9200 Series
Electric Strikes

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Installation & Operating Instructions

Product Components

A 9200 Strike Body

B 9200 Cover

C 9200 1/8" Spacer

D 5/16"–18 x 1" Mounting Screws

E #12 Self Drilling Lockdown Screws

F #6-32 x 1/4" Cover Screws

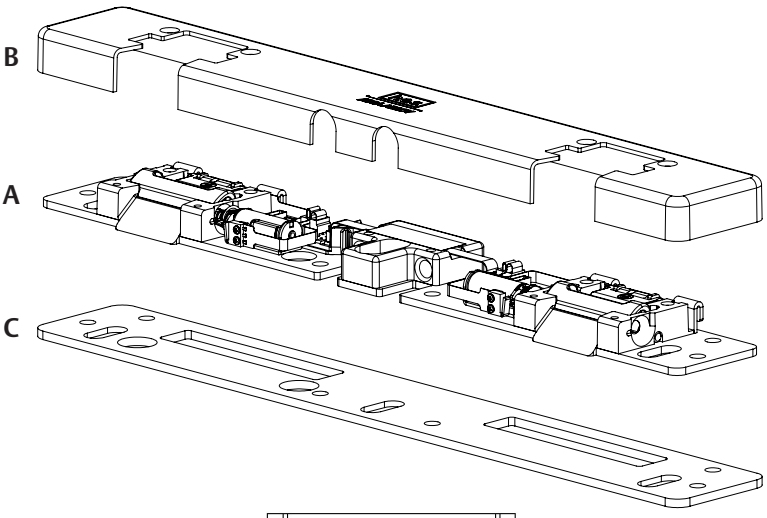
G Door Stop/Rubber Bumper Kit

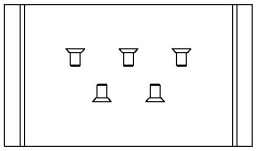
H Blind Nut

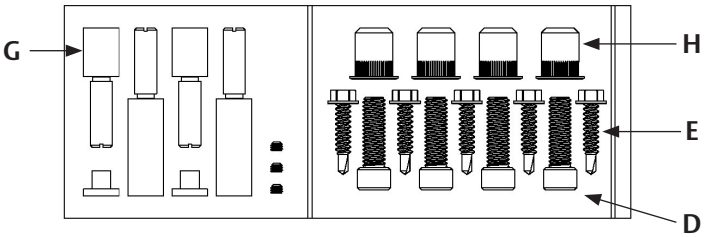
I Power Pigtail

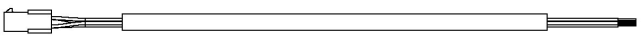
J LM/LMS Pigtail (included with LM and LMS only)

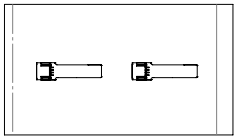
K LMS In-Line Adapter











Specifications

Recommended Wire Gage For Distance				
Voltage	Current	200 Feet or Less	200–300 Feet	300–400 Feet
12 VDC	480 mA	18	16	16
16 VDC	640 mA	16	14	14
24 VDC	240 mA	22	22	20

UL1034

- Static Strength: 1500 lbs
- Dynamic Strength: 70 ft–lbs
- Endurance: 250,000 cycles
- Outdoor Use

UL294 Performance Levels

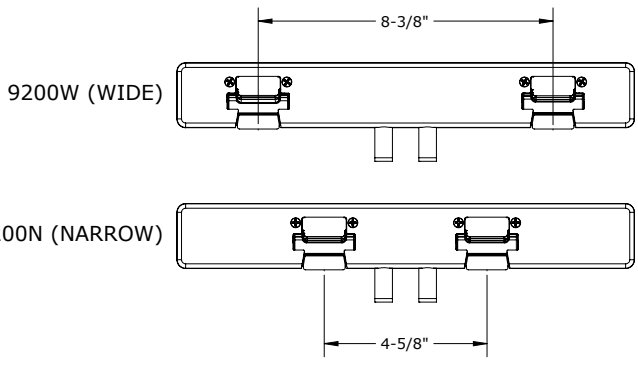
- Destructive Attack: Level I
- Line Security: Level I
- Endurance: Level IV
- Standby Power: Level I
- Outdoor Use
- CAN/ULC 60839-11-1
- Listed for use with Grade 1 and Grade 2 Access Control
- Humidity: 93 %
- Temperature: -40° to 66° C

ANSI BHMA A156.31*

- Grade 1
- Function #: E09361

NOTE Installation wiring for the product and wiring methods shall be in accordance ANSI/NFPA70 National Electrical Code, Canadian Electrical Code, part 1 and Local Authority Having Jurisdiction (AHJ). For ULC60839-11-11 and UL294 complaint systems, DC power shall be provided through a UL/cUL listed access control, or burglar alarm power supply with class 2 limited output.

Diagram 1



Preparing the Strike

Factory Configuration

The HES 9200 Electric Strike is pre-configured from the factory for FAIL SECURE operation as shown. To SWITCH from fail-secure to fail safe for either configuration, loosen screws and move solenoid closer to the keeper pocket and secure. **Diagram 1a**

The HES 9200 Electric Strike can be converted for FAIL SAFE operation as shown. **Diagram 1b**

SELECT correct Door Stop length for application. Long stop for use with full glass doors without a rail. Short for use with solid door or glass door with rail. INSTALL Door Stops with Rubber Bumper. **(part G, page 1)**

Product must be installed according to all applicable building and life safety codes.

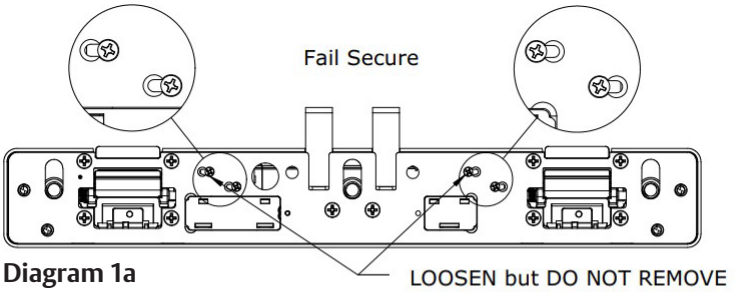


Diagram 1a

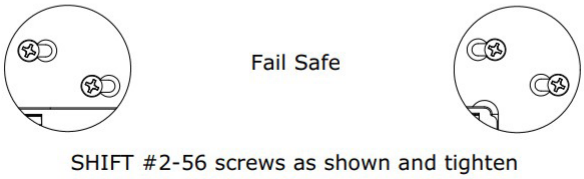


Diagram 1b

Preparing the Frame

Pre-Installation Survey

1 PERFORM an initial on-site survey to determine the mounting method and review the installation plan. **Diagram 2** Take the following into consideration:

- Physical strength of mounting areas should be strong enough to meet or exceed the holding force of the existing strike.
- Placement of the strike wiring and protection from potential damage due to intruders or vandal's external attack.

2 MEASURE height of existing strike. Use included shim if height is 3/4". Do not use shim if height is 5/8". **Diagram 3**

3 MARK the front edge of the existing strike for proper alignment of the new strike. **Diagram 3**

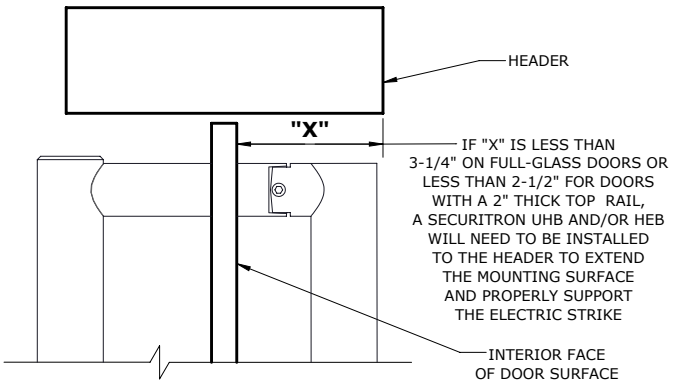


Diagram 2

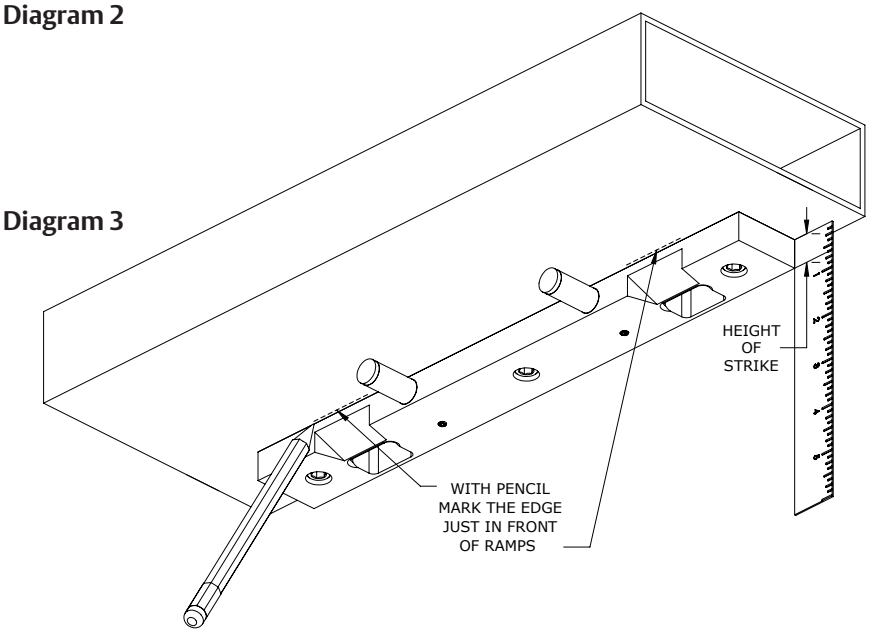


Diagram 3

Preparing the Frame (CONTINUED)

If replacing an existing manual strike the HES 9200 should mount directly to the header using the existing strike mounting holes. Only wire holes will need to be drilled. If it is a new install, use the following steps:

1 MARK centerline of latchbolts to header.

2 PUNCH, DRILL the marked mounting holes as required. **Diagram 4**

3 PUNCH, DRILL the marked wire access holes as required. **Diagram 4**

4 INSTALL mounting Blind Nuts (if needed). INCREASE hole size to "17/32" if using blind nuts. **Diagram 4**

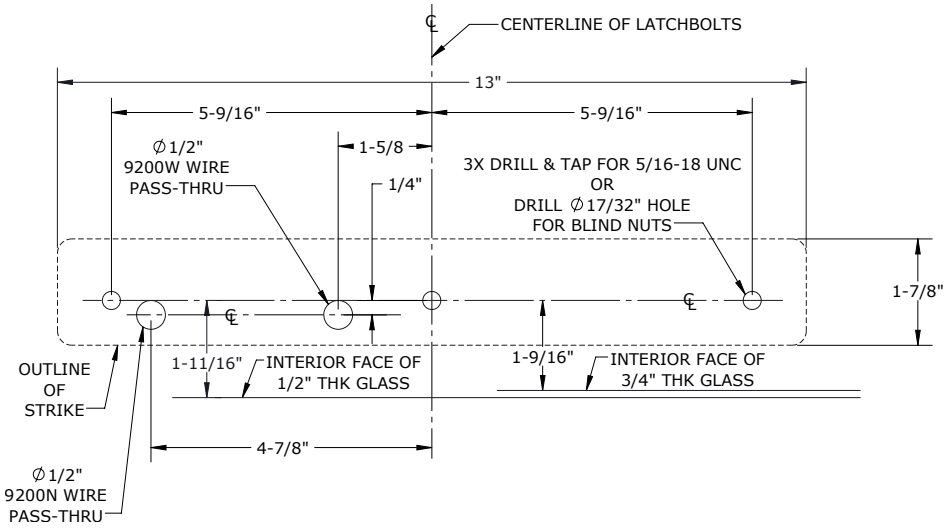


Diagram 4

Finishing the Installation

1 Connect power pigtail and LM/LMS pigtail (if equipped) wires to existing wiring coming out of the frame. **Diagram 5**

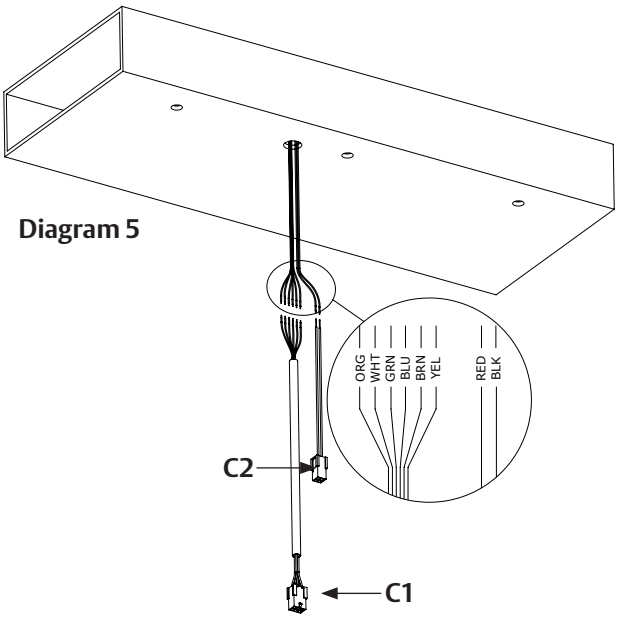


Diagram 5

Connector Pin-Outs	
C1 — Latchbolt Monitor	
WHT	Common
ORG	Normally Closed
GRN	Normally Open
C1 — Latchbolt and Strike Monitor	
BRN	Common
BLU	Normally Closed
YEL	Normally Open
C2 — 12/24 V Power	
BLK	12/24 V–
RED	12/24 V+

If using the C1 — Latchbolt Monitor (LM) or C1 — Latchbolt and Strike Monitor (LMS), use the LM/LMS 6-pin Plug In Connector (pigtail) and REFER to chart to complete wiring.

NOTE: For double doors the LM/LMS states will only show secure when BOTH doors (LM) and electric strike (LMS) are secure. See Chart below.

"Secure" means latch is detected & secured within strike pocket for LM and the strke is also in a locked state for LMS.

NOTE: Monitor options were not evaluated by UL294/UL1034/ULC60839-11-1.

LM Input		LM Output	Wire Condition	
Door 1	Door 2	LM State	Open	Closed
Unsecure	Unsecure	Unsecure	GRN & WHT	ORG & WHT
Secure	Unsecure	Unsecure	GRN & WHT	ORG & WHT
Unsecure	Secure	Unsecure	GRN & WHT	ORG & WHT
Secure	Secure	Secure	ORG & WHT	GRN & WHT

LMS Fail Secure				
LMS Input		**LMS Output**	**Wire Condition**	
Solenoid 1	Solenoid 2	LMS State	Open	Closed
Retracted	Retracted	Unsecure	YEL & BRN	BLU & BRN
Extended	Retracted	Unsecure	YEL & BRN	BLU & BRN
Retracted	Extended	Unsecure	YEL & BRN	BLU & BRN
Extended	Extended	Secure	BLU & BRN	YEL & BRN

LMS Fail Safe*				
LMS Input		**LMS Output**	**Wire Condition**	
Solenoid 1	Solenoid 2	LMS State	Open	Closed
Retracted	Retracted	Secure	BLU & BRN	YEL & BRN
Extended	Retracted	Unsecure	YEL & BRN	BLU & BRN
Retracted	Extended	Unsecure	YEL & BRN	BLU & BRN
Extended	Extended	Unsecure	YEL & BRN	BLU & BRN

* Adapter (K) must be used in this configuration.

Finishing the Installation

1 ELECTRICALLY CONNECT the 9200 (9200W Shown) to the pigtails, and ATTACH the electric strike to the header using the 5/16"-18 x 1" mounting screws provided. **Diagram 6**

2 ALIGN front edge of latchbolt ramps with marked line from **Diagram 3**.

3 CHECK the latchbolt interaction with the keepers to ensure proper engagement and clearance. If front and back, MACRO adjustment is needed, ADJUST the strike and RETIGHTEN the three 5/16"-18 x 1" mounting screws.

4 Check door play and adjust Door Stops as needed for MICRO adjustment using a slotted driver on the back of the strike. **Diagram 7**

5 ADJUST the latchbolt depth into the keeper pocket per the exit device manufacturer's instructions. Ensure the latchbolt clears the keeper pocket when the exit device bar is manually depressed.

6 TEST the mechanical and electrical operation to confirm the ability to release, capture and detect the door.

7 LOCKDOWN Door Stop with included 8-32 set screws. (5/64 Allen Wrench) **Diagram 8**

8 LOCKDOWN the front and back adjustment using the #12 self threading screws illustrated. **Diagram 9**

9 INSTALL the cover, and SECURE in place using the #6-32 x 1/4" Cover Screws. **Diagram 10**

CAUTION Take care to not damage any of the flex cables or printed circuit boards and remove all metal debris before installing the cover.

10 Finished Installation. **Diagram 11**

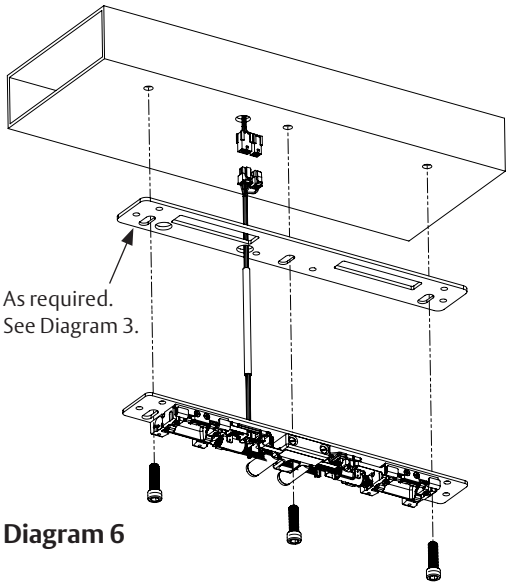


Diagram 6

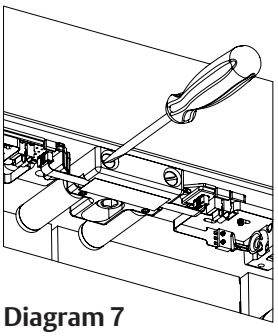


Diagram 7

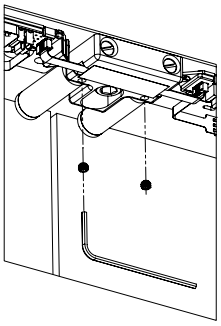
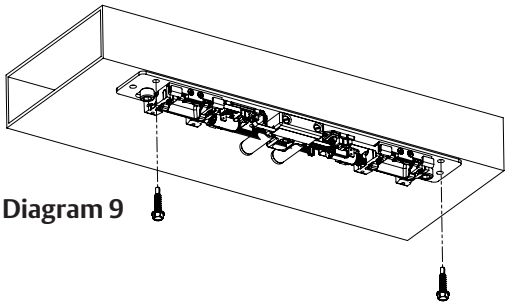


Diagram 8



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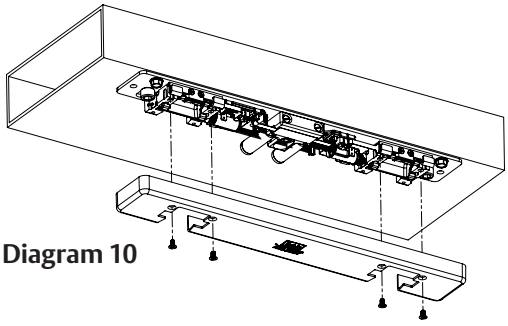

Diagram 10

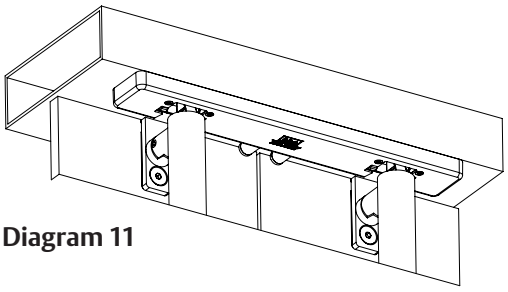

Diagram 11

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