



# Hotel

## Security and Access Solutions

ASSA ABLOY Hospitality

ASSA ABLOY

The global leader in  
door opening solutions

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## The Company

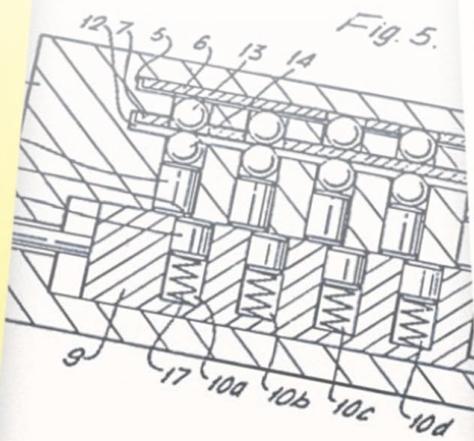
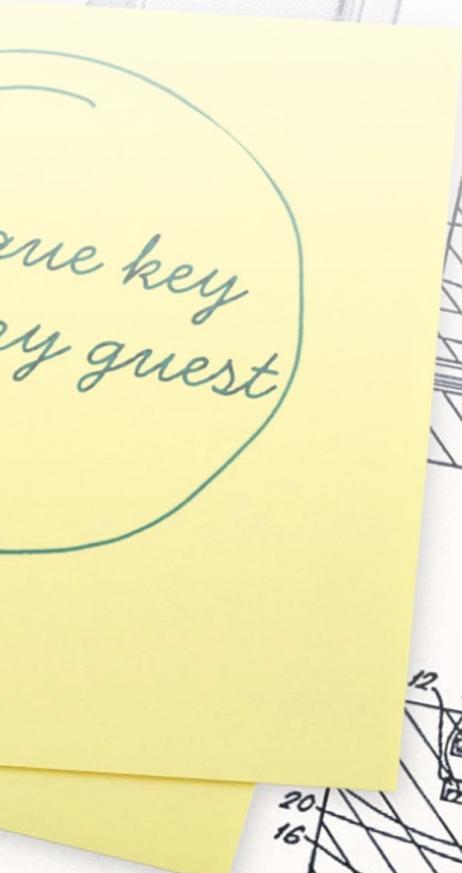
# ASSA ABLOY Hospitality

Our story began in 1974, when lock maker Tor Sørnes heard that an intruder had attacked his favorite singer in her hotel room.

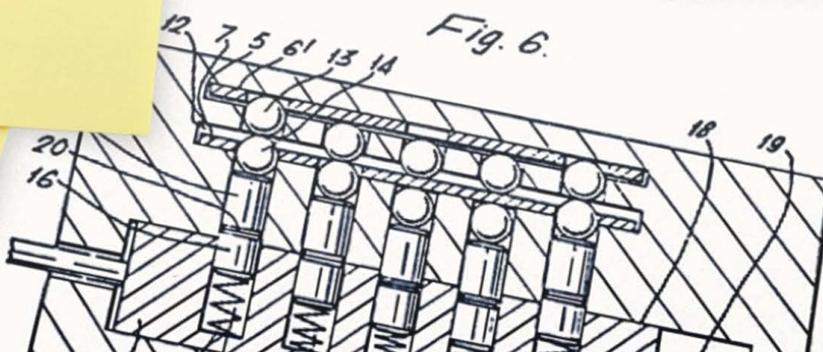
Inspired to help, he resolved to invent a security system that would provide a unique key for every guest. His invention changed the whole lock industry.

As industry pioneers we've always led the way – employing innovative technology to make people feel safe and secure wherever they want to go.

ASSA ABLOY Hospitality has products installed in more than 42,000 properties worldwide, securing in excess of 7 million hotel rooms. We continue to use advanced technology to offer security and peace of mind to both hospitality providers and their guests. ASSA ABLOY Hospitality's extensive international network covers more than 166 countries.



Den første prototypen på VingCard låsen.



## The Company

# Why ASSA ABLOY Hospitality Solutions?

Our purpose is not simply to lock and unlock more doors—it is to unlock the feeling of safety, security and belonging for more people, wherever they want to go.

We know what it takes to unlock a feeling of security, for hotels and their guests. Our Scandinavian design is well-known throughout the world for the quality, functionality and durability it represents. Since we invented the first card lock system in 1979, we have continued to innovate and deliver high quality electronic locks and safes to the hospitality industry.

We bring experience, knowledge, modern technology and the finest materials to the task. By focusing on industry trends, modern manufacturing facilities, internal resources and a close dialogue with our customers, ASSA ABLOY Hospitality has been able to continuously develop solutions to match customer needs. Our vast array of solutions and services are created with full compatibility in mind in order to meet the unique demands of any property or resort.

Designed according to the most demanding standards, VingCard's electronic locks are tested to more than 1 million openings. Based on a heavy duty mortise lockcase and a solid escutcheon, the lock is as solid as it is secure. Solid brass handles fastened on the inside of the escutcheon with self-lubricating long-life bearings ensure maximum security and a true quality touch and feel.

In setting a new standard in electronic safe security design, ASSA ABLOY Hospitality currently produces the industry's only UL-1037 certified safe, providing guests and their valuables with the highest level in hotel security.

We are dedicated to offering advanced security solutions and peace of mind for both hospitality providers and their guests.

“We want to unlock the feeling of safety for people, wherever they want to go.”

Tim Shea  
President, ASSA ABLOY Hospitality



# ASSA ABLOY Hospitality Your Total Solution Provider



**RFID Elevator Controller**  
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Welcome back!  
You are ready to  
start check in



RESERVATION  
Augusto Hotel Villa  
25-28 May

START CHECK IN



## 2. Mobile Access

Always setting the pace in hospitality innovation, ASSA ABLOY Hospitality has played an integral part in developing and implementing mobile access technology throughout hospitality markets around the globe. A highly advanced mobile phone-based keyless entry solution, ASSA ABLOY Hospitality Mobile Access has already been installed in tens of thousands of guestrooms worldwide.

Powered by Seos®, the first ever multi-platform ecosystem for issuing, delivering or revoking digital keys, properties equipped with Mobile Access can provide guests with the ultimate check-in convenience by allowing them to use personal devices as a room key and bypass the front desk entirely.

As a result, this proven technology solution can provide the added benefits of more streamlined front desk operations and reduced costs to the hotelier.

# Mobile Access

## Three Different Solutions

You can choose between three variations of the solution depending upon your needs.



### Customer Integration

This solution is created for hotels with their own app initiatives that want to integrate mobile access into their own apps and back end systems. ASSA ABLOY Hospitality provides a Mobile Access Software Development kit (SDK) together with dedicated onboarding services to facilitate seamless integration.



### Third-Party (Certified Partners)

This solution suits hotels that want mobile app functionality beyond access control alone, but don't yet have their own in-house app initiatives. They can choose a solution from one of our selected app specialist partners, who through our Certified Partner Program have already integrated our mobile access functionality into their products.



### ASSA ABLOY Hospitality Mobile Access App

This is our own developed off-the-shelf solution, which is ready to use. It suits hotels that want to provide basic mobile access solutions to their guests in an easy way. There are no integration or third-party dependencies and two variations of this solution are available.

#### A

*A generic app that is published by ASSA ABLOY Hospitality on App Store and Google Play. Through an administration portal, the hotel can customize their digital key graphics that will then show in a "Passbook" inspired style.*

#### B

*ASSA ABLOY Hospitality provides the basic app structure with a Software Development Kit in order for the customer to easily finalize the app with their own look and feel and publish it on App Store/Google Play as their own branded version.*



# Mobile Access Benefits



## Unique user experience

Mobile Access offers guests a whole new hotel experience. Depending on the solution deployed they can reserve and book their room using their mobile phone or device. They can then use the phone to check in and check out.

## Skip front desk - No queues

When guests arrive, guests can go straight to their room using their own smartphone to open the door. No need for keys or keycards. There is no need to wait in a queue at the front desk after a long journey. This seamless experience is secure, convenient and saves everyone time.



## Better guest experience

In improving service levels and guest experience, Mobile Access builds customer loyalty as well as the hotel's image and brand. Such a central feature adds value to hotel's mobile strategies, making them more relevant to a hotel's customers.

## Operational efficiencies and guest service

On the operational side, Mobile Access streamlines front desk operations, reducing costs and freeing up the front desk team to focus on other important aspects of guest service.

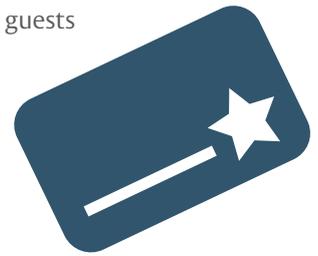
## Increased loyalty and profitability

Mobile Access facilitates one-to-one communication with the hotel guests, ultimately driving customer loyalty and revenue. Together all the benefits of Mobile Access lead to enhanced hotel image and guest loyalty. This, creates more efficient operations that reduces cost driving revenue, improved profitability and increased competitiveness.

# Mobile Access

## How it Works

Regardless of the solution deployed, the same core Mobile Access will give guests an experience that is convenient, secure and timesaving.



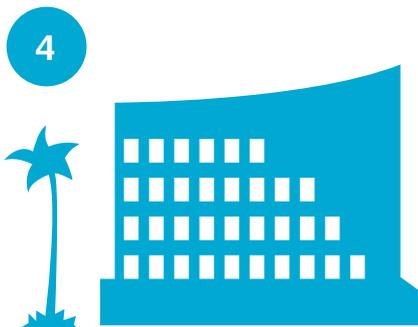
1  
The hotel guest downloads the app, registers his/her smartphone through the app and allows push notifications.



2  
The guest makes a reservation and approximately 24 hours before arrival, he/she is invited through a push notification to use Mobile Access and start the check-in process.



3  
The guest receives a push notification noting that he/she is checked in and the app will update with the room number and the digital key when the room is ready.



4  
Upon arrival the guest can bypass the front desk and go directly to his/her room.



5  
After ensuring that the Bluetooth is enabled, the guest simply holds the smartphone to the door lock, waits for the solid green light and enters the room.



“Imagine the convenience of being able to open doors through a digital key stored on your smartphone... Now you can.”





## 3.VingCard Electronic Locks

Designed according to the most demanding ANSI grade 1 standards, VingCard's electronic locks are tested to more than 1 million openings. Based on a heavy-duty mortise lockcase and a solid escutcheon, the lock is as solid as it is secure. Stainless steel handles fastened on the inside of the escutcheon with self-lubricating long life bearings ensure maximum security and a true quality touch and feel.

Since 1979, research and development has been a key element for us in finding new solutions for the future. By working together as a team, using our learning experience from the market and combining it with our know-how, we are able to develop tomorrow's solutions.

The modular construction makes it easy to change and service parts without changing the complete lockset. Due to our future-proof philosophy the lock software can be upgraded in the field at any time when needs change without changing or removing any hardware.

# Electronic Locks

## VingCard Allure

VingCard Allure is a designers' dream. Unique design and exceptional features make Allure more than you would imagine it to be. It can act like a lock, but surely does not look like one. With its sophisticated glass looking fronts and elegant touch, Allure is a jewel in disguise. More flexible than ever before, you can now choose the appearance and functionality based on your desires.

### Features:

- The industry's most advanced and secure RFID technology.
- Wall-mounted panel with LED light information indicators.
- Wall reader with customizable intelligence and functionality.
- Stylish glass looking panels with flexible design options.
- Illuminated room number option with 16 selectable LED light color themes
- Inside panel for setting "Do Not Disturb" (DND) and "Make Up Room" (MUR) status.
- Standalone solution for DND/MUR setting and status display.
- Wireless communication between wall and door unit.
- Online connectivity with Visionline Wireless (ZigBee) or Visionline Wired (PoE).
- Integration with GRMS.



### ACCESS PANEL

The most advanced VingCard Allure panel has all available functions included.

You get an RFID lock, based on VingCard's well-known RFID locking solution and quality, "Make Up Room" (MUR) and "Do Not Disturb" (DND) status indicators, a doorbell button and room number display.



## ROOM STATUS PANELS

When a lock is not required, Allure can also be supplied as a room status panel with MUR and DND indicators, in addition to a doorbell button.

This panel is suitable if you already have an electronic locking solution or for rooms where a lock is not required, such as a conference room.



## IN-ROOM PANELS

To activate the MUR and/or DND room status, it is necessary to have an in-room switch panel. This panel can be installed wherever it is suitable or convenient.

VingCard's room bus system also allows multiple panels within one room or suite.

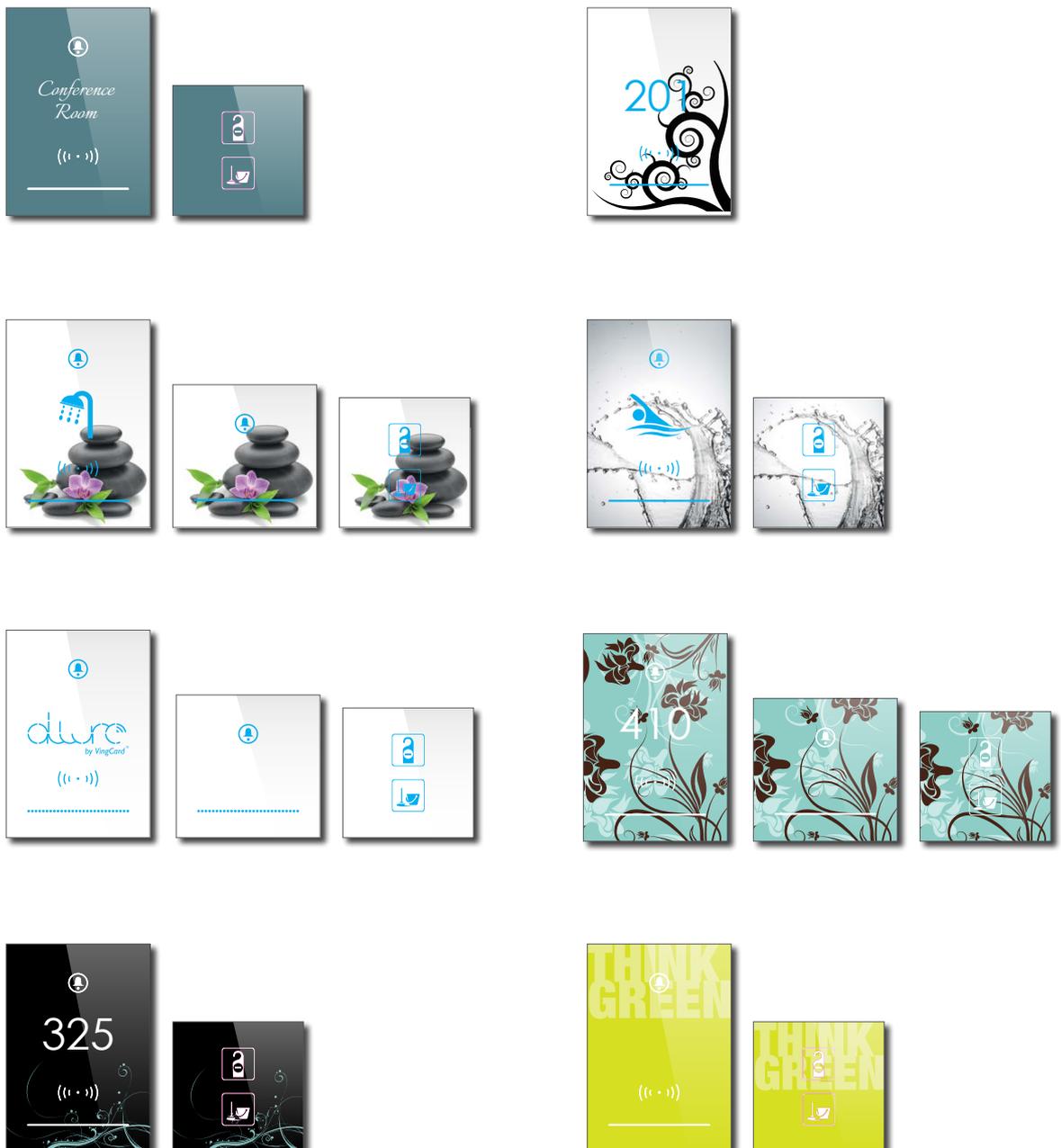
## Customization through expression

With VingCard Allure, you have the ability to customize as desired to match your property through a range of options.

### DESIGN

For our most advanced panel, you can choose to have an image, illustration or full color. You can choose to have text, logo, room number or an icon. In addition, you may also choose to have your own font to display room numbers or names. The choice is yours.

For panels where room number display is not an option, the choices you have are many. Your choice of panel design is totally up to you.



## Electronic Locks

# VingCard Essence

VingCard Essence revolutionizes the electronic lock industry by housing all lock components, including the reader, inside the door and therefore, reaching the maximum minimalistic expression, the true essence of an electronic lock.



# Electronic Locks

## VingCard Signature RFID

With Signature RFID you are provided with a stylish and modern lock that appeals to the modern hotel environment. Signature RFID is less on the door and more for you and your guests in terms of functionality and user friendliness.

### Upgrade to RFID Technology

- 3-5 minute operation.
- No need to replace the lockcase or handles.
- No drilling required.
- No downtime in room availability.
- No disturbance for your guests.



# Electronic Locks

## VingCard Classic RFID

Classic RFID derives from the standard Classic lock and allows you to go contactless in a few short steps if you already have standard Classic installed. With its sleek and elegant design, available in all VingCard lock finishes, you now have a second method of upgrading to RFID functionality depending on your choice of style.

### Upgrade to RFID Technology

- 3-5 minute operation.
- No need to replace the lockcase or handles.
- No drilling required.
- No downtime in room availability.
- No disturbance for your guests.



# Electronic Locks

## VingCard Flex

With VingCard Flex you are provided with a robust RFID lock that is specially developed for upgrading properties from Timelox S-series installations to the newest RFID lock hardware platform without drilling the door. VingCard Flex is fully compatible with the latest solutions for Mobile Access and RF online communication.

- 3-5 minute installation time
- No need to drill holes or use mortise tools
- Keep old Timelox lock cases for even greater upgrade savings
- Tubular latching compatible
- Update to RFID and Mobile Access quickly and affordably
- Less maintenance compared to magstripe
- Supports Zigbee online functionality



# Electronic Locks

## Finishes and Handles



### Optional PVD finish (Physical Vapor Deposition) - for extreme conditions:

ASSA ABLOY Hospitality offers an exclusive PVD coated finish that protects the lock finish from corrosion, UV rays, salt, extreme weather conditions, aggressive cleaning products and more. PVD not only maintains the finish of the lock for longer, it is also covered by a 10-year warranty.

The PVD finish is available as an optional feature for Signature locks in the following finishes only: Satin - Chrome or Brass and Polished - Chrome or Brass.



### Mobile Access

The latest generation of VingCard RFID locks Signature, Classic and Flex are compatible with Mobile Access. The only thing needed is to add a small Bluetooth Low Energy (BLE) board to the lock.



### Cylinder options

VingCard locks may also be supplied with an optional mechanical key override cylinder.

- Use of mechanical key override is registered in the lock memory for audit trail.
- Mechanical cylinder can be either visible or not visible with a cylinder concealer (Signature only, finish may vary from lock finish).
- Superior pick resistance through its 7 pin high security profiles and narrow channel paracentric keyway and anti-pick drivers.
- Unique cylinder fixing for added security.
- 5 times recodable cylinder.
- Cylinder is available in all lock finishes.



### Automatic deadbolt option

The automatic deadbolt lockcase has been produced to provide our customers and their guests with an added measure of security. Automatically extending the deadbolt upon door closure ensures that the security of the deadbolt is present without the guest having to remember to extend it via the thumb turn.

## Handle options

To truly match the style requirements at your property, we also offer a wide range of handle options.

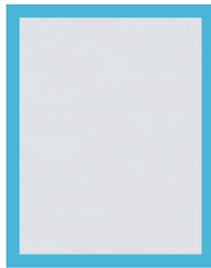
VingCard locks handles			
			
Ship Handle	US Ship Handle	Standard Handle	Functional ANSI Handle
			
Gothic Handle	Wing Handle	Special Handle (45 degrees slant)	Straight Handle

## Finishes

Offering one of the industry's widest choices of finishes, VingCard electronic locks can be configured to truly match the design of any property. \*



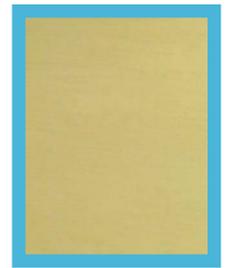
Satin Chrome



Polished Chrome



Satin Brass



Polished Brass



Velour Nickel  
w/Polyester



Light Bronze



US Antique Dark

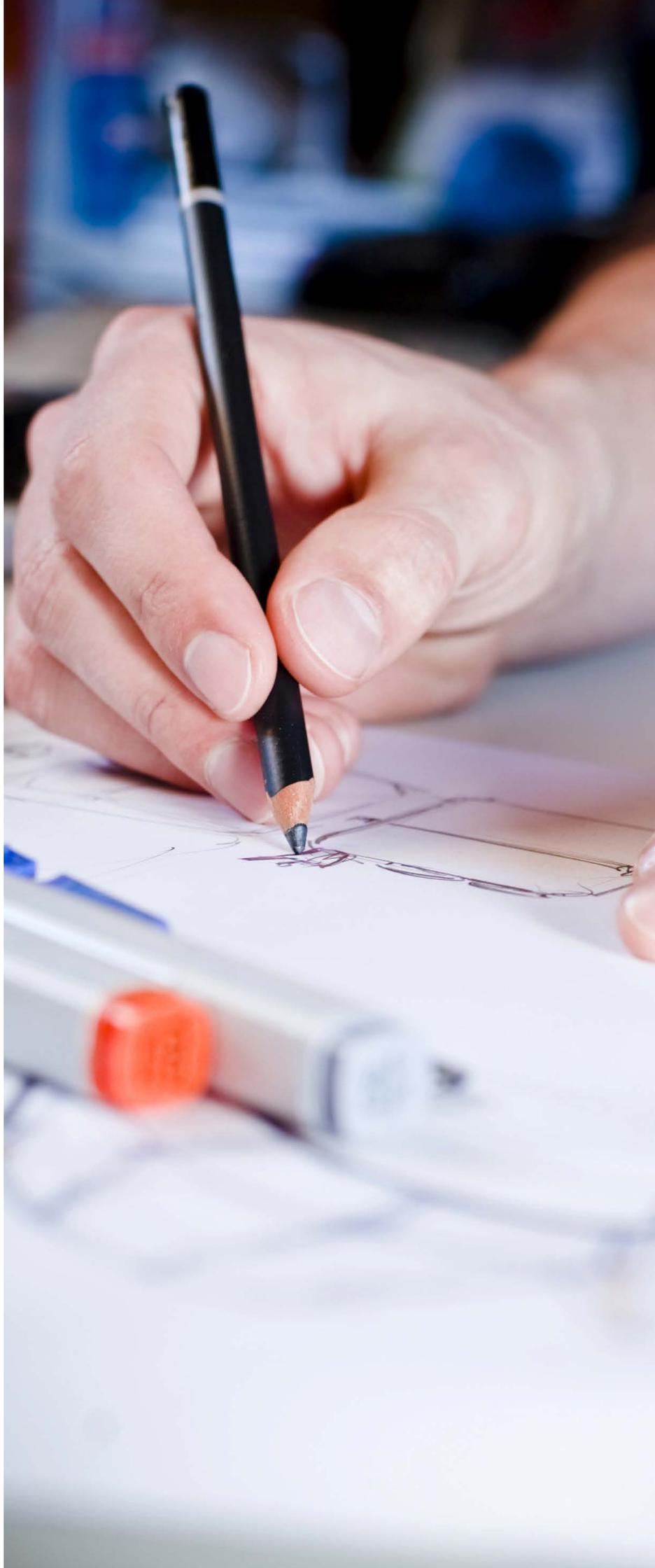
\* Pictures of finishes might differ from reality

# Optional Designers' Collection

## Optional Designers' Collection

Because your hotel requires the most exclusive and luxury touch, and you want to offer a personal and unique experience to your guests, VingCard Signature has created an optional Designers' Collection in order to offer you the most extensive and exclusive designer handles for electronic locks today.

VingCard has partnered with the following renowned designers through the famous Italian handle crafter Valli&Valli: Norman Foster and Partners, Gustav Peichl, Antonio Citterio, Gregotti Associati, Sottsass Associati and Taller Design Ricardo Bofill. Our designer handles are compatible with Signature, Signature RFID, Essence and Allure.



# Electronic Locks

## Comparison Table



ALLURE



ESSENCE

Lockcase	ANSI, EURO, US ANSI, JPN and AUS	ANSI, EURO, US ANSI, JPN and AUS
Panic release	Yes	Yes
Auto deadbolt	Optional	Optional
Mechanical override	Optional	Optional
Solid metal (Stainless Steel or Brass)	Yes	Yes
Cylinder tampering alarm-event	Yes	Yes
Reader technology	RFID	RFID
Flash RAM technology	Yes	Yes
Upgradeable reader technology	N/A	N/A
RFID upgradeable	N/A	N/A
RF-online upgradeable	Yes <sup>(2)</sup>	Yes <sup>(2)</sup>
Anti-Cloning technology for RFID cards	Yes	Yes
On-Line software technology	Visionline <sup>(3)</sup>	Visionline <sup>(3)</sup>
Off-Line software technology	Visionline	Vision or Visionline
Power supply	3 AA batteries + external 12-24V DC power	3 AA batteries
Automatic unlock/lock	Yes	Yes
Passage mode	Yes	Yes
Audit trail (lock events stored in lock memory)	Visionline: 2000 events	Visionline: 2000 events. Vision: 600 events
Guest privacy function	Yes	Yes
Finishes	7	7
Reader/Panel colors	Black/White standard or customized <sup>(6)</sup>	Black/White
Standard handles	4 + optional designer handles	4 + optional designer handles
UL fire listed	Yes	Yes



**SIGNATURE RFID**



**CLASSIC RFID**



**FLEX**

<b>Lockcase</b>	ANSI, EURO, US ANSI, JPN & AUS	ANSI, EURO, US ANSI, JPN & AUS	TLX 9025/9050/DIN, ASSA524 Tubular latches: Lockwood 530, Yale 280
<b>Panic release</b>	Yes	Yes	Yes
<b>Auto deadbolt</b>	Optional	Optional	No
<b>Mechanical override</b>	Optional	Optional	Optional
<b>Solid metal (Stainless Steel or Brass)</b>	Yes	Yes <sup>(1)</sup>	Yes
<b>Cylinder tampering alarm-event</b>	Yes	Yes	Yes
<b>Reader technology</b>	RFID	RFID	RFID
<b>Flash RAM technology</b>	Yes	Yes	Yes
<b>Upgradeable reader technology</b>	N/A	N/A	N/A
<b>RFID upgradeable</b>	N/A	N/A	N/A
<b>RF-online upgradeable</b>	Yes <sup>(2)</sup>	Yes <sup>(2)</sup>	Yes
<b>Anti-Cloning technology - RFID cards</b>	Yes	Yes	Yes
<b>On-Line software technology</b>	Visionline <sup>(3)</sup>	Visionline <sup>(3)</sup>	Visionline
<b>Off-Line software technology</b>	Vision or Visionline offline	Vision or Visionline offline	Visionline
<b>Power supply</b>	3 AA batteries <sup>(4)</sup>	3 AA batteries <sup>(4)</sup>	3 AA batteries <sup>(4)</sup>
<b>Automatic unlock/lock</b>	Yes	Yes	Yes
<b>Passage mode</b>	Yes	Yes	Yes
<b>Audit trail (lock events stored in lock memory)</b>	Visionline: 2000 events Vision: 600	Visionline: 2000 events Vision: 600	Visionline: 2000 events
<b>Guest privacy function</b>	Yes	Yes	Yes
<b>Finishes</b>	7	7	2
<b>Reader/Panel colors</b>	Black	Black	Black
<b>Standard handles</b>	4 + optional designer handles	4	2
<b>UL fire listed</b>	Yes	Yes	Yes

1) Stainless steel valid on chrome/brass finishes. Brass valid on non-standard finishes.

2) Upgrade to RF-online requires electronic upgrade, network upgrade and front desk equipment upgrade.

3) Requires Visionline reader parts.

4) Up to 3 years normal lifetime.

5) Valli & Valli collection is only available in 4 finishes (Satin Chrome, Satin Brass, Polished Chrome and Polished Brass).

6) Special conditions apply.





## 4. Elsafe In-room Safes

Electronic in-room safes contribute to raising the security level in your hotel, increasing your guests' peace of mind.

Our in-room safes are tested by the world's most recognized and respected product testing organization Underwriters Laboratories. Elsafe Infinity is the first UL-listed in-room safe in the 1037 category for anti-theft devices. This prestigious UL listing is now awarded to both the Infinity and Sentinel models, including physical break-in tests, endurance tests and jarring tests.

The exclusive UL-1037 listing achieved by Elsafe's in-room safes gives you added assurance that your guests' valuables are receiving the maximum level of protection possible. Not only does this protect your guests' property, it also protects your property's valuable reputation. With Elsafe, your guests can rest easy and so can you.

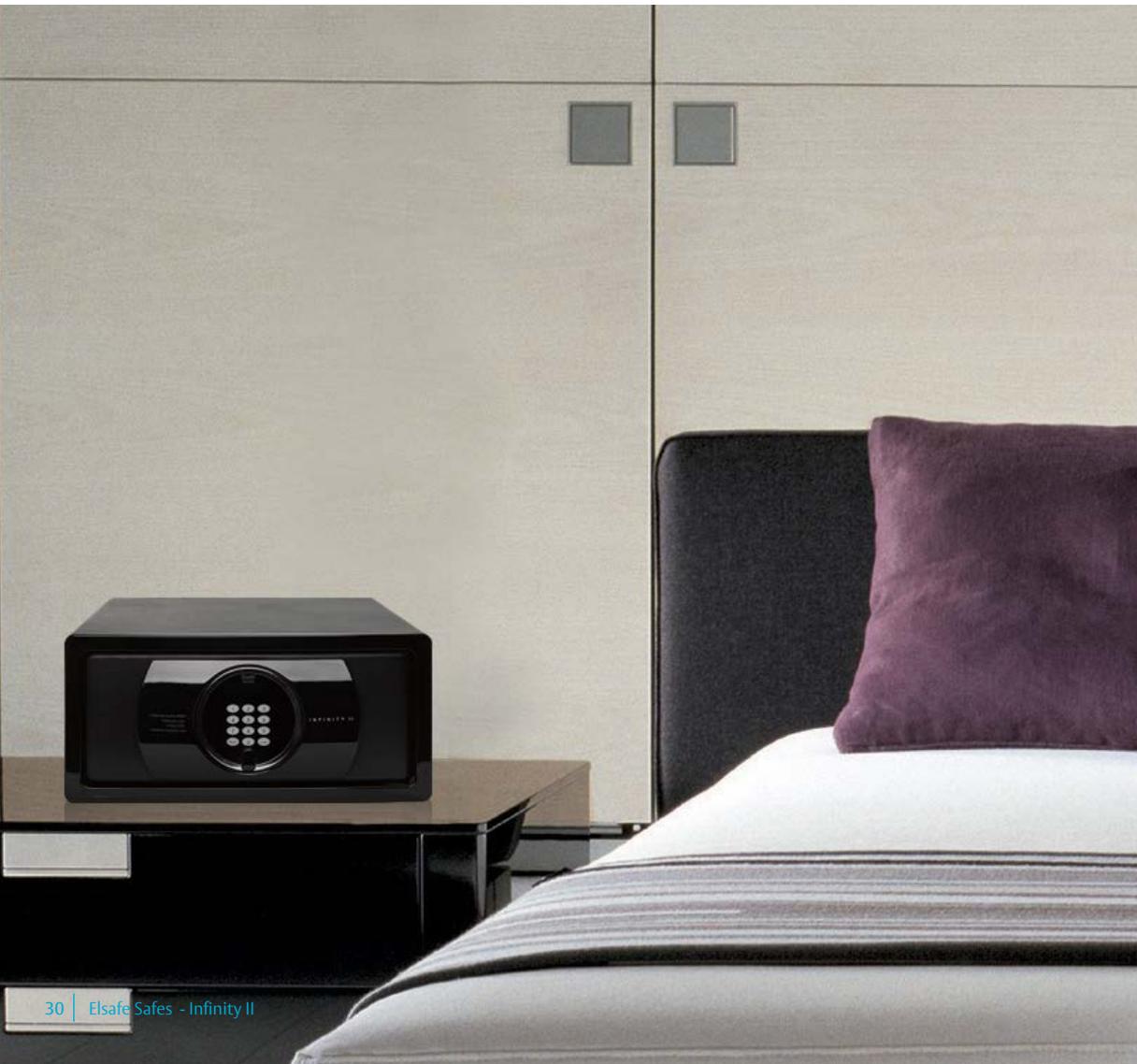
# Electronic Safes

## Infinity II

Elsafe's Infinity II series introduces a new era in hotel in-room safes. Infinity II is ideal for the most demanding hotels, lifestyle brands and boutique properties that strive to be different. By combining sophisticated technology and fashionable design, Infinity II is the ultimate safe for the design-conscious hotelier.

### Standard features:

- UL-1037 certified for physical security.
- Industry-leading audit trail.
- Confirmation buzzer.
- Convenient inside light.
- Anti-tamper switch.
- Easy outside battery change.
- Unique modular construction for easy upgradeability.
- Spring-loaded door.
- Backlit keypad.



### Security - UL Listed

This prestigious UL listing is now awarded to both the Infinity and Sentinel models, including physical break-in tests, endurance tests and jarring tests.



# Electronic Safes

## Sentinel II

Elsafe goes beyond the ordinary with its new Sentinel II hotel in-room safe series. We have taken in-room security to a new level and combined it with a functional and trendy design. Sentinel II electronic in-room safe is more than just an in-room safe. It has become an important style element that blends into any environment! This new safe series operates with digital keypad.

Elsafe Sentinel II Digital in-room safe gives you the highest standard in hotel in-room security with the UL-1037 certification. Our hotel safes set the pace with the most unique features offered in electronic safes for hotels.

### Standard features:

- UL-1037 Certified for physical security.
- Industry-leading audit trail.
- Easy outside battery change.
- Spring-loaded door.
- Unique modular construction for easy upgradeability.
- Backlit keypad.
- Convenient inside light.

### How does UL-listing benefit you?

The exclusive UL-1037 listing achieved by Elsafe's in-room safes gives you added assurance that your guests' valuables are receiving the maximum level of protection possible. Not only does this protect your guests' property, it also protects your property's valuable reputation.



# Electronic Safes

## Zenith

The choice of in-room electronic safes becomes easy when you can choose Elsafe Zenith to secure your guests' belongings. Zenith is advanced and economical security, with the industry's leading audit trail system that allows you to print out comprehensive reports on all safe activities.

- Industry-leading audit trail.
- Backlit keypad.
- Internal light.
- Spring-loaded door.
- Anti-tamper labyrinth.
- Unique triangular locking bolt reinforcement.
- Easy outside battery change
- Change internal light to Convenient inside light.

### Zenith safes options

Zenith is available in many sizes and models to complement your room regardless of style and need.

#### Zenith Drawer

Zenith Drawer is the ideal solution for hoteliers who want to maximize convenience for their guests and encourage use of the in-room safe. It provides superior design flexibility, allowing for placement inside drawers, cupboards...or anywhere in the room that it is most accessible and easy for guests to use.



#### Zenith Standard

The standard Zenith (ZD27/ZD43/ZDWI) can accommodate up to 17" laptop and meets any guestroom space limitation and location requirement.





With Zenith safes you have the perfect option for each corner of your room.

### Zenith In Wall

Zenith In-Wall Safe is the ideal solution for hotels that need to maximize limited guestroom space. Zenith In-Wall Safe fits perfectly on any cupboard, armoire or closet wall as well as on the guestroom wall.



### Zenith Floor

Zenith Floor is a large size safe mounted to the floor that provides ample storage space for exclusive suites and back offices.



# Electronic Safes

## Comparison Table

	Infinity II Series	Sentinel II Series	Zenith Series
UL-Listed	UL 1037	UL 1037	No
Audit log	Yes	Yes	Yes
Flash memory	Yes	Yes	Yes
Reprogrammable config.	Yes	Yes	Yes
ADA complaint keyboard	Yes	Yes	Yes
User operation	4 or 6 digit	4 digits	4 digits
LED display	Yes	Yes	Yes
Backlit keypad	Blue	Green	Green
Internal light	Yes	Yes	Yes
Power supply	5 AA batteries	5 AA batteries	5 AA batteries
Low battery warning	Yes	Yes	Yes
Easy external battery change	Yes	Yes	Yes
Spring-loaded door	Yes	Yes	Yes
Laptop compatible	Yes, up to 17" laptop Infinity 49	Yes, up to 17" laptop Sentinel 49	Yes, up to 17" laptop with Wide, in Wall and Floor
Service unit	Safelink & Pinkey	Safelink & Pinkey	Safelink & Pinkey
Supports IR communication	Yes	Yes	Yes
Anti-tamper labyrinth	Yes	Yes	Yes
Anti-tamper switch	Yes	Optional	Optional
Audio feedback	Yes	No	Yes
Internal carpet	Yes	Yes	Yes
Locking method	Shut & lock push button	Shut & lock push button	Lock push button
Locking mechanism	Interlocking deadbolt mechanism	Interlocking deadbolt mechanism	18 mm solid bolt
Door Construction	One piece cold pressed curved door	One piece cold pressed curved door	Flat steel door
Wireless RF online communication	Optional	Optional	Optional
Rental mode	Optional	Optional	Optional
Internal power outlet	Optional	Optional	Optional
RFID interface	Optional	Optional	No

# Electronic Safes

## Additional Information

### Colors

	Infinity II Standard	Infinity II Option 1	Infinity II Option 2	Sentinel II	Zenith Drawer/Floor/In Wall	Zenith 27/43/Wide
Body color:	Black	White	Black	Black	Black Gray / Ivory	Black Gray / Ivory
Frame:	Glossy black	Glossy white	Gold	Grey	N/A	Black Gray / Ivory
Front:	Glossy black & polished chrome ellipse	Glossy white & polished chrome ellipse	Gold & polished chrome ellipse	Silver	Grey/Ivory	Black Gray / Ivory
Color preview:						

### Dimensions

		Infinity II 25	Infinity II 41	Infinity II 49	Sentinel II 25	Sentinel II 41	Sentinel II 49
External dimensions (h/w/d) incl. keypad	mm	206/437/260	206/437/421	206/437/502	206/437/260	206/437/421	206/437/502
	inches	8 <sup>1</sup> / <sub>8</sub> /17 <sup>3</sup> / <sub>16</sub> /10 <sup>3</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>8</sub> /17 <sup>3</sup> / <sub>16</sub> /16 <sup>5</sup> / <sub>8</sub>	8 <sup>1</sup> / <sub>8</sub> /17 <sup>3</sup> / <sub>16</sub> /19 <sup>13</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>8</sub> /17 <sup>3</sup> / <sub>16</sub> /10 <sup>3</sup> / <sub>16</sub>	8 <sup>1</sup> / <sub>8</sub> /17 <sup>3</sup> / <sub>16</sub> /16 <sup>5</sup> / <sub>8</sub>	8 <sup>1</sup> / <sub>8</sub> /17 <sup>3</sup> / <sub>16</sub> /19 <sup>13</sup> / <sub>16</sub>
Internal dimensions (h/w/d)	mm	196/428/168	196/428/330	196/428/411	196/428/168	196/428/330	196/428/411
	inches	7 <sup>11</sup> / <sub>16</sub> /16 <sup>13</sup> / <sub>16</sub> /6 <sup>9</sup> / <sub>16</sub>	7 <sup>11</sup> / <sub>16</sub> /16 <sup>13</sup> / <sub>16</sub> /13	7 <sup>11</sup> / <sub>16</sub> /16 <sup>13</sup> / <sub>16</sub> /16 <sup>3</sup> / <sub>16</sub>	7 <sup>11</sup> / <sub>16</sub> /16 <sup>13</sup> / <sub>16</sub> /6 <sup>9</sup> / <sub>16</sub>	7 <sup>11</sup> / <sub>16</sub> /16 <sup>13</sup> / <sub>16</sub> /13	7 <sup>11</sup> / <sub>16</sub> /16 <sup>13</sup> / <sub>16</sub> /16 <sup>3</sup> / <sub>16</sub>
Door dimensions (h/w)	mm	148/320	148/320	148/320	148/320	148/320	148/320
	inches	5 <sup>13</sup> / <sub>16</sub> /12 <sup>5</sup> / <sub>8</sub>	5 <sup>13</sup> / <sub>16</sub> /12 <sup>5</sup> / <sub>8</sub>	5 <sup>13</sup> / <sub>16</sub> /12 <sup>5</sup> / <sub>8</sub>	5 <sup>13</sup> / <sub>16</sub> /12 <sup>5</sup> / <sub>8</sub>	5 <sup>13</sup> / <sub>16</sub> /12 <sup>5</sup> / <sub>8</sub>	5 <sup>13</sup> / <sub>16</sub> /12 <sup>5</sup> / <sub>8</sub>
Internal volume	liters	14,1	27,7	34,5	14,1	27,7	34,5
	cu ft	0,50	0,98	1,22	0,50	0,98	1,22
Weight	kg	11,6	15,1	17,4	11,6	15,1	17,4
	lb	23,8	33,3	38,4	23,8	33,3	38,4

		Zenith Standard ZD 27	Zenith Standard ZD 43	Zenith Wide ZD WI	Zenith Drawer ZD 15	Zenith Drawer ZD 17	Zenith Floor ZD FL	Zenith In Wall ZD IW
External dimensions (h/w/d) incl. keypad	mm	191/354/270	191/354/432	191/460/417	131/400/350	131/460/350	536/355/457	469/418/170
	inches	7 <sup>33</sup> / <sub>64</sub> /13 <sup>15</sup> / <sub>16</sub> /10 <sup>41</sup> / <sub>64</sub>	7 <sup>33</sup> / <sub>64</sub> /13 <sup>15</sup> / <sub>16</sub> /17	7 <sup>33</sup> / <sub>64</sub> /18 <sup>1</sup> / <sub>8</sub> /16 <sup>27</sup> / <sub>64</sub>	5 <sup>1</sup> / <sub>16</sub> /15 <sup>3</sup> / <sub>4</sub> /13 <sup>13</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>16</sub> /18 <sup>1</sup> / <sub>8</sub> /13 <sup>13</sup> / <sub>16</sub>	21 <sup>1</sup> / <sub>8</sub> /14 <sup>1</sup> / <sub>8</sub>	18 <sup>1</sup> / <sub>2</sub> /16 <sup>1</sup> / <sub>2</sub> /6 <sup>5</sup> / <sub>8</sub>
Internal dimensions (h/w/d)	mm	188/351/200	188/351/361	188/457/345	62-124/397/347	62-124/457/347	500/349/371	400/350/95
	inches	7 <sup>3</sup> / <sub>8</sub> /13 <sup>13</sup> / <sub>16</sub> /7 <sup>7</sup> / <sub>8</sub>	7 <sup>3</sup> / <sub>8</sub> /13 <sup>13</sup> / <sub>16</sub> /14 <sup>7</sup> / <sub>32</sub>	7 <sup>3</sup> / <sub>8</sub> /18 <sup>1</sup> / <sub>8</sub> /13 <sup>19</sup> / <sub>32</sub>	2 <sup>7</sup> / <sub>16</sub> -4 <sup>7</sup> / <sub>8</sub> /15 <sup>5</sup> / <sub>8</sub> /13 <sup>11</sup> / <sub>16</sub>	2 <sup>7</sup> / <sub>16</sub> -4 <sup>7</sup> / <sub>8</sub> /18 <sup>1</sup> / <sub>8</sub> /13 <sup>11</sup> / <sub>16</sub>	19 <sup>11</sup> / <sub>16</sub> /13 <sup>3</sup> / <sub>4</sub> /14 <sup>5</sup> / <sub>8</sub>	15 <sup>3</sup> / <sub>4</sub> /13 <sup>3</sup> / <sub>4</sub> /3 <sup>3</sup> / <sub>4</sub>
Door dimensions (h/w)	mm	140/295	140/295	140/400	400/350	460/350	460/226	390/300
	inches	5 <sup>1</sup> / <sub>2</sub> /11 <sup>5</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>2</sub> /11 <sup>5</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>2</sub> /15 <sup>3</sup> / <sub>4</sub>	15 <sup>3</sup> / <sub>4</sub> /13 <sup>13</sup> / <sub>16</sub>	18 <sup>1</sup> / <sub>8</sub> /13 <sup>13</sup> / <sub>16</sub>	18 <sup>1</sup> / <sub>8</sub> /8 <sup>15</sup> / <sub>16</sub>	15 <sup>1</sup> / <sub>2</sub> /11 <sup>4</sup> / <sub>5</sub>
Internal volume	liters	13	24	31,5	13,5	16,1	66	17,5
	cu ft	0,46	0,84	1,11	0,48	0,57	2,33	0,61
Weight	kg	7,8	10	12	8,27	9,4	36,2	20
	lb	16,8	21,6	26,5	18,23	20,72	79,8	44





## 5. Orion Energy Management System

Today, energy is the second highest cost for the hospitality industry. Most of this cost is wasted keeping guestrooms A/C at full speed, even though the guest is not in the room for most of the day.

An intelligent Energy Management Solution will allow you to increase the efficiency of your A/C system and therefore dramatically reduce your energy bill and improve your bottom line.

# Orion Energy Management System

## Features and Benefits

Reducing energy cost should not compromise your guests' comfort. You can't allow guests to find their rooms either too warm or too cold when they return. By completely switching off all in-room electricity, hoteliers will increase savings but can also impact the satisfaction of their guests.

An intelligent Energy Management Solution will take control of the room temperature when the rooms are not occupied, never allowing the room to become too warm or too cold. As soon as guests return to their rooms, the system automatically returns to the guest's temperature settings.

### Benefits of Orion

- Lower your energy costs.
- Take control of property energy consumption
- Generate system reports to keep control of property's savings, occupancy, summaries and more.
- Improve your green initiatives and contribute to reducing global warming impact.
- Flexible settings to fit all types of properties and climates.
- Adaptive to your needs with flexible installation alternatives.
- Integration option towards Visionline allowing one system to control everything from EMS to access control.
- Easy and user-friendly for guests to control room temperature.
- Ensuring guest comfort by maintaining a stable temperature when the guest is absent.



# Orion Energy Management System

## System Components

Orion assists with energy savings, improving your green initiatives while ensuring guest comfort. Depending on your properties HVAC requirements, there are several components that may be necessary.

### Orion thermostat

Wall-mounted intuitive digital room temperature controllers for easy use. The thermostat controls the A/C and communicates with the motion sensor and door switch to set the room temperature.

Orion Thermostat - LV is only compatible with low voltage  
Orion Thermostat - HV is only compatible with high voltage

### Orion motion sensor

With Orion's motion sensor, guest presence is detected and signals are sent to the thermostat which controls the A/C. During occupancy the A/C will run on guests' temperature preferences. As the guest leaves the room, the hotel preferences will take over and turn the room into standby mode. As the room will always have a stable temperature, energy consumption and costs are reduced.

Orion already includes an integrated motion sensor.

### Orion door switch

With an additional door switch, the Orion solution in communication with motion sensor and thermostat determine room status change and whether or not the guest is in the room.



Orion Thermostat - HV



Orion Thermostat - LV



Orion Motion Sensor



Orion Door Switch

Reduce  
your hotel  
monthly  
bill.

# Orion Energy Management System Installation Alternatives

Depending on what your property needs, Orion offers several installation alternatives:

## 1. Offline installation

A standalone Orion solution where the thermostat, motion sensor and door switch communicates only inside the room. The thermostat, together with the motion sensor and door switch, determine the guest occupancy and take control of room temperature based on the presence of the guest.



## 2. Wireless online EMS with Visionline

Online installation where Orion software is integrated with Visionline. You get total control of EMS, VingCard locks and Elsafe safes in one single system. Motion sensor and lock communicates with thermostat to ZigBee network, via gateways and to the Visionline server.



	Standalone System	Visionline Online
Accurate digital room temperature control	✓	✓
Controls most types of A/C systems "PTAC, FCU, etc."	✓	✓
Built-in humidity sensor	✓	✓
Intuitive design	✓	✓
Simple installation	✓	✓
Determines guest presence	✓	✓
Dynamic or static setbacks	✓	✓
Lowers A/C runtime by determining occupancy	✓	✓
Designed for new construction and retrofit applications	✓	✓
Integration with door switches	✓	No need
Real time remote status of:		✓
»» A/C Runtime		✓
»» Room occupancy		✓
»» Orion thermostat		✓
Remote control of room temperature		✓
Preventative maintenance schedules and reports		✓
Occupancy change notifications		✓
Savings reports		✓
Event notifications		✓
Maintenance alarms		✓
Low battery warnings		✓
Remote room temperature adjustment for welcome room set-ups		✓
Integration with Visionline electronic locks		✓
Utilizes robust secure Visionline network		✓
Uses integrated lock communication to accurately determine occupancy status, no need for door switch		✓
Manages guest/staff entry to monitor HVAC accordingly		✓





## 6. System & Software

Originally developed to maximize the networking capabilities of VingCard's industry leading electronic locking systems, Visionline allows your locks to communicate with the server via online radio frequency (RF), eliminating the need to manually encode keycards, cancel staff cards and check battery life.

Visionline is the only wireless, highly-secured and open standards-based platform to address the unique needs of low-power monitoring and access-control network applications. Operating on a reliable and secure platform like ZigBee provides increased reliability and performance at an affordable cost. In addition, the wireless network enables smooth interface and integration opportunities for other online devices, including safes, energy management systems and minibars.

## System & Software

# Visionline

Visionline is built on the ZigBee Standard ISO 802.15.4 high-security open platform, the only wireless, highly-secured and open standards-based platform to address the unique needs of low-power monitoring and access-control network applications. Operating on a reliable and secure platform like ZigBee provides increased reliability and performance at an affordable cost. In addition, the wireless network enables smooth interface and integration opportunities for other online devices, including safes, energy management systems and minibars.

- : More Security and Control
- : More Services to your Guests
- : More Efficient and Cost Effective Operations
- : More Efficient Front Desk Operations
- : More Efficient Engineering and Maintenance

### Visionline Options

Visionline is a highly flexible system that can consist of a combination of offline and online doors. Both wireless ZigBee and wired Ethernet can be used to create the most efficient system for your individual property needs. For Visionline wired online, PoE can be used as well.

Save  
Costs

Improve  
Security

Improve  
Efficiency

## Software Packages

Visionline is modular and consists of several different online modules that can be built as you prefer. These modules are Standard, Advanced, Communication, Safety, Online In-room Safe, Mobile Access, Loyalty program and Orion EMS.

### Standard Online Module

- : Central card cancellation
- : Remote audit trail
- : Low battery report
- : Extended stay
- : Room move
- : Auto check-out of guest card

### Orion EMS Module

- : Remote status of A/C usage, room occupancy, Orion thermostat
- : Preventative maintenance schedules and reports/ Event notification
- : Occupancy change notification, trends and reports
- : Saving reports
- : Remote room temperature adjustment for e.g.

### Advanced Online Module

- : Door ajar alarm
- : Inside opening audit trail
- : Wandering intruder alert
- : Sequential intruder alert
- : Block cards per user group and section
- : Live tracking of cards
- : Insert maintenance report card
- : Online passage mode activation

### Communication Module

- : SMS/E-mail alert
- : On screen alarm panels

### Loyalty Program Module

- : Remote check-in/check-out
- : Bypassing reception queues
- : Using RFID loyalty guest card

### Online In-room Safe Module

- : Warning if safe is locked upon check-out
- : Low battery warning
- : Mechanically opened alert
- : Clear safe memory warning
- : Automatic synchronization of date/time
- : Remote audit trail
- : Remote service reports

### Safety Module

- : Open doors from a central location<sup>1</sup>
- : Close doors from a central location<sup>1</sup>

### Mobile Access Module

- : Manages ASSA ABLOY Mobile Access credentials

1. Special conditions apply



# System & Software

## Features and Benefits

Visionline is available in both offline and online mode. In offline mode your property will benefit from a customized and flexible security solution without compromising security or convenience. The offline version allows you to upgrade at any time.

	Features	Benefits	Offline	Online
FRONTDESK OPERATIONS	Automatic access	Keycard automatically activated upon check-in.	✓	✓
	Room assignment	SMS/E-mail can be sent to guest in advance with room number.		✓
	Change room	Remotely re-assign a room to a guest,		✓
	Validation period	Keycards are automatically de-activated upon check-out.	✓	✓
	Extended stay	Guests may extend their stay remotely from the reception.		✓
	Card update station	In offline scenarios the guests can use the Automatic Card Update Station to update the card and get a room number.	✓	✓
GENERAL OPERATIONS	Various alarms	Reduce manual monitoring of the property.	✓	✓
	Online room management	Block users, cancel access, reassign rooms, etc.		✓
	System integration	Add on to the system to include other product solutions...	✓	✓
MANAGEMENT OPERATIONS	Customized reports	Define criteria to create in report.	✓	✓
	Automatic reports	Reports automatically sent by e-mail SMS to pre-defined users/groups.		✓
	Unlimited options	No limit in number of reports.	✓	✓
SECURITY OPERATIONS	Wandering intruder alerts	Automatically detect if someone is trying to use a card in multiple doors, this automatically cancels the keycard.		✓
	Sequential intruder alert	Automatically detect if there are at least 5 failed access attempts with the same card in the same door. E.g. if a guest is on the wrong floor, hotel can send someone to assist.		✓
	Automatic cancellation of keycards	By a press of a key the card will be cancelled in all online doors (both guest and master cards).		✓
	Block access to specific areas	Due to security issues, maintenance, etc.	✓ <sup>1</sup>	✓
	Track users	See the user's last registered location.		✓
	Door ajar alert	A message is sent to the server that a door is unclosed.		✓
MAINTENANCE OPERATIONS	Reporting cards	Use a customized card to report maintenance needed, e.g. "electrician needed".		✓
	Audit trail	Audit trails for the locks or safes can be downloaded from the Visionline server without going to the room.	✓ <sup>2</sup>	✓
	Maintenance report	Automatically generate maintenance reports and perform preventative maintenance, e.g. low battery.		✓
	Maintenance counters	Automatically detect in which rooms or areas maintenance is needed.		✓
CASHLESS ENVIRONMENT	Payment card	Use same keycard as payment method in restaurants, shops, etc.	✓	✓
	Counter	Use counters to limit the number of times guests can access certain areas, e.g. 10 visits to the pool.	✓	✓

1. The operation have to be done by programming lock by lock manually.  
 2. Audit trails are available by performing a read-out directly from the lock itself







## 7. Accessories

ASSA ABLOY Hospitality offers an extensive range of accessories and security hardware options to complement your hotel locking system and provide enhanced security.

These include such items as keycards and RFID carriers, as well as complementary hardware for cohesive guestroom design, such as bathroom locks, door retainers, door viewers. Back-of-house and facility access hardware, such as elevator controllers, exit devices and more are also included in our product range, and are designed to meet various standards. An overview of our comprehensive offerings is provided on the following pages.

## Accessories

# Radio Frequency Identification Technology

### Radio Frequency Identification, contactless technology

VingCard RFID electronic locks share the same technology together with the RFID safes from Elsafe. Our RFID locks offer the latest Radio Frequency Identification (RFID) technology with the most flexible platform for future applications:

- 13,56MHz technology.
- Compatible with following standards:
  - : ISO 14.443 A (MIFARE)
  - : ISO 14.443 B
  - : ISO 15.693
- Compatible with NFC (Near Field Communication) and BLE (Bluetooth Low Energy) Technology. NFC and BLE technology enable contactless communication between our electronic locks and cell phones equipped with NFC and/or BLE.

### Benefits with RFID technology:

- More Guest Satisfaction: Unmatched ease of use for guests of all ages. No need to insert the keycard.
- More Security: Anti-cloning technology for all guest and staff cards. Unlike magnetic strip whose keycards can be cloned, RFID technology allows powerful anti-cloning solution
- More Adaptability: RFID keycards and carriers adapt to any hotel style. You can choose from low cost guest cards, long lasting staff cards, wristbands and keyfobs to perfectly match different hotel types such as Business, Resort, Spa, All-inclusive payment).
- BLE Bluetooth Low Energy and NFC (Near Field Communication).
- More Information and Control: VingCard RFID electronic lock can write back information on staff RFID keycards for better information and management such as staff card audit trail, low battery status, cylinder tamper alarm.
- More Integration: You can integrate and interface VingCard RFID keycards with other applications at your hotel (loyalty programs, vendor payment, etc.)
- More Exclusivity: Provide a new experience for your customers and enhance the image of your hotel
- More Durability: VingCard RFID electronic lock components are sealed and provide better performance for outdoor use.
- More Selection: Provides access today to next generation technologies such as BLE Bluetooth Low Energy and NFC (Near Field Communication).
- More Standards: VingCard RFID electronic locks offer 4 technology standards in 1 electronic lock.

## RFID Carriers

ASSA ABLOY Hospitality offers a wide range of RFID carriers that are especially designed for different applications (for guests, staff or VIP guests) and give you the opportunity to enhance your guests' experience at your hotel.



**Keycard**



**Smartphone**



**Wristband**



**Keyfob**



# Accessories

## Wide Variety of Accessories to Enhance your System

### RFID Readers

#### RFID Remote Controller

This independent unit provides access control to common doors, such as parking, health clubs, conference suites, staff entrances or guest night entrances. VingCard Remote Controllers are fully compatible with all of VingCard's card locking systems.



#### RFID Elevator Controller

VingCard's Elevator Controller is designed to be built into the elevator panel and operates offline. The security level of the hotel will increase, as only guests with a valid keycard will have access to the elevators/floors.

The Elevator Controller is compatible with all of VingCard's card locking systems.



#### RFID Exit Device

Our Exit Device works with your VingCard electronic card locking system. This makes it possible to use encoded cards to control all guest and staff access to the building, while providing a panic exit device to satisfy all safety considerations for emergency exit. Opening the door from the inside is achieved by simply pushing the push bar.



### Mechanical Locks

#### Bathroom Locks

VingCard's Bathroom Lock has an occupancy indicator and a thumb turn, making it easy to change the lock case handing from left to right. The Bathroom Lock is delivered in Satin Chrome, Satin Brass, Polished Chrome and Polished Brass.



#### Mechanical Locks for Back of House

The VingCard 1000-series cylinder locks are designed to complement VingCard's electronic locks, ensuring uniform appearance in guestrooms and corridors.

- Available in ANSI and EURO.
- Staff key will fit into cylinder keyways.
- UL-fire listed.
- Finish Materials: Satin Chrome, Satin Brass, Polished Chrome, Polished Brass.



## Additional Items

### Door Viewer

ASSA ABLOY Hospitality high quality Door Viewer with glass lens has a super wide 200° all round clear angle of view. The to enhance your system is delivered in Satin Chrome or -Brass and Polished Chrome or -Brass.



### Door Retainer

ASSA ABLOY Hospitality Door Retainer prevents entry of intruders and increases the resident's safety. Is delivered in Satin Chrome or -Brass and Polished Chrome or -Brass.



### Energy Control Unit

ASSA ABLOY Hospitality offers a complete range of in-room Energy Control Units, the perfect combination for providing in-room comfort to your residents while, saving energy and money when they are away from their rooms.



### Locker Lock

The RFID Locker Lock is a contactless operated lock the ideal for spa and wellness centers, ski resorts, golf clubs, sport and gym centers and is fully compatible with VingCard RFID locking system.



### Polarbar Minibars

ASSA ABLOY Hospitality offers a wide range of minibars. For more information about Polarbar, please visit: [www.assaabloyhospitality.com](http://www.assaabloyhospitality.com)







## 8. Worldwide Service

Offering top-of-the-line customer service has always been a priority at ASSA ABLOY Hospitality. No matter where you are in the world or which product you are using, we dedicate ourselves to providing the best support and guidance, whenever you need it.

ASSA ABLOY Hospitality's extensive international network covers more than 166 countries giving us the ability to offer global sales and support for our customers. Our global network allows our valued customers to enjoy the benefits of worldwide resources, convenience of local service, and round-the-clock support 24 hours a day, 365 days a year \*. Our technical support technicians are available worldwide to answer any questions or concerns you may have, giving you the support you want when you need it most.

ASSA ABLOY Hospitality believes every customer is a customer for life, committing us to a partnership with all of our customers in the hospitality industry.

For more information on our Worldwide Service and local locations, visit our Service & Support page on our website: [www.assaabloyhospitality.com](http://www.assaabloyhospitality.com)

\* 24/7 support is subject to local service and maintenance contract terms. Please contact your local representative for local service hours.

ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-users needs for security, safety and convenience.

**ASSA ABLOY**

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