

# DR100 Aperio® Wireless Card Reader with Relay

**SECURITRON**  
**ASSA ABLOY**

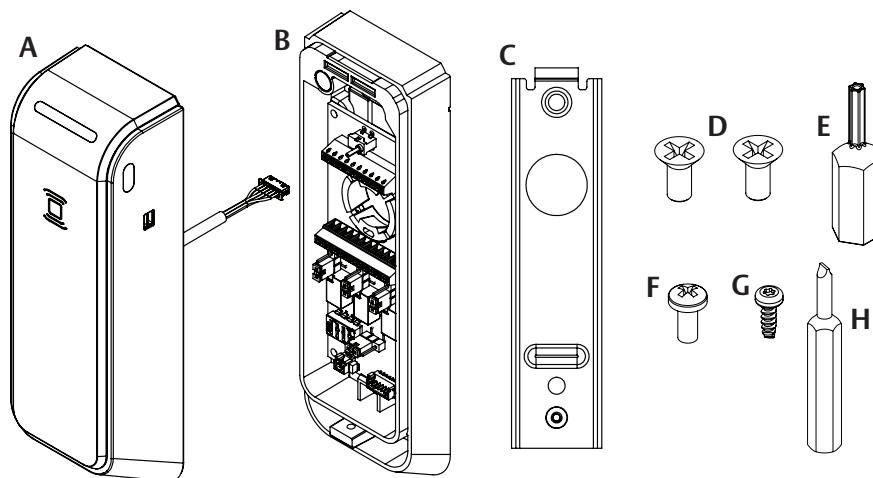
## Installation & Operating Instructions

Experience a safer  
and more open world

### Product Components Standard Installation

- A Reader
- B Relay Housing
- C Mounting Bracket
- D (2X) 6-32 x 1/2" Type F Self Tapping Screws
- E T8 Security Torx Bit
- F 4-40 Pan Head Screw
- G 4-40 Security Torx Screw
- H 4 mm Slotted Bit

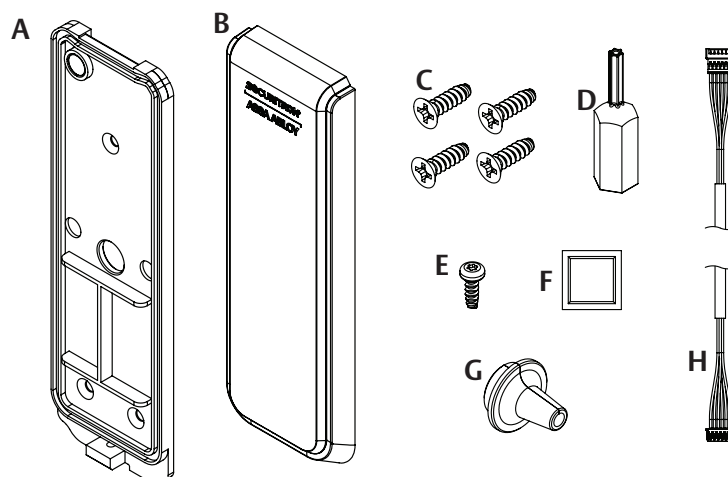
Diagram 1 Product Components Standard



### Product Components Secure Installation Kit

- A Reader Backplate
- B Secure Side Relay Cover
- C (4X) 4-20 Self Tapping screw
- D T8 Security Torx Bit
- E 4-40 Security Torx Screw
- F Alcohol Swab
- G Wire Sealing Grommet
- H Wire Harness Extender

Diagram 2 Product Components Secure Kit



### Product Specs

Parameter	Values
Power Supply	12–24 VDC
Operating Temperature	-14° to 151°F [-10° to 66° C]
Cold Weather Pack Operating Temperature*	-40° to 151°F [-40° to 66° C]
Storage Temperature	-40° to 185°F [-40° to 85° C]
Max Operating Relative Humidity	93 % RH at 89° F
IP Class	IP65
Network	IEEE 802.15.4 (e.g. Aperio) 2.4 GHz
BLE	Bluetooth 4.0
Max Operating Current Draw	57.4 mA
Max Current Draw with Heater Activated*	125 mA at 12 V   245 mA at 24 V

Inputs	
2 DPS, Digital input**	Close / Open Externally Accessible
1 REX, Digital input	
1 DX (Deadbolt Switch)	
1 Privacy	
Outputs	
# of Relays	3
Relay Switching Capacity, Max	2A per Relay***
1 Tamper	Relay Housing Side
2 Tamper	Reader Side

\*Requires extreme cold temperature hardware pack (P/N HSA-CWK).

\*\* 2 DPS can be used with device however only one DPS signal will be sent to EAC.

\*\*\*6A max operating current draw total for product when all relays are in the wetted configuration and fully loaded.

# Product Components

## Hard Power & Cold Weather Kits

### HSA-HPK

(Hard Power Kit)

- A Power Adapter
- B Jumper  
(not used in DR100)
- C Battery Contact\*  
\*Included Battery Contact required for DR100 only

### HSA-HE

(Heating Element)

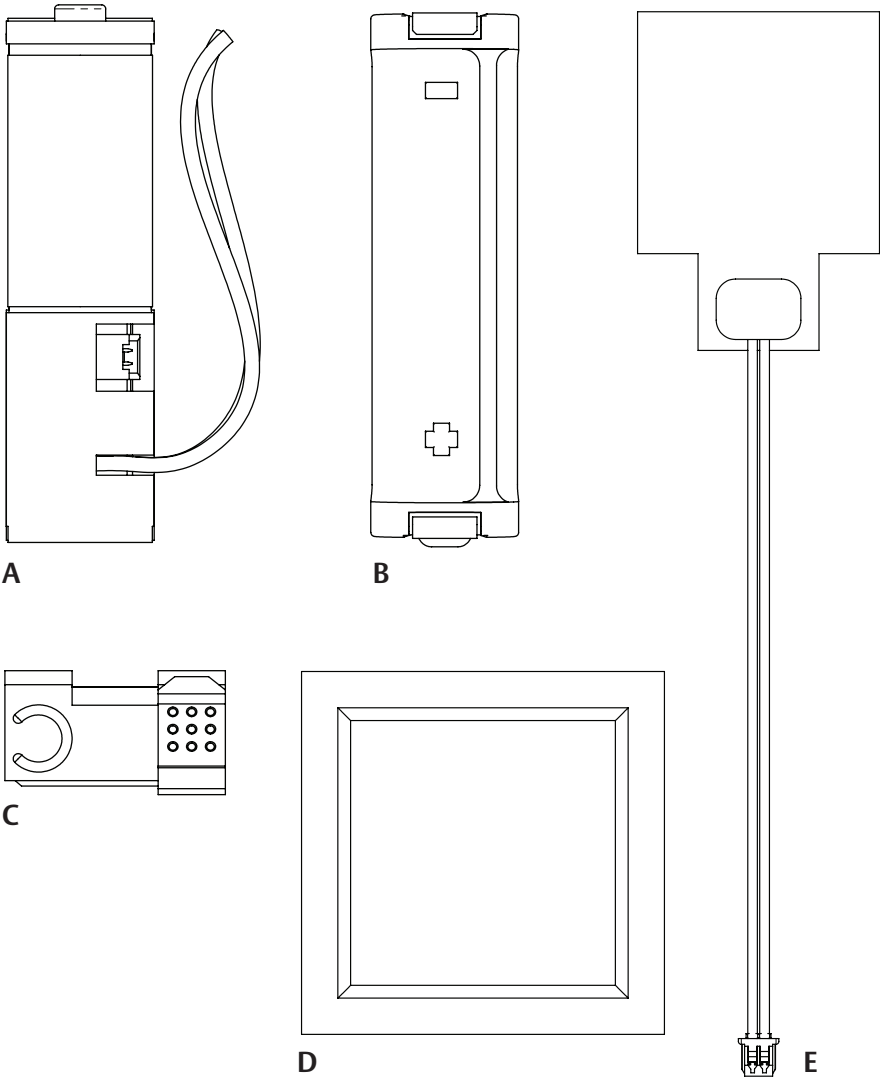
- D Alcohol Swab
- E Heating Element

### HSA-CWK

(Cold Weather Kit)

- A Power Adapter
- B Jumper  
(not used in DR100)
- C Battery Contact\*  
\*Included Battery Contact required for DR100 only
- D Alcohol Swab
- E Heating Element

Diagram 3 Product Components *Hard Power & Cold Weather Kit*




## Product Specs

Parameter	Values
Voltage Input	12 – 24 VDC
Voltage Adapter Output	3.3 VDC
Voltage Heating Element Output	Matches input voltage
Max Operating Current Draw	Varies by product, see product specifications
Max Operating Current Draw — with Heater	125 mA at 12 VDC   245 mA at 24 VDC
Storage Temperature	-40° to 185° F (-40° to 85° C)
Max Operating Relative Humidity	93 % RH at 89°F
Operating Temperature w/HSA-HE/CWK Installed	-40° to 151° F [-40° to 85° C]
Operating Temperature w/HPK only	Varies by product, see product specifications
Minimum Firmware Version Required*	Aperio 3.14 and Latest Aperio Programming Application Version
Max Power Wire Distance	250ft @ 18AWG 1 A Power Supply

\*To get the latest Aperio Programming Application Version go to: [www.IntelligentOpenings.com](http://www.IntelligentOpenings.com)

# Mounting the Relay Housing

- 1 DRILL 1/2" hole in location shown for wires to pass through, **Diagram 4A**.
  - 2 USE Mounting bracket as template to drill 2 x 1/8" holes as shown for a 6-32 self tapping screw. Ensure Mounting Bracket is level and aligned to the 1/2" hole before drilling 1/8" holes, **Diagram 4B**.
  - 3 INSTALL mounting bracket using 2x 6-32 self tapping screws, **Diagram 4C**.
  - 4 WIRE input/output wires into Relay Secure Board (details in next section).
- 

Do not proceed with Relay Housing mounting until wiring is complete.
- 5 HOOK Relay Housing onto mounting bracket and rotate until Relay Housing is fully seated onto bracket and Relay Housing Gasket is fully seated against mounting surface. Downward pressure may be needed in order to compress gasket and fully seat Relay Housing to Bracket, **Diagram 4B**.
  - 6 INSTALL provided 4-40 Pan Head Screw to secure Relay Housing to bracket, **Diagram 4C**.

Diagram 4 Mounting the Bracket and Relay Housing

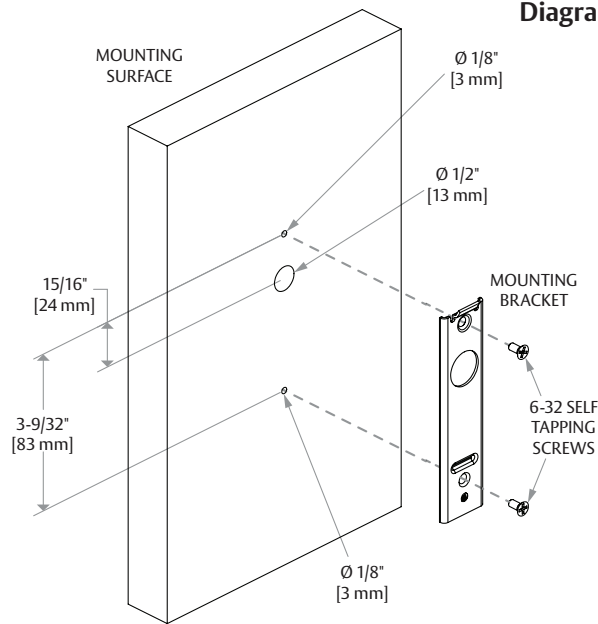


Diagram 4A Drill Holes

Diagram 4B Install Housing

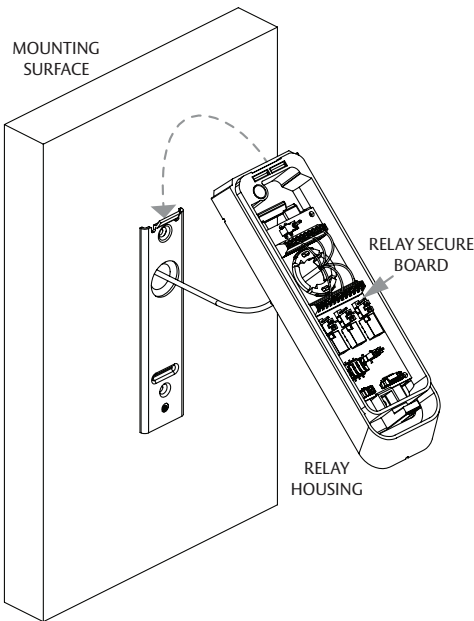
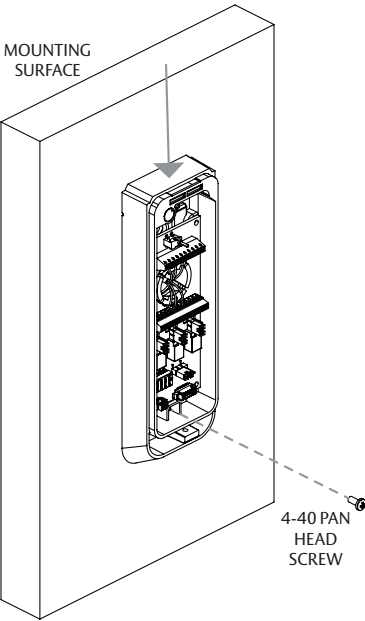


Diagram 4C Secure Housing



# Wiring the DR100 – I/O's

J1\*

Terminal#	Name	Type	Voltage Level
1	V EXT	Input	12 – 24 VDC
2	RELAY COM 1	Output	12 – 24 VAC/VDC**
3	RELAY NO 1	Output	12 – 24 VAC/VDC**
4	RELAY NC 1	Output	12 – 24 VAC/VDC**
5	RELAY COM 2	Output	12 – 24 VAC/VDC**
6	RELAY NO 2	Output	12 – 24 VAC/VDC**
7	RELAY NC 2	Output	12 – 24 VAC/VDC**
8	RELAY COM 3	Output	12 – 24 VAC/VDC**
9	RELAY NO 3	Output	12 – 24 VAC/VDC**
10	RELAY NC 3	Output	12 – 24 VAC/VDC**
11	GND	Input	Power Ground / Return
12	GND	Input	Power Ground / Return

J2\*

Terminal#	Name	Type
1	PRIVACY NO	Input
2	PRIVACY COM	Input
3	DX NO	Input
4	DX COM	Input
5	REX NO	Input
6	REX COM	Input
7	DPS 2 NO	Input
8	DPS 2 COM	Input
9	DPS 1 NO	Input
10	DPS 1 COM	Input

\*Terminal blocks accept 18 – 30 AWG wire.  
\*\*12–24 VAC is only applicable when relays are set to the dry configuration.

# Wiring the DR100 – Terminal Blocks

## J1 Output/Power Terminals

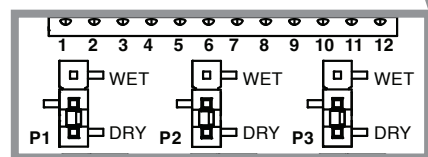
- 1 12-24 VDC
- 2 Relay COM 1
- 3 Relay NO 1
- 4 Relay NC 1
- 5 Relay COM 2
- 6 Relay NO 2
- 7 Relay NC 2
- 8 Relay COM 3
- 9 Relay NO 3
- 10 Relay NC 3
- 11 GND
- 12 GND

Make wire connections at the appropriate wire terminal with Relay Secure Board seated in housing. Removal of the Relay Secure Board from housing is not recommended.

## Wet/Dry Jumper Settings

Wet/Dry jumper settings can be configured to set each individual relay to be a wet or dry contact.

- When set as a WET CONTACT, the relay will provide direct power to the device connected to the relay from the power source connected to the Relay Secure Board.
- When set as a DRY CONTACT, the relay will not provide direct power to the device. Use this setting if the device is powered externally.
- The voltage supplied to an external device through a wetted relay will be equivalent to the voltage supplied to the relay board.

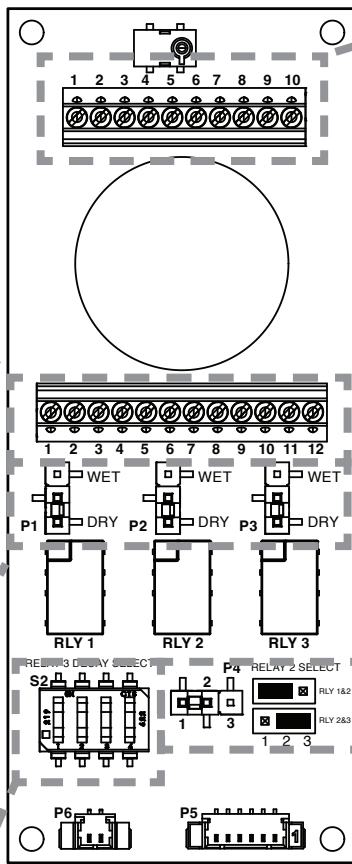


Relay 1  
WET/DRY  
Jumper

Relay 2  
WET/DRY  
Jumper

Relay 3  
WET/DRY  
Jumper

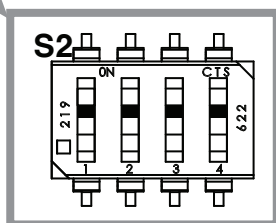
Diagram 5



## Delay Settings

The Delay setting is used to delay the actuation between RELAY 1 and 3.

- The Delay will only apply to RELAY 3 if the RELAY 2 Select jumper is in the left position. The delay will apply to both RELAY 2 and 3 if the RELAY 2 Select jumper is in the right position.
- The delay time is configurable via the dip switch settings on the Relay Secure Board.



Dip Switches

## Relay 2 Select Jumper Delay Timing

	Delay only applies to RELAY 3 (factory default)
	Delay applies to both RELAY 2 and RELAY 3

## J2 Input Terminals

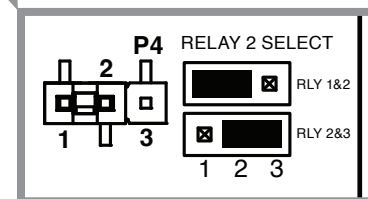
- 1 Privacy NO
- 2 Privacy COM
- 3 DX NO
- 4 DX COM
- 5 REX NO
- 6 REX COM
- 7 DPS 2 NO\*\*
- 8 DPS 2 COM\*\*
- 9 DPS 1 NO\*\*
- 10 DPS 1 COM\*\*

**\*\*NOTE:** Both DPS 1 and DPS 2 need to be closed in order for the EAC to see a DPS secure signal. The unit comes with a jumper pre-installed to close DPS 1. If using only one DPS, install into DPS 2. If using two DPS, remove the jumper in DPS 1 and install each DPS individually to DPS 1 and DPS 2. Wireless communication of DPS 1 and DPS 2 have not been evaluated to UL294.

## Relay 2 Jumper Settings

The Relay 2 will always actuate simultaneously with either Relay 1 or Relay 3.

- To configure RELAY 2 to actuate simultaneously with RELAY 1 move the jumper to left position so it is covering pins 1 and 2 (default configuration).
- To configure RELAY 2 to actuate simultaneously with RELAY 3 move the jumper to right position so it is covering pins 2 and 3.

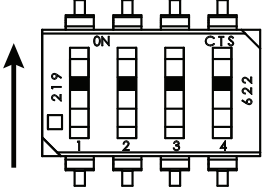
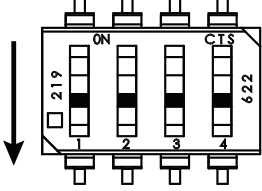


Relay 2 Select Jumper

## Relay 2 Select Jumper Timing

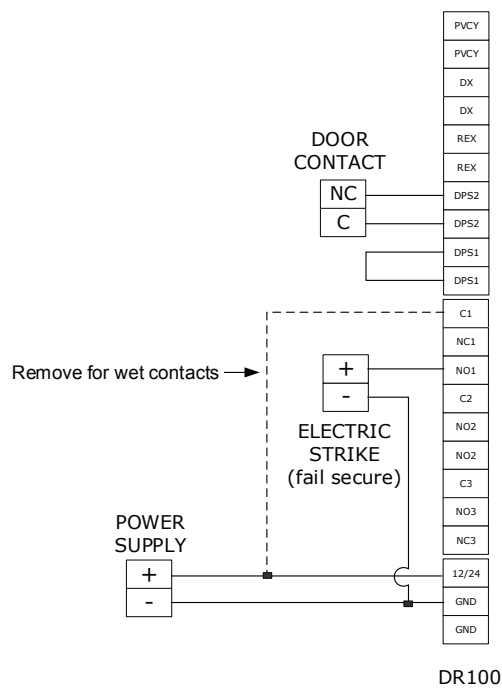
	Relay 1 and 2 actuate simultaneously
	Relay 2 and 3 actuate simultaneously

# Wiring the DR100 – Delay Dip Switch Settings

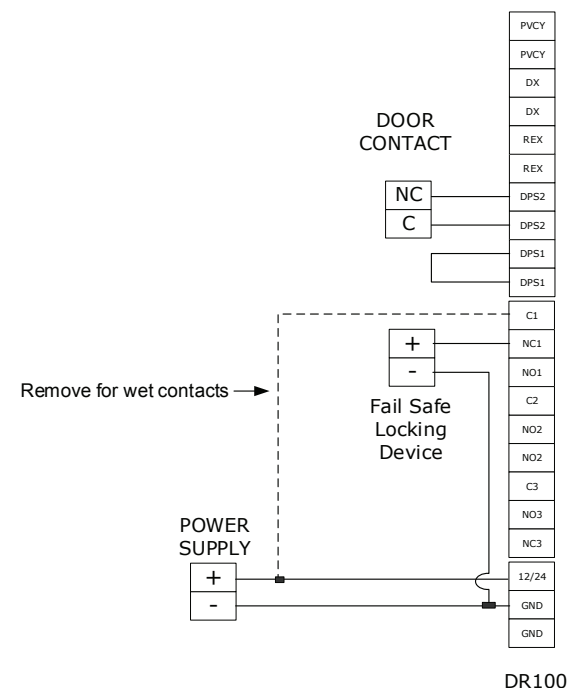
DR100 DIP-SWITCHES#	POSITION				SELECTION	FUNCTION DESCRIPTION	FACTORY DEFAULT
ON Position	SW1	SW2	SW3	SW4	DELAY (S)	Activates a time delay between the actuation of RELAY 1 and RELAY 3.  RELAY 2 will also see the delay if the RELAY 2 Select Jumper is configured such that RELAY 2 actuates simultaneously with RELAY 3.	0 Seconds
	ON	ON	ON	ON	0		
	OFF	ON	ON	ON	0.5		
	ON	OFF	ON	ON	1		
	OFF	OFF	ON	ON	1.5		
	ON	ON	OFF	ON	2		
	OFF	ON	OFF	ON	2.5		
	ON	OFF	OFF	ON	3		
OFF Position	SW1	SW2	SW3	SW4	DELAY (S)		
	OFF	OFF	OFF	ON	3.5		
	ON	ON	ON	OFF	4		
	OFF	ON	ON	OFF	4.5		
	ON	OFF	ON	OFF	5		
	OFF	OFF	ON	OFF	5.5		
	ON	ON	OFF	OFF	10		
	OFF	ON	OFF	OFF	15		
	ON	OFF	OFF	OFF	20		
	OFF	OFF	OFF	OFF	30		

## Common Modes of Operation

**Diagram 6** Typical door system with FAIL-SECURE electric lock.

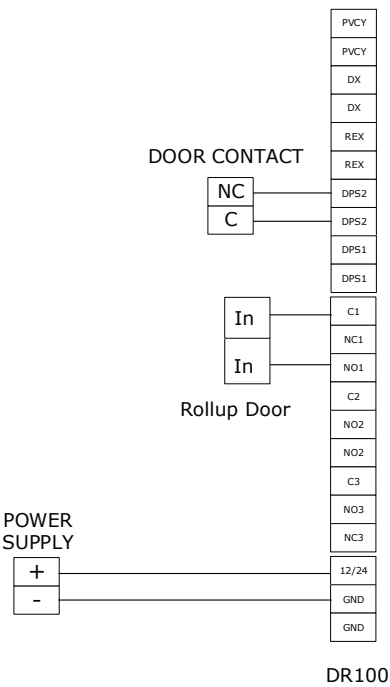


**Diagram 7** Typical door system with FAIL-SAFE electric lock.



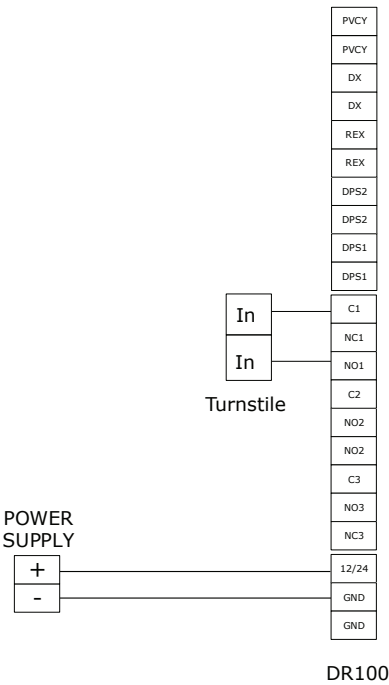
# Common Modes of Operation *(continued)*

**Diagram 8** Typical door system with electronically activated rollup door.

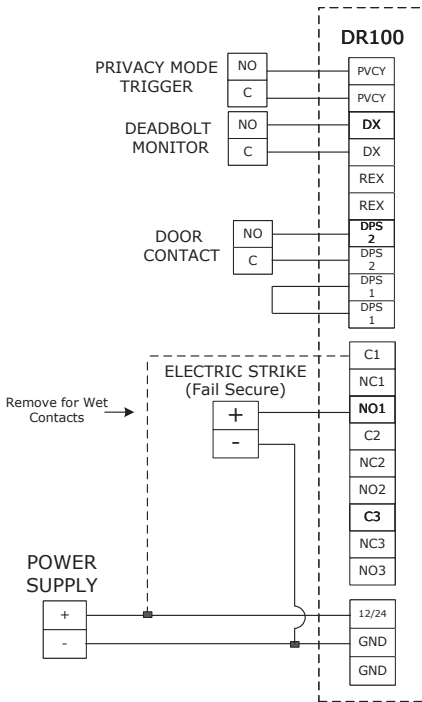


**NOTE:** Not to be used in Life Safety scenarios

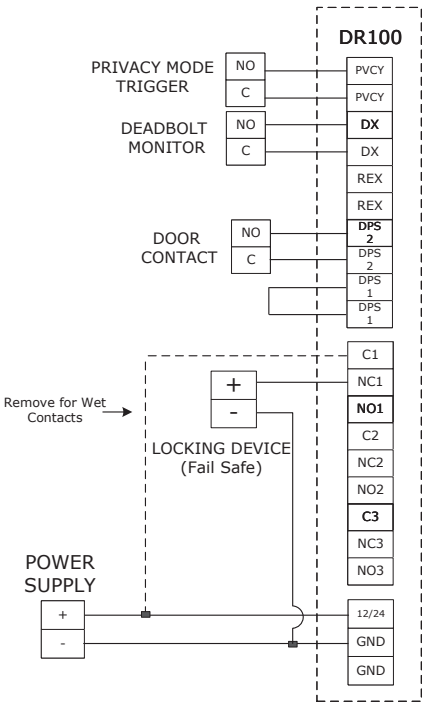
**Diagram 9** Typical door system with electronically activated turnstile.



**Diagram 10** Privacy Function is only available with the use of an AH30 or AH40 Hub.



**Diagram 11** Privacy Function is only available with the use of an AH30 or AH40 Hub.



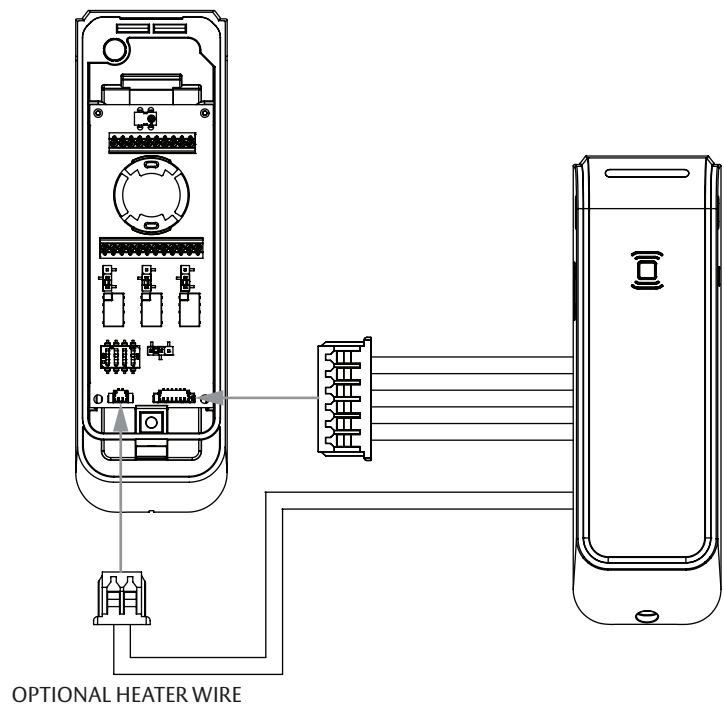
# Standard Configuration Reader Installation

- 1 CONNECT Reader Wire Harness from the Reader to the Relay Secure Board as shown. If using the optional heater, connect this wire as well, **Diagram 12**.

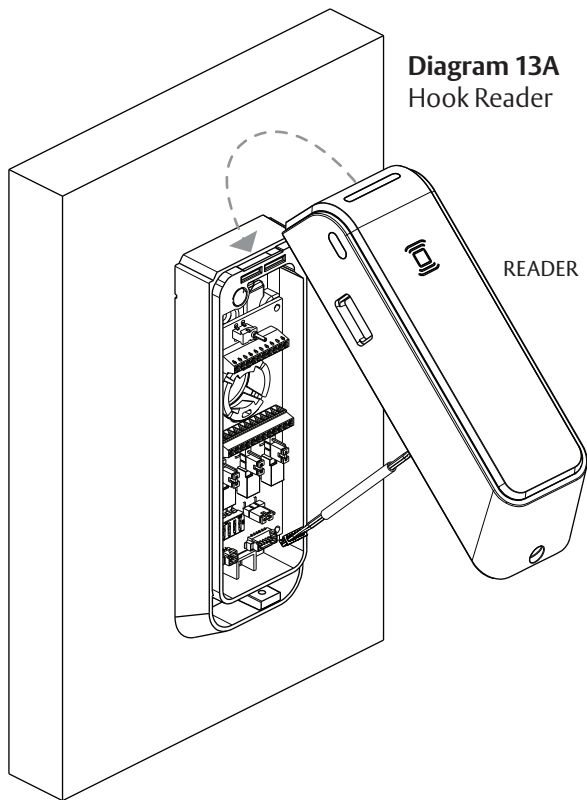
**NOTE:** The Heater allows the device to function below -14° F. The heater will come pre-installed on the Reader if the DR100E model is ordered. If the Heater was purchased separately, please refer to the Heater installation instructions provided in the Cold Weather Pack.

- 2 HOOK Reader onto the top of the Relay Housing and rotate closed, **Diagram 13A**.
- 3 INSTALL 4-40 Security Torx Screw to secure reader to Relay Housing using provided T8 Security Torx Bit, **Diagram 13B**.
- 4 VERIFY proper installation/wiring and ensure that all connected devices are operating as intended.  
Note: All steps must be complete for device to exit tamper state and for device to function properly.

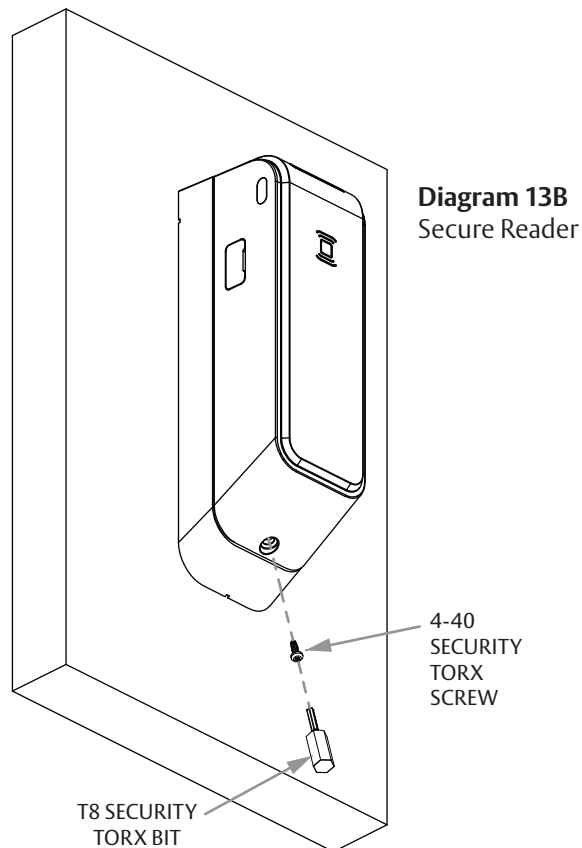
**Diagram 12** Connect Reader



**Diagram 13** Install and Secure Reader to Relay Housing



**Diagram 13A**  
Hook Reader



**Diagram 13B**  
Secure Reader

# Secure Installation Kit Installation

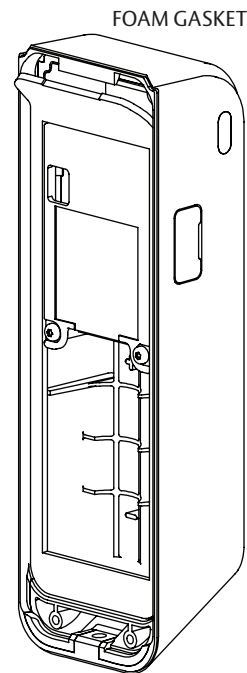
Although the DR100 has several mechanisms to detect tamper situations when mounted in the standard configuration, there may be a desire to mount the Relay Housing in a secure area apart from the Reader. The secure side installation kit provides the hardware needed to mount the Relay Housing on the secure side of the opening and mount the Reader on the opposite side.

**NOTE:** The DR100 is designed to remain securely affixed to a smooth mounting surface using only the mounting tape installed on the Reader Backplate. Additional optional fasteners are provided if the mounting surface is rough. The optional Wire Sealing Grommet is also provided to prevent moisture intrusion when mounting on an rough surface.

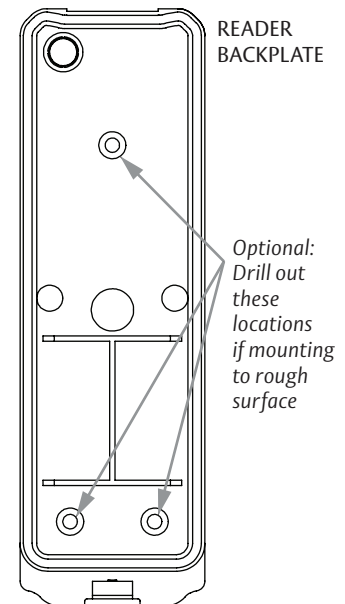
- 1 REMOVE foam gasket on back of Reader, by peeling gasket back towards the top of the reader and slowing peeling off, **Diagram 14A**.
  - *Optional* – DRILL 3 x 1/8" DIA. holes in the Reader Backplate as indicated (deburr the holes after drilling), **Diagram 14B**.
- 2 INSERT reader cable thru exit hole on Reader Backplate, **Diagram 14C**.
  - *Optional* – WRAP Wire Sealing Grommet on Reader wire harness by opening slit in grommet and pressing onto the Reader wire harness.
- 3 CONNECT Wire Harness Extender to Reader wire harness.

**NOTE:** Only use provided Wire Harness Extender. No other extender should be used.

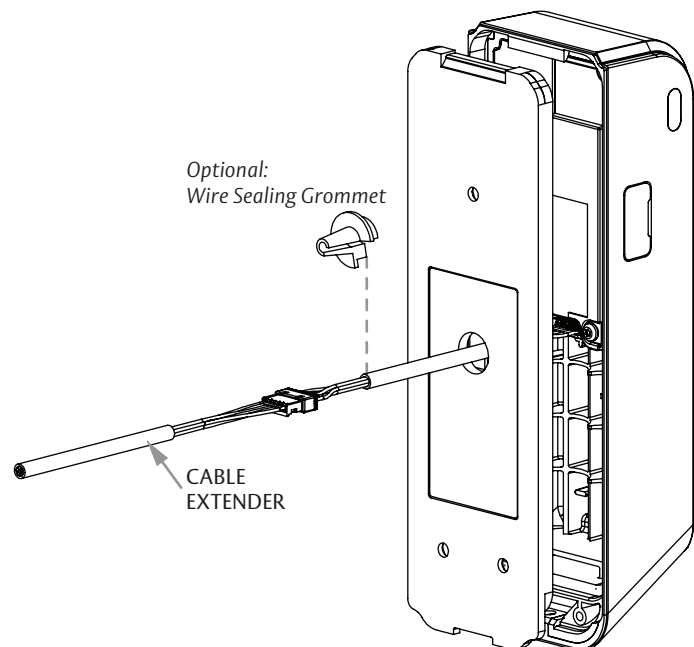
**Diagram 14** Installing the Secure Installation Kit to Reader



**Diagram 14A**  
Remove Gasket



**Diagram 14B**  
Drill Optional Holes



**Diagram 14C**  
Wiring



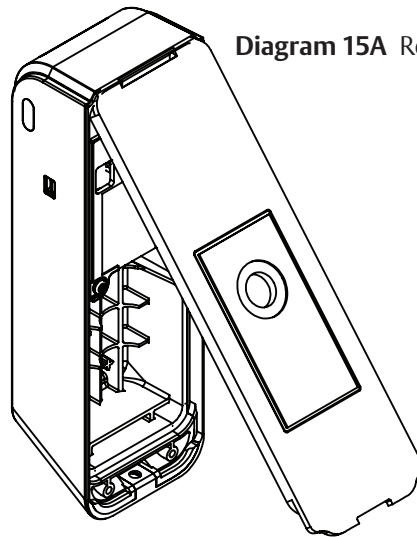
# Hard Power Adapter DR100/ES100/DL100 Reader Installation

- 1 REMOVE back plate if previously installed, **Diagram 15A**.
- 2 INSTALL provided Battery Contact clip by sliding contact over bottom rim of reader housing as shown, **Diagram 15B**.

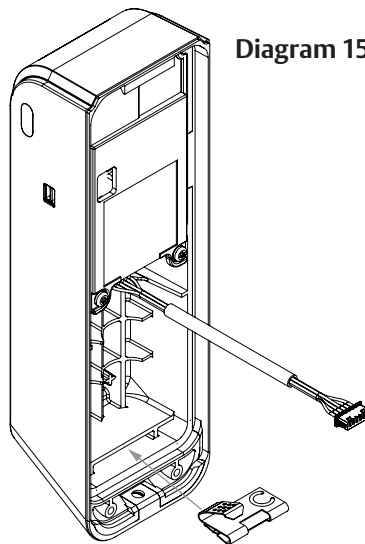
**NOTE:** The Battery Contact clip is required to provide enough tension to keep the Power Adapter in place when installed into the reader housing.

- 3 INSTALL AA Power Adapter into left side of battery pocket as shown. Ensure adapter is installed in the proper orientation, **Diagram 15C**.

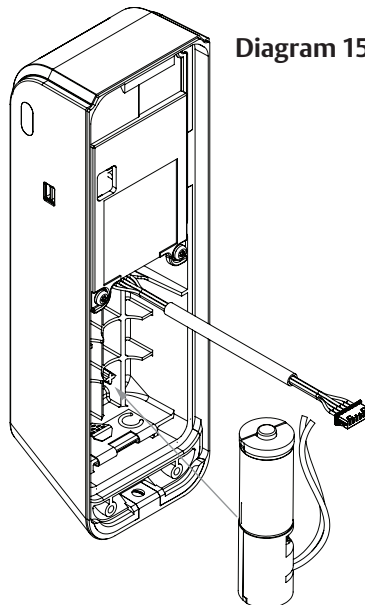
**Diagram 15** Installing Hard Power Adapter Kit in Reader



**Diagram 15A** Remove Back Plate



**Diagram 15B** Install Battery Clip

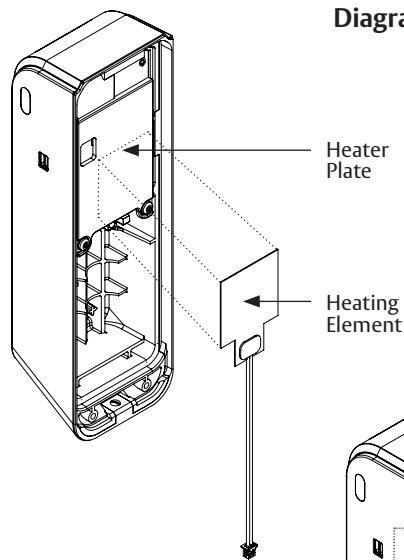


**Diagram 15C** Install Adapter

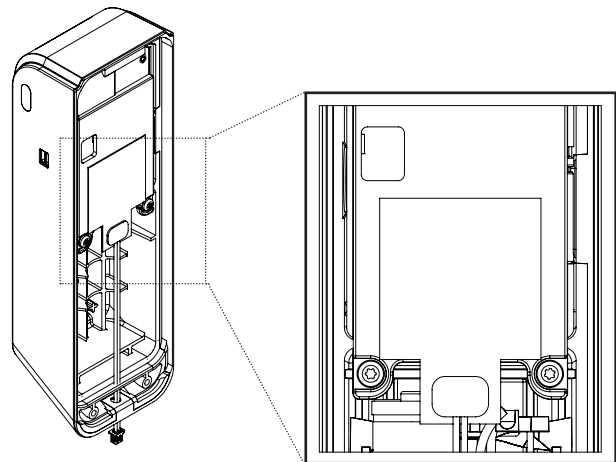
# Heating Element Installation

- 1 CLEAN surface of heater plate with provided alcohol wipe.
- 2 APPLY heating element to plate by peeling off adhesive backing and pressing heating element firmly onto the heater plate, **Diagram 16**.

**NOTE:** Adhesive is permanent, ensure heater is placed inside of the pocket on the heater plate and no part of the heating element is outside of this area when installing.

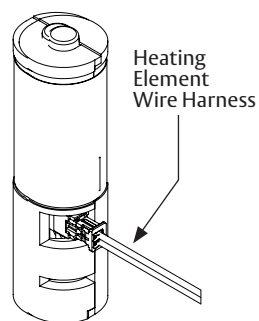


**Diagram 16** Heating Element Installation



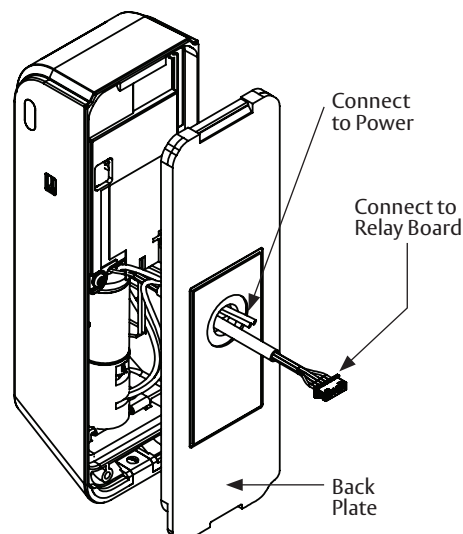
# Connecting the Heating Element to the Hard Power Adapter

- 1 PLUG wire from heater wire harness into plug on AA Power Adapter as shown, **Diagram 17A**.
- 2 ROUTE AA Power Adapter wires and reader wire harness through opening on back plate, **Diagram 17B**.
- 3 SECURE back plate to reader and mount reader per the product installation instructions, **Diagram 17C** and **Diagram 17D**.
- 4 CONNECT the positive (red) and negative (black) wires of the Hard Power Adapter to a 12-24 VDC power supply, **Diagram 17B**.

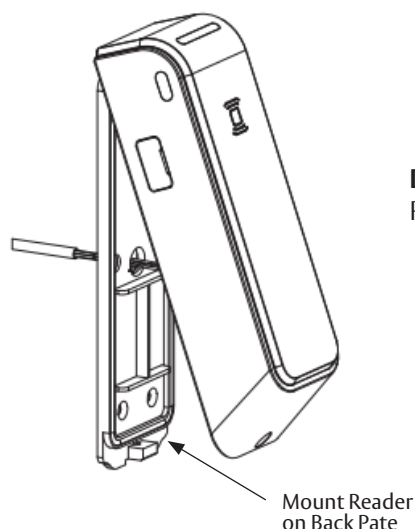


**Diagram 17A**  
Plug-in Heater

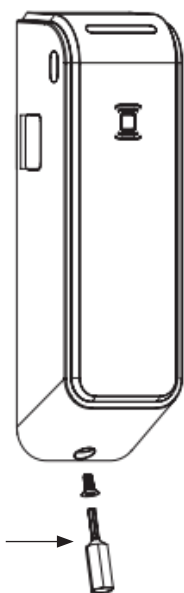
**Diagram 17** Connecting the Heating Element



**Diagram 17B**  
Route Wires



**Diagram 17C**  
Hook Reader



**Diagram 17D**  
Secure Reader

# Aperio PAP Tool Changes

- 1

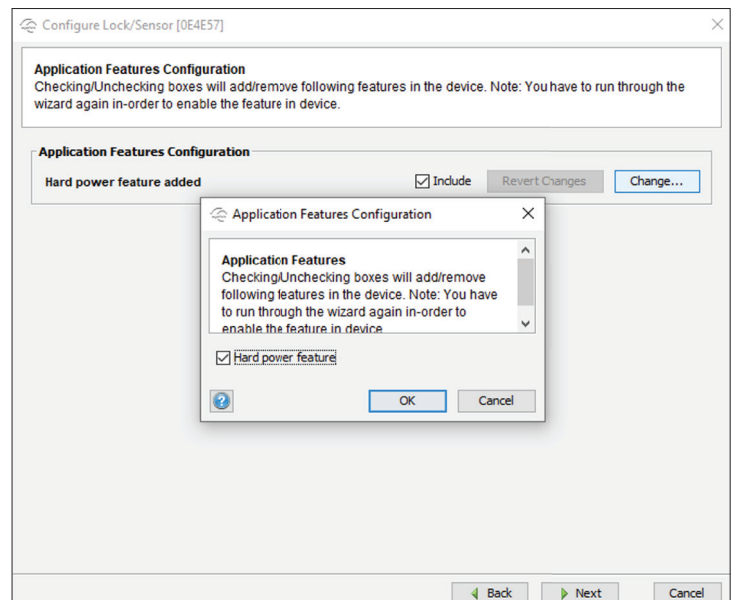
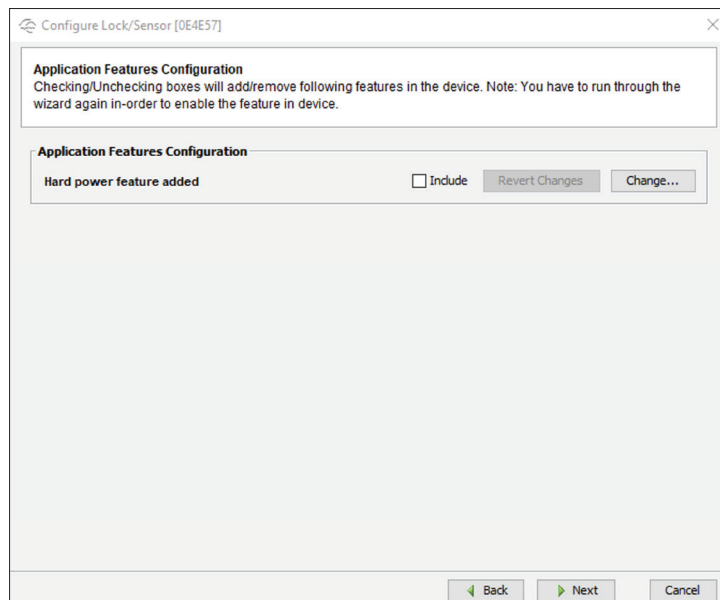
In order for the Aperio product to switch from batteries to the hard powered adapter, a setting needs to be changed inside the PAP tool.

**NOTE:** Firmware version 3.14 or greater is needed to utilize this feature.
- 2

Applicable Note — This setting is only available after import of device dependent features using the Import Application Feature Data function.

**See Aperio Program Application Help Section: Import Application Feature Data.**
- 3

Enable Hard Power — If the lock is equipped with hard power this setting will disable the Aperio platform's state of charge calculation and low battery warnings. Enable this setting to avoid confusion when monitoring a lock with a DC power option installed.



# Mounting Reader to Surface

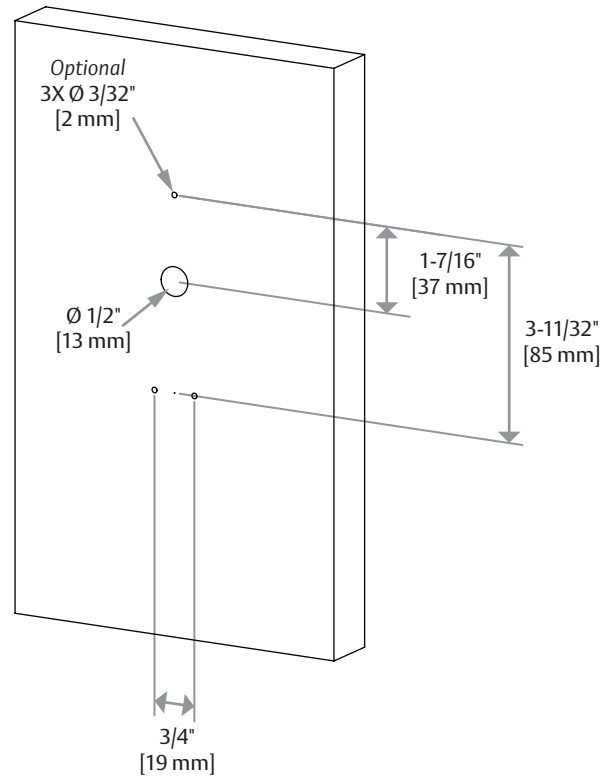
**NOTE:** When installing with the Secure Installation Kit the Reader is to be mounted on the unsecure side of the door, opposite to the Relay Housing.

- 1 DRILL 1/2" hole in mounting surface as indicated, **Diagram 18A**.
  - *Optional* – Use Reader Backplate as a template to drill 3 x 3/32" holes in mounting surface. (deburr the holes after drilling). Ensure back plate is level and aligned to 1/2" hole before drilling 3/32" holes.
- 2 CLEAN Reader mounting surface using provided alcohol swab.
- 3 ROUTE Reader wire harness and Wire Harness Extender through the 1/2" hole to the opening in the Relay Housing. This harness will go through the same opening as the input, output, and power wires, **Diagram 18B**.
- 4 MOUNT Reader by removing the adhesive tape backing on Reader Backplate and adhering to desired location. Apply pressure for at least 1 minute to properly activate the adhesive tape, **Diagram 19A**.
  - *Optional* – Secure Reader Backplate to door with the provided 3 x 4-20 Self-Tapping Screws, **Diagram 19B**.
- 5 HOOK Reader onto top of Reader Backplate and rotate until reader is fully seated, **Diagram 19C**.
- 6 SECURE reader to Reader Backplate with the provided 4-40 Security Torx Screw, fasten with T8 Security Torx Bit, **Diagram 19D**.

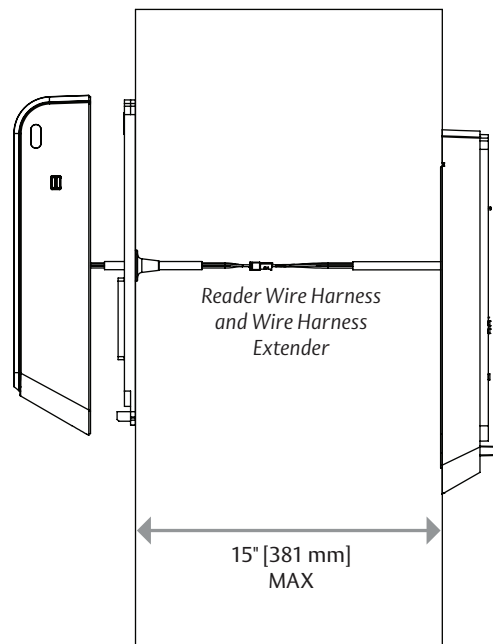
**NOTE:** Ensure reader is fully seated on Reader Backplate.

**Diagram 18** Preparing the Mounting Surface and Wire Routing

**Diagram 18A** Drill Holes



**Diagram 18B** Route Wires

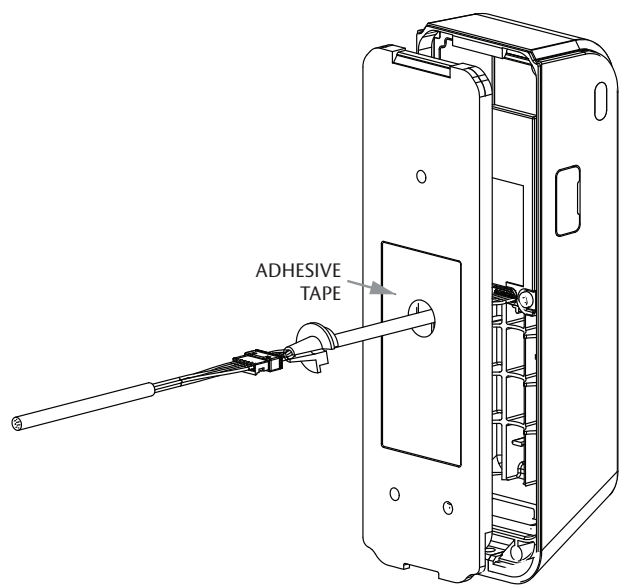


**NOTE:** The length allowable between reader and relay housing is 15".

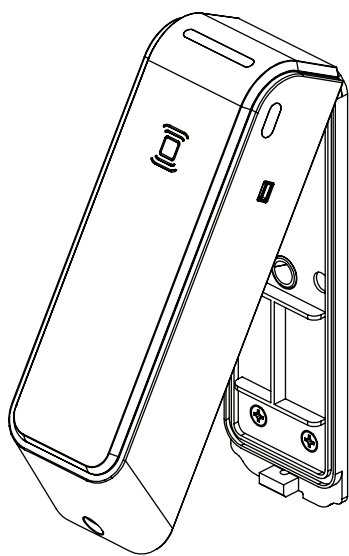
Wiring Distance from reader to secure board can not be extended further than provided cables.

**Diagram 19** Mounting and Securing Reader

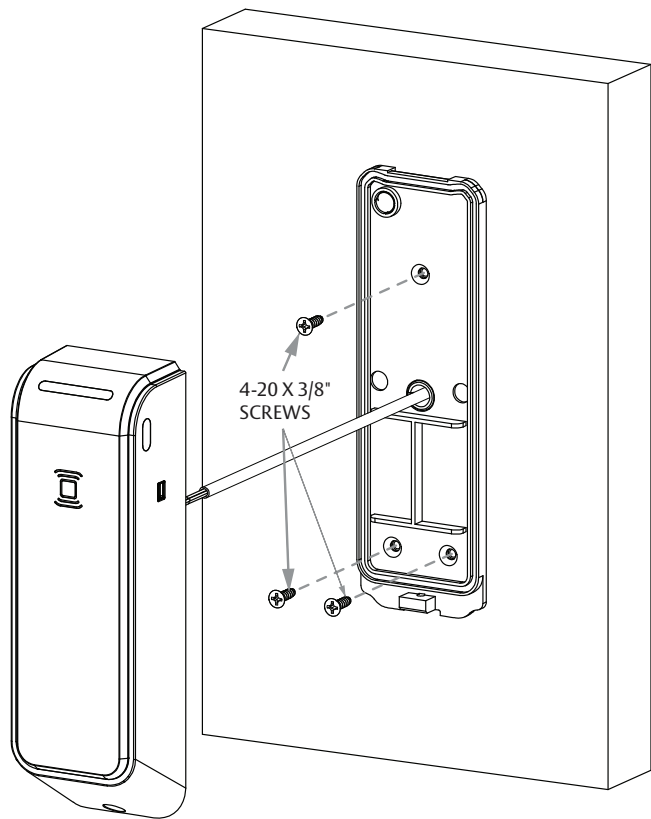
**Diagram 19A** Mount Reader



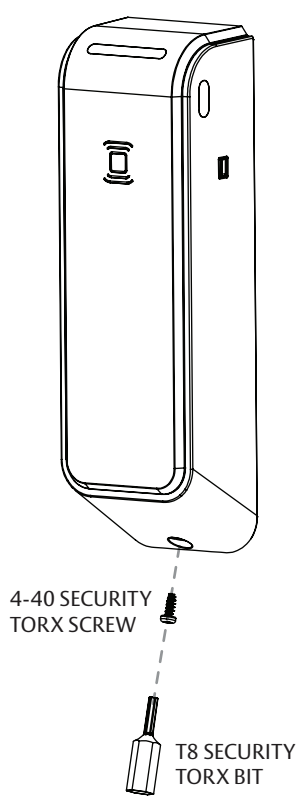
**Diagram 19C** Hook Reader



**Diagram 19B** Secure Reader Backplate



**Diagram 19D** Secure Reader



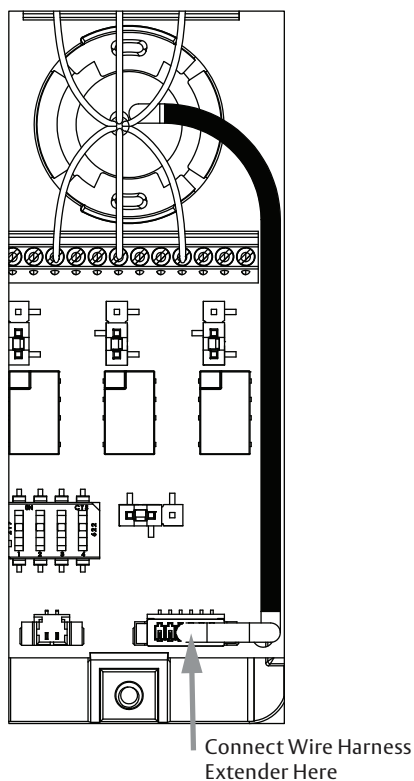
# Secure Side Relay Cover Installation

**NOTE:** The following steps are performed on the secure side of the opening.

- 1 ROUTE the Wire Harness Extender to the side of the terminal blocks as shown and tuck excess cable back into the wire opening.
- 2 CONNECT the Wire Harness Extender to location shown below on relay board, **Diagram 20A**.
- 3 HOOK Secure Side Relay Cover onto top of Relay Housing and rotate until Secure Side Relay Cover is fully seated, **Diagram 20B**.
- 4 INSTALL 4-40 Security Torx Screw to secure the Secure Side Relay Cover to Relay Housing using provided T8 Security Torx Bit, **Diagram 20C**.
- 5 VERIFY proper installation/wiring and ensure that all connected devices are operating as intended.

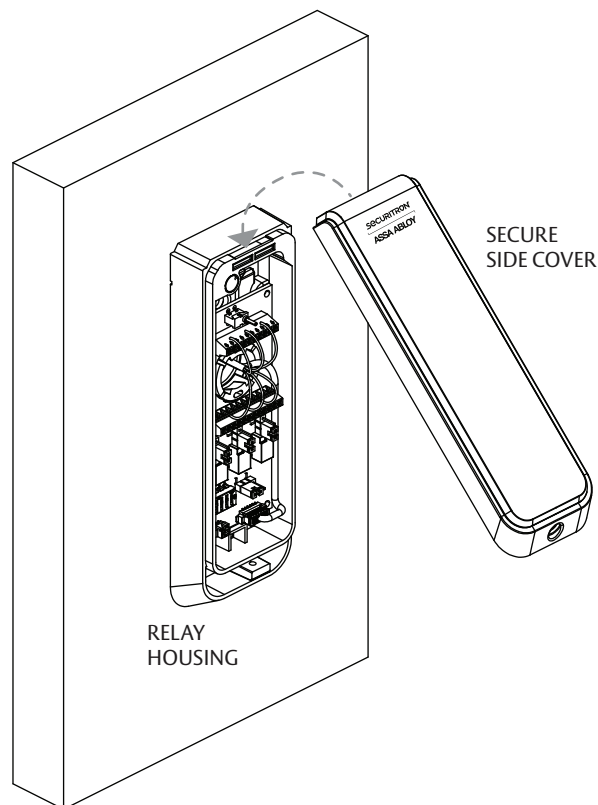
**NOTE:** All steps must be complete for device to exit tamper state and for device to function properly.

**Diagram 20A** Connect Wire

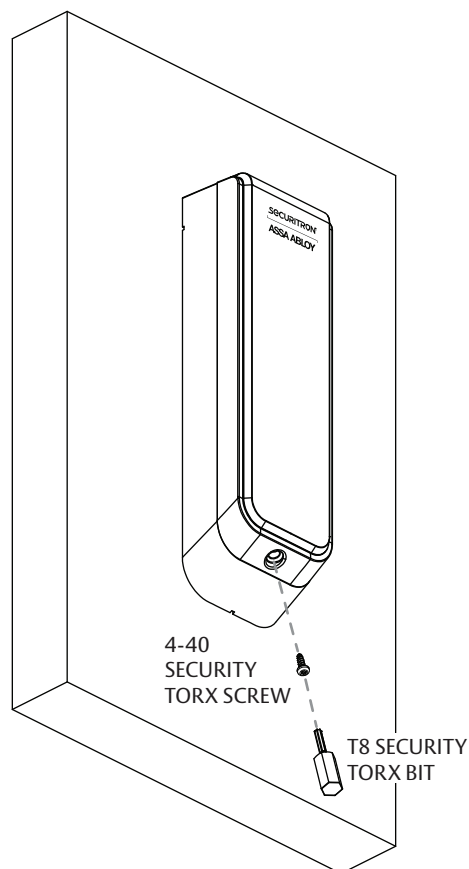


**Diagram 20** Secure Side Relay Cover Installation

**Diagram 20B** Secure Side Cover



**Diagram 20C** Install Screw



















# Aperio Hub Specifications

- **Approvals** ETL, FCC, IC, C-Tick
- **Safety & Emissions** FCC 47CFR Part 15 subpart B and subpart C; IC RSS-210 EN ETSI 301 489-17 v2.1.1; ENETSI 300 328 v1.7.1; EN 60950-1 ed.2 2007
- **Dimensions** 82mm x 82mm x 37mm
- **Power Supply** 8-24 VDC
- **Current** 250 mA minimum
- **Internal Antenna** 2 cross polarized dipoles
- **External Antenna (Part No. EXT-10-ANT)** One reverse polarity SMA external antenna connector. Optional antenna type dipole with max antenna gain of 3.9 dBi.
- **Radio Standard** IEEE 802.15.4(2.4GHz) – 15 channels (11-25)
- **Encryption (Radio Communications)** AES 128 bits
- **Wireless Operating Range** Up to 50 ft
- **Receiver Sensitivity** -100dBm 20% PER
- **Wireless Transmit Power** 10 dBm/MHz
- **Class of Protection** IP 20
- **Operating temperature** 41°F to 95°F [5°C to 35°C]
- **Humidity** <95% non-condensing
- **Status** LED (red/green/yellow)

**NOTE:** This hub has not been evaluated by UL.

## LED Codes

Aperio LED LOCK Codes		
(1) ONE Yellow Flash		Card read
(1) ONE Green Flash		Access Granted
(1) ONE Yellow Flash and Beep		Privacy Mode is Active
(5) FIVE Yellow (1) ONE Red		Force Closed (in open mode)
Continuous Yellow Flashes (.25 sec every second)		Comhub busy
(1) ONE Red Flash		Access Denied (AC Online)
(3) THREE Red Flash		Access Denied (AC Offline)
Continuous Red Flashes (.125 sec every second)		Lock is Blocked (when closing)
(10) TEN Red Flashes		Error in Lock
Continuous Yellow Flashes (.25 sec every 5 seconds)		Low Battery
Continuous Red Flashes (.25 sec every 5 seconds)		Dead Battery

Aperio LED HUB Codes		
Steady Green		Online
Steady Green + (1) ONE Red Flash		Lock Offline
Steady Green + (2) TWO Red Flashes		Access Control Offline
Steady Green + (3) Three Red Flashes		Access Control & Lock Offline
Flashing Yellow		UHF Communication

For questions regarding installation of the hubs such as hub placement, coverage area, or materials that may interfere or reduce range, please review the hub installation instructions:

[content.assaabloyusa.com/doc/AADSS1177359](http://content.assaabloyusa.com/doc/AADSS1177359)



## Product Specifications

- **Approvals** FCC, IC
- **Wireless Frequency** 2.4GHz, IEEE 802.15.4, using AES 128-bit encryption
- **HID® multiCLASS SE® technology Credentials Supported**
- **High Frequency (13.56 MHz)**
  - » HID iCLASS®
  - » HID iCLASS SE® (SIO-enabled)
  - » HID iCLASS® Seos™
  - » HID MIFARE® SE
  - » HID DESfire® EV1 SE
  - » MIFARE CLASSIC
  - » DESfire® EV1
  - » DESfire® EV2 (Legacy Mode)
- **Low Frequency (125 kHz)**  
HID Prox®, AWID, EM4102
- **Mobile Access Credentials**  
NFC  
HID BLE Mobile Access  
SEOS iOS Apple Wallet

## Certifications

- UL 294 listed – Indoor & Outdoor Rated
- FCC Part 15 & Industry Canada Compliant
- RoHS compliant



## Safety and Emissions

- **FCC 47CFR Part 15, subpart C**
- **IC RSS-102**
- **RSS-210**
- **RSS-247**
- **RE Directive 2014/53/EU** EN 301 489-1, EN 301 489-3, EN 300 440, EN 300 330, EN 300 328, EN 62368-1, EN 62479

## Product Characteristics

- **Bluetooth® LE**
  - » Operating frequency range: 2400–2483.5 MHz
  - » EIRP: ≤ 10 dBm
- **NFC**
  - » Operating frequency: 13.56 MHz
  - » Radiated H-field: ≤ 60 dBµA/m @ 10 m
- **IEEE 802.15.4**
  - » Operating frequency range: 2400–2483.5 MHz
  - » EIRP: ≤ 10 dBm

**NOTE:** The effective operational range/distance (RF performance) of any wireless device is dependent on a variety of factors including but not limited to metalized reflective surfaces, absorbing materials, building materials, coexistence with nearby transmitters, adjacent band harmonics, etc. For example, if the application requires the Aperio DR100 Reader to communicate through glass with metalized (solar) film applied to reach the hub, the maximum distance may be reduced depending on these factors. Please perform an RF site survey before installation.

## WARNING

### FCC Statement

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

Operation with non-approved equipment is likely to result in interference to radio and TV reception. The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the user's authority to operate this equipment. To comply with FCC and Industry Canada RF radiation exposure limits for general population, the module must be installed to provide a separation distance of at least 20cm from all persons and must not be colocated or operating in conjunction with any other antenna or transmitter.

This module is labeled with its own FCC ID and IC Certification Number. If the FCC ID and IC Certification Number are not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. In that case, the final end product must be labeled in a visible area with the following:

Contains FCC ID: VC3-DR100V3      Contains FCC ID: Y88-MBM1CC2640  
Contains IC ID: 7160A-DR100V3      Contains IC ID: 9504A-MBM1CC2640

### IC Statement

This device complies with Industry Canada license-exempt RSS standards(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation.

### Conformité aux normes IC

Cet appareil est conforme avec Industrie Canada exempt de licence RSS standard(s). Son fonctionnement est soumise aux deux conditions suivantes:

- (1) cet appareil ne peut causer d'interférences, et
- (2) cet appareil doit accepter toute interférence, y compris des interférences qui peuvent provoquer un fonctionnement indésirable du périphérique.

## Warranty

For information on warranty coverage and replacement options, please visit [securitron.com/warranty](https://securitron.com/warranty)

**SECURITRON**  
**ASSA ABLOY**

[techsupport.securitron@assaabloy.com](mailto:techsupport.securitron@assaabloy.com)  
[securitron.com](https://securitron.com) | 800 626 7590

Printed in the U.S.A.  
Patent pending and/or patent [www.assaabloydss.com/patents](https://www.assaabloydss.com/patents)  
Copyright © 2025, Hanchett Entry Systems, Inc., an ASSA ABLOY Group company.  
All rights reserved. Reproduction in whole or in part without the express written permission of Hanchett Entry Systems, Inc. is prohibited. 500-33710\_3