12 - 12VDC Piezo Buzzer
BZ-24 - 24VDC Piezo Buzzer

Additional Faceplates:

- CCRD 4-7/8" x 1-1/4" Centered Cavity with Radiused Corners
- **CRD7** 6-7/8" x 1-1/4" Tall Centered Cavity with Radiused Corners
- **CRD8 -** 7-15/16" x 1-7/16" Tall Centered Cavity with Radiused Corners
- CRD9 9" x 1-1/4" Tall Centered Cavity



RECOMMENDED PRE-INSTALLATION CHECK:

1. Determine that the door swings without interfering with jamb or sill; the door must operate properly in order for the system to provide best results.

2. The door must be equipped with a door closer and the door closer "latch mode" must hold door in a completely closed position in order to avoid the lock latch from applying pressure against the releasing latch portion of the electric strike.

3. Electrical wire connections must be completed and ready to be terminated inside the frame.

4. Confirm that the power line in the frame is the correct voltage and that the switch works properly.

5. Confirm proper clearance exists between the end of the lock latch and jamb.

6. The faceplate **opening** used on the electric door strike must be centered with lock latch centerline when it is installed on the doorjamb.

7. For best installation results, the door frame must be reasonably flat and straight.

INSTALLING THE 4100 STRIKE:

NOTE: The 4100 electric strike has two terminal wires to supply power to two separate solenoids. **USE THE BOTTOM WIRE LEADS ONLY.**

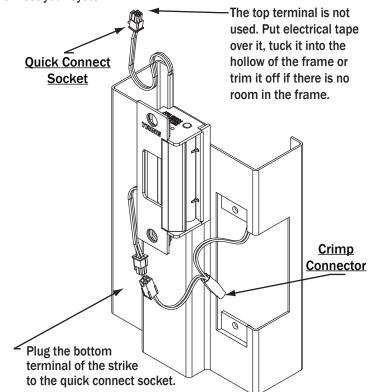
Prepare door frame as shown on page 2 (based on frame type). Pull the switched power wires to the door frame. (Caution:

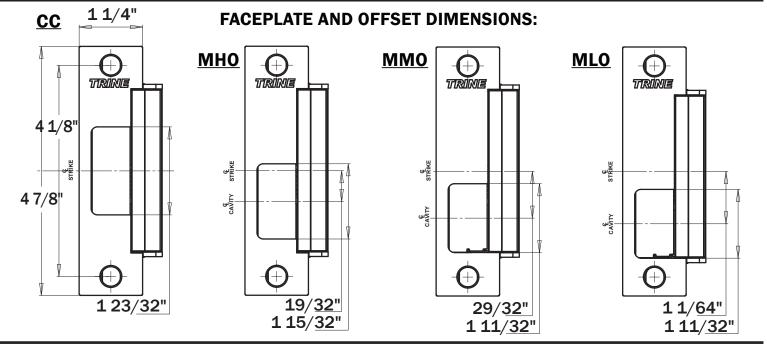
Connect the power ONLY as the last step.)

3. Carefully choose the quick connect socket to match the required voltage. The quick connect sockets are labeled 12VDC (Blue Wire) or 24VDC (White Wire).

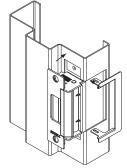
4. Use the crimp connectors to terminate the ends of the quick connect socket to the power wires coming out of the frame.5. Connect the strikes bottom terminal to the quick connect socket.

- 6. Tuck the wires inside the door frame.
- 7. Install the electric strike into the door frame.
- 8. Connect the power supply and turn power on.
- 9. Test your system.





PREMIUM TRIM SKIRT FOR THE 4100



USING THE TRIM SKIRT

The skirt can be used to clean up the cut line of the frame face during installation. The Trim Skirt comes with 2 screws for fastening to the top and bottom of the 4100.

Available in 6 architectual finishes: US32D, US32, US3, US4, US10, US10B to match the finish of the electric strike and faceplates.

<u>CCTS</u>

If retrofitting for the electric strikes listed below, a separate Skirt may be used to cover the gap left in the frame. Note: Specify the finish of the CCTS so it matches the 4100 you have.

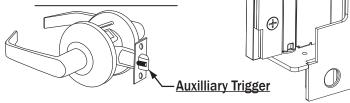
H.E.S.® 1006, Folger Adams® 712/732, Von Duprin® 6200 Series, or Trine EN Series Strikes 3

USING THE LATCH SPACER SHIMS

The latch spacer shims are used to make adjustments to minimize the space between the door's inside face and the door stop or reduce door play. For cylindrical locks aligning to the vertical center of the strike mount the shims as shown below.

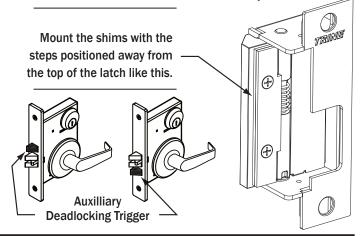
Mount the shims with the steps positioned aligned with the top of the latch like this.

This position will ensure that the cylindrical lock's auxilliary trigger will function properly.



USING THE LATCH SPACER SHIMS (CONTINUED...)

For locks not aligning to the vertical center of the strike, mount the shims as shown below. Most if not all mortise locks will work with the latch shims mounted this way.



TROUBLESHOOTING THE COMPLETED INSTALLATION:

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DO NOT APPLY AN OVER VOLTAGE OF MORE THAN 10% OVER THE RATED OPERATING VOLTAGE OF THE STRIKE OR THE SOLENOID WILL BE DAMAGED

SYMPTOM: Electric release is not actuating:

- 1. Verify proper voltage is present AT THE STRIKE. If voltage is present, the strike may have been affected during the installation, or dirt or debris may be preventing proper operation. Ensure that all moving parts are clean. DO NOT LUBRICATE THE SOLENOID.
- 2. If voltage IS NOT present:
 - · Verify Circuit breaker is on
 - · Verify voltage at the transformer/power supply output.
 - · Verify that there are no additional, external switches or
 - devices which may be interrupting your circuit. · Check for damaged wiring or bad wire splices.

SYMPTOM: Door will not open but strike is working

- · First, check to see if the electric strike works properly while the door is open.
- · Check for proper lock-latch engagement
- · Check for pressure from the door on the electric strike by following these steps:
 - Push the door from the outside, try and relieve the bolt to latch pressure and actuate the 4100. While the 4100 is unlatched swing the door open. If the door opens, then the bolt maybe applying pressure to the latch. Adjust the position of the 4100 to relieve the pressure.

Possible remedies include:

- 1. Re-adjust door closer.
- 2. Remove door silencers.
- Remove, or trim, weather stripping around the door.
- 4. Adjust electric strike position if possible.
- 5. Correct excessive warping of door.

