

Quantum Pixel+

with DIN mortise

Installation Manual

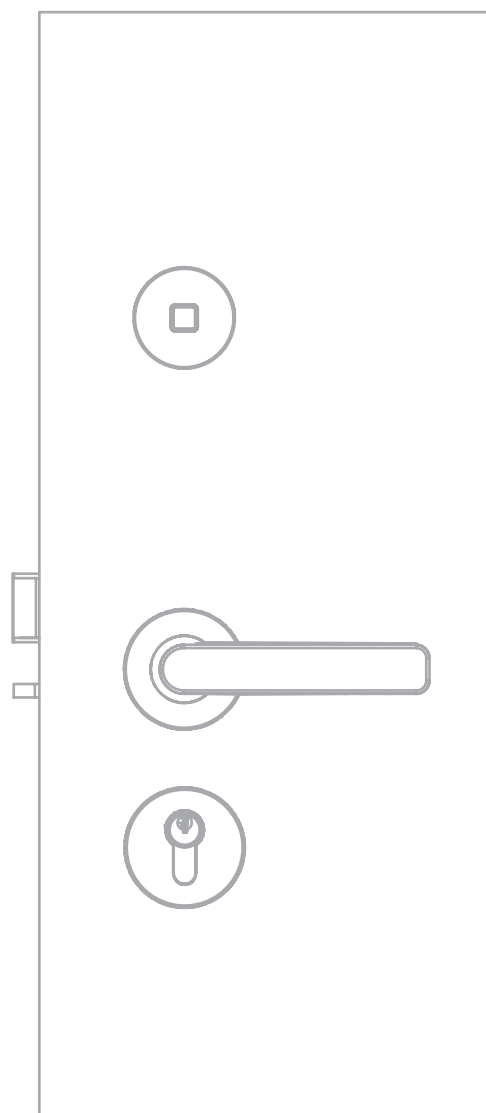


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1 Information about this document

1.1 Contents and purpose

This document describes the safe and efficient installation and commissioning of the Quantum Pixel+ electronic hotel lock.

1.2 Target group

This documentation is intended exclusively for specialist personnel.

A professional means someone who has had suitable technical training and has experience of the device's technology. Professionals are expected to use their training and experience to identify risks and minimize them as far as possible when carrying out the actions for themselves and others. It is the professional's responsibility to ensure that the conditions set out by the manufacturer as well as applicable regulations and standards are complied with when carrying out these actions.

1.3 Symbols used

1.3.1 Hazard category



WARNING

Indicates a potentially dangerous situation that can lead to serious body injuries or death.



NOTICE

Indicates a potentially harmful situation where the product or something in its environment could be damaged or result in a malfunction.

1.3.2 Symbols used



Application tips, useful information

2 Safety

2.1 Intended use



NOTICE

The product is only intended for use as described in this chapter. Any use beyond that is considered contrary to its designated use. The manufacturer cannot be held liable for damage resulting from such use.

The Quantum Pixel+ electronic hotel lock is designed to secure and control access to hotel rooms and similar areas. It is intended exclusively for use in hotels, lodging establishments, and similar facilities where regulated access for guests and employees is required.

The lock is suitable for use on interior and exterior doors, as well as doors in coastal regions. It can be used in new buildings as well as in the modernization of existing facilities. Installation may only be carried out on doors that meet the technical requirements of the product.

The Quantum Pixel+ supports RFID, NFC, and Bluetooth Low Energy (BLE) access methods and is compatible with the dormakaba Mobile Access solution and the Ambiance management software.

2.2 Improper use

- It is rated for exterior/oceanfront conditions if ordered properly
- The product must not be used if the environmental conditions specified in Technical data [\[► 3.2\]](#) are not met.
- The product needs to be ordered with one of the below application options to ensure proper function
 - Interior
 - Exterior
 - Heavy (Oceanfront)

2.3 General safety instructions



WARNING

Risk of injury due to heat generation, explosion, and fire

Improper handling of batteries (e.g. overheating, destruction, recharging, use of the battery in other products) can cause heat generation, explosion, and fire. This poses a risk of injury.

- Only use the battery types recommended and approved by dormakaba.
- Observe warnings on the batteries.
- Only use the batteries as intended.
- Pay attention to the correct polarity.
- Keep out of reach of children.



NOTICE

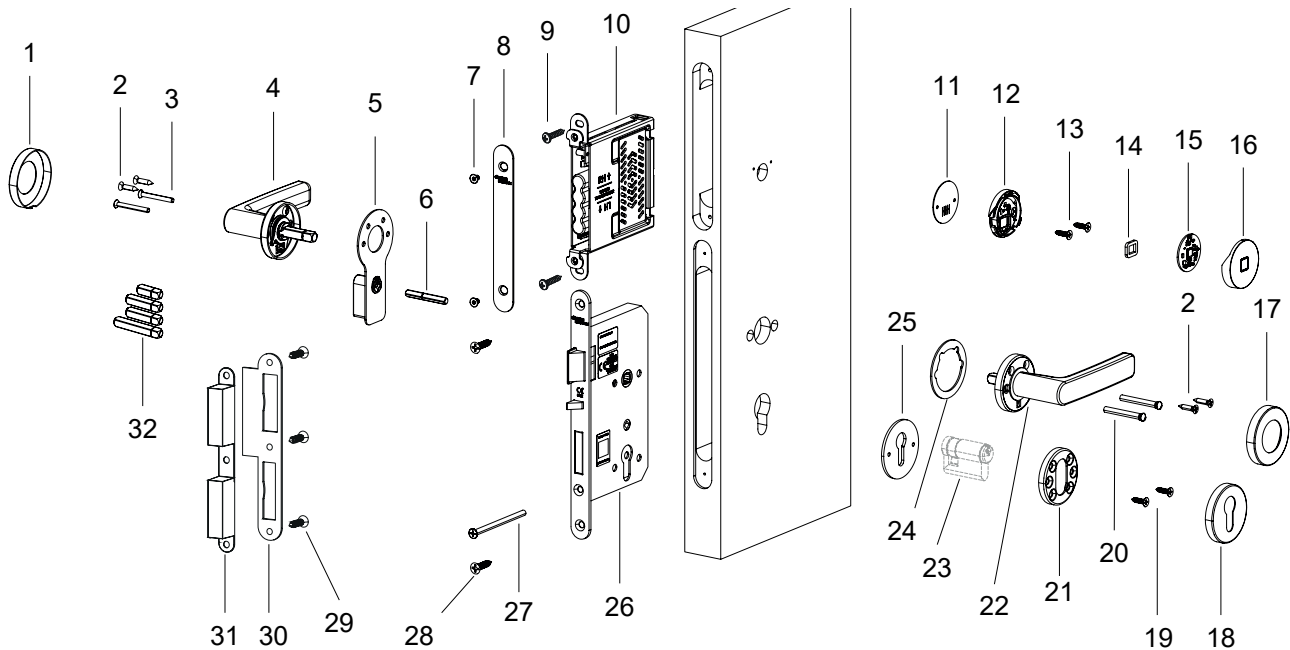
Risk of property damages due to electrostatic discharge

The component can be damaged by electrostatic discharge.

- Ground your body before touching the component.
- Use an ESD-safe tool.

3 Product description

3.1 Parts list



- | | | | |
|----|--|----|--|
| 1 | Inside lever rose | 17 | Outside lever rose |
| 2 | M4.2 x 19 mm Phillips flat head (optional) | 18 | Cylinder rose (optional) |
| 3 | M4 x 0.7 Phillips flat head (length varies) | 19 | #8 x 3/4" Phillips flat head (optional) |
| 4 | Inside lever assembly | 20 | Mounting post (length varies) |
| 5 | Thumbturn assembly | 21 | Rosette substructure (optional) |
| 6 | Turn piece spindle (various lengths)
36,55 / 44 / 51,5 / 59 / 66,5 mm | 22 | Outside lever assembly |
| 7 | #8-32 x 1 1/4 T-15 flat head screws | 23 | Half cylinder (must be ordered separately) |
| 8 | Controller plate | 24 | Outside lever gasket (optional) |
| 9 | #8 x 1 #2 Phillips pan head screws | 25 | Cylinder rose gasket (optional) |
| 10 | Lock controller | 26 | Mortise lock |
| 11 | Reader base gasket (optional) | 27 | Key cylinder mounting screw (not used if cylinder not installed) |
| 12 | Reader base | 28 | M4.2 x 25 mm wood screws or M5 x 25 mm combo Phillips flat head screws |
| 13 | #6 x 7/16 #2 Phillips flat head screws | 29 | M4.2 x 25 mm wood screws or M5 x 25 mm combo Phillips flat head screws |
| 14 | Reader PCB gasket (optional) | 30 | Strike plate |
| 15 | Reader PCB | 31 | Dust box |
| 16 | Reader cover | 32 | 9 mm Lever Spindles (various lengths and stamped with a letter)
(A) 30 mm / (B) 44,5 mm / (C) 60 mm |



All parts needed to install the Quantum Pixel+ lock are included with each unit. Please check to make sure all parts are accounted for before you begin the installation. Do not substitute any of the parts. The use of substitute parts will result in poor performance of the lock.

3.2 Technical data

Transmission frequency

Bluetooth:	2,4 GHz
NFC/RFID:	13,56 MHz
ZigBee (optional):	2,4 GHz

Environmental conditions

Protection class:	IP 54
Operating temperature:	-10 °C to 60 °C
Storage temperature:	10 °C to 25 °C
Relative humidity:	0 % to 85 % non-condensing humidity at 30 °C

Mechanical characteristics

Standard backset:	55 mm or 65 mm
Deadbolt:	20 mm throw deadbolt and 20 mm dead-locking latch bolt
Door thickness:	Suitable for door thicknesses of 40 - 100 mm
Weight:	Approx. 3 kg with hardware

Batteries

Type:	Battery Pack (PN A28110) 4 x AA cells
Voltage:	6 V
Capacity:	2500 mAh
Battery life:	up to 2 years

Door leaf

Max. door leaf weight:	200 kg
Max. door leaf width:	1300 mm
Max. door leaf height:	2500 mm
Protrusion of the door handle:	max. 100 mm (Class 2)

3.3 Conformity

3.3.1 EU Declaration of Conformity



This chapter is an extract from the full declaration of conformity.

dormakaba Deutschland GmbH
DORMA Platz 1
58256 Ennepetal
Germany

hereby declares that the product described complies with the provisions of the listed directive(s) and that the standards and/or technical specifications referred to below have been applied.

Directives:

2014/53/EU	Radio equipment
2014/30/EU	Electromagnetic compatibility
2011/65/EU	RoHS

The technical documentation is available from the Product Compliance Manager at:
product-compliance.dach@dormakaba.com

Harmonized European standard, national rule:

EN 14846:2008
EN 179:2008

3.3.2 FCC and ISED warnings

ISED non-interference disclaimer

This device complies with Industry Canada license-exempt RSS standard(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 of the device. This equipment complies with ISSED RSS-102 radiation exposure limits set forth for an uncontrolled environment. This transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement. Cet équipement est conforme avec ISSED RSS-102 des limites d'exposition aux rayonnements définies pour un environnement non contrôlé. Cet émetteur doit être installé à au moins 20 cm de toute personne et ne doit pas être colocalisé ou fonctionner en association avec une autre antenne ou émetteur.

FCC compliance 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:

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

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

RF exposure statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. To avoid the possibility of exceeding the FCC radio frequency exposure limits, this equipment should be installed and operated with minimum distance 20 cm between the antenna and your body during normal operation. Users must follow the specific operating instructions for satisfying RF exposure compliance.

3.3.3 Classification

	dormakaba Deutschland GmbH DORMA Platz 1 58256 Ennepetal Germany									
	0432-CPR-00026-108						26			
QTM DIN European Mortise	EN 14846:2008	3	S	E	0	H	3	1	2	
DOP_0196										

	dormakaba Deutschland GmbH DORMA Platz 1 58256 Ennepetal Germany									
	0432-CPR-00026-107						26			
QTM DIN European Mortise	EN 179:2008	3	7	6	B	1	4	5	2	A B/D
DOP_0196										

Requirements

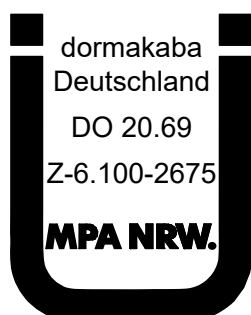
Category of Projection:	Projection up to 100mm (standard projection)
Field of Door Application:	Outwardly or inwardly opening single leaf door for emergency exit
Door Dimension Suitability:	1300 mm width
	2500 mm height
	200 kg of weight
Producer's Product Reference Number:	Quantum Pixel+ - PL1-XXXXXXXXXXXXXXXXX and PL1-FXXXXXXXXXXXXXXXXX
Information on the only approved components for use on escape/exit doors (operating elements, keepers, etc.):	See EN179 certificate



Only EN 179 compliant with **Emery-R** lever.

3.3.4 Ü mark (German conformity mark)

For use in Germany, the product bears the Ü mark (Übereinstimmungszeichen). The Ü mark confirms that the product conforms to the general building authority approval Z-6.100-2675 issued by the Deutsches Institut für Bautechnik (DIBt).



Manufacturer: dormakaba Deutschland GmbH

Approval number: Z-6.100-2675

Certification body: MPA NRW

The provisions of approval Z-6.100-2675 must be observed during installation and use.

4 Installation

4.1 Important information

For higher precision, it is recommended that doors are prepped at factory. Door preparation templates are available upon request.

4.2 Door Preparation Template

- IP-520109 - Door Prep - Pixel+ DIN Mortise Rebated Door
- DT-520109 - Door Template - Pixel+ DIN Mortise Rebated Door
- IP-520175 - Door Prep - Pixel+ DIN Mortise Non-Rebated Door
- DT-520175 - Door Template - Pixel+ DIN Mortise Non-Rebated Door



E Dimension $\geq$ 20mm, use upper reader position.

E Dimension $<$ 20mm, use lower reader position.

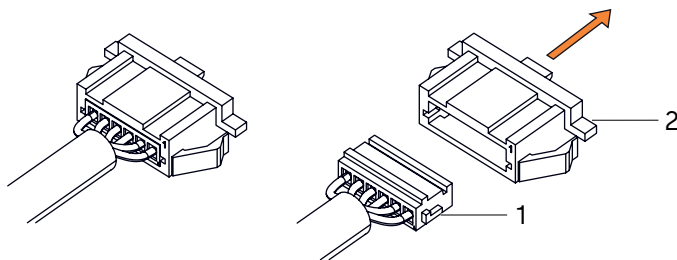
See Figure in Wiring controller assembly [▶ 4.4](#) and door templates for detailed information

4.3 Tools required

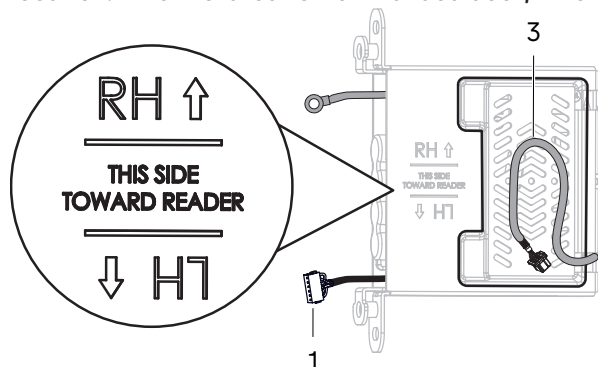
Driver handle (P/N: 24190)	Drill
#1 Phillips bit	2 mm drill bit
#2 Phillips bit	2,5 mm drill bit
#3 Phillips bit	3 mm drill bit
T-15 tamper resistant torx bit (P/N: A39250)	

4.4 Wiring controller assembly

1. Remove additional connector (2) that is connected to the controller wire harness (1) to assist with routing wires through the mortise pockets.



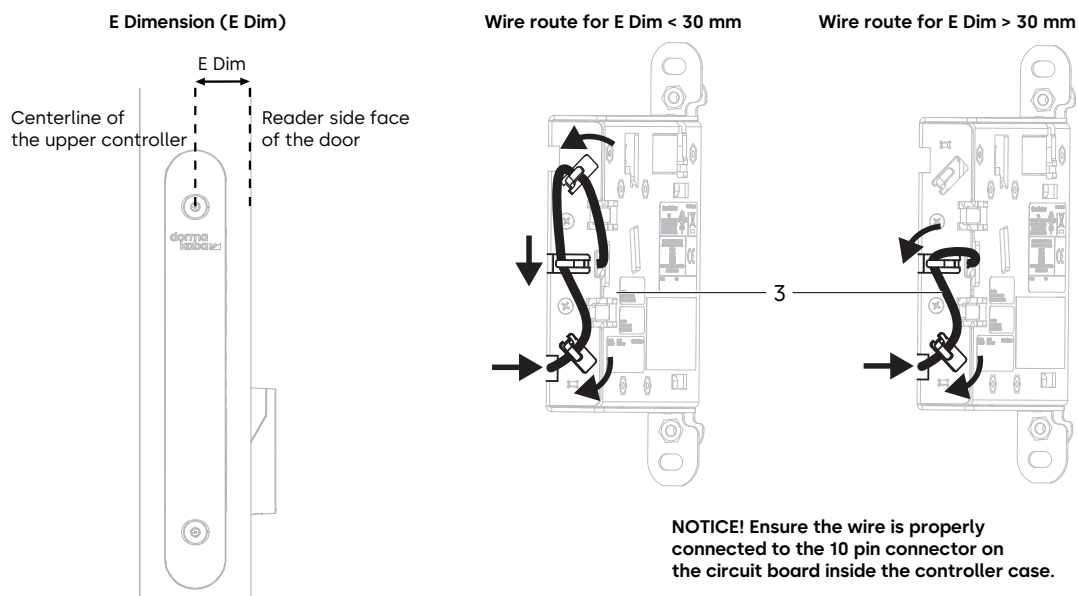
2. Align controller with upper door pocket in proper orientation with handing mark facing outside face of door and desired handing pointing up.
NOTICE! Controller is NOT handed. Controller wire harness will always exit case in same location. When rotated for left handed door, wire will be exiting top of case.



NOTICE! Handing mark is for ANSI handing!

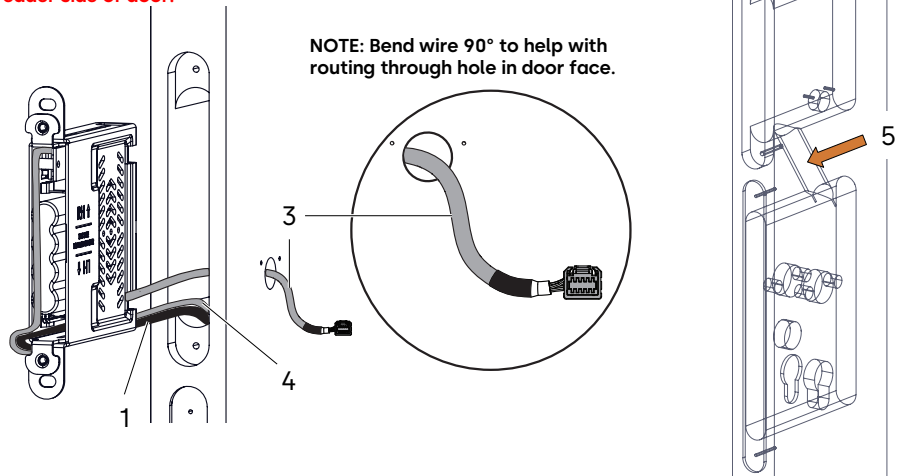
- ⇒ ANSI RH = DIN LH Inward
- ⇒ ANSI LH = DIN RH Inward
- ⇒ ANSI RHR = DIN RH Outward
- ⇒ ANSI LHR = DIN LH Outward

3. Route reader wire (3) through two tabs on back side of chassis, starting with middle tab and ending with bottom tab, by rolling wire under tabs.
4. Using a tool, bend tabs slightly over wire to hold it in place, ensuring not to damage wire.
NOTICE! Reader wire will always route through bottom tab regardless of handing. Only controller orientation will change.



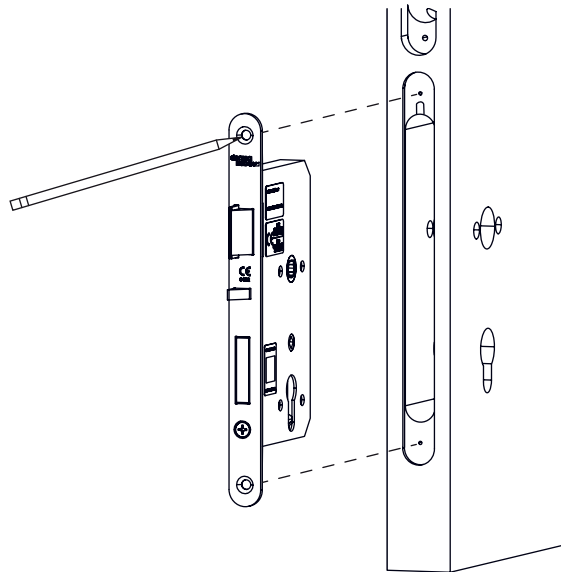
5. Feed wire harness (1) and ground wire (4) through the hole inside door pocket (5) to the lower mortise pocket while feeding reader wire (3) through hole in front of door face and continue pulling reader wire while inserting controller in upper door pocket.

NOTE: This side towards reader side of door.



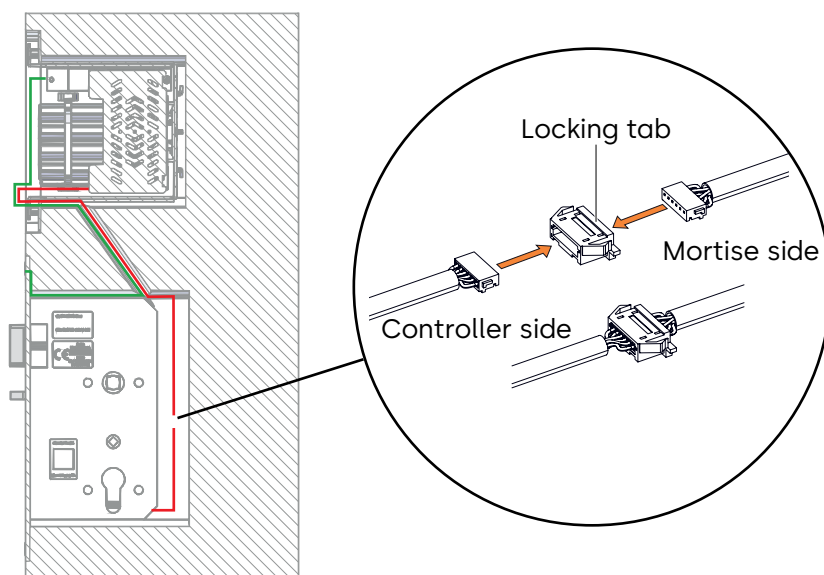
4.5 Installing lower mortise

1. Ensure ground wire relief is cut in door.
See door preparation template for more information.
2. Place mortise in lower door pocket and mark pilot hole locations based on case mounting holes if no drill holes have been made yet.

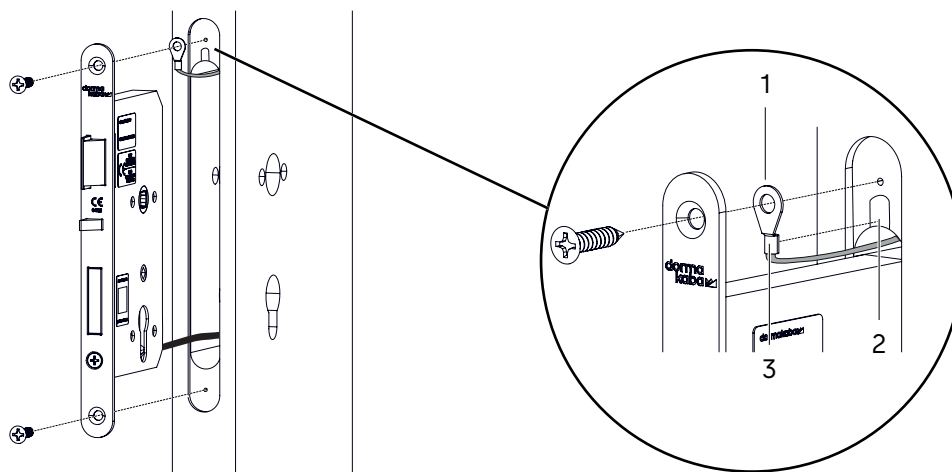


3. Pre-drill M4.2 screw pilot holes if no drill holes have been made yet.
4. Re-connect locking tab side of additional connector to mortise wire harness.

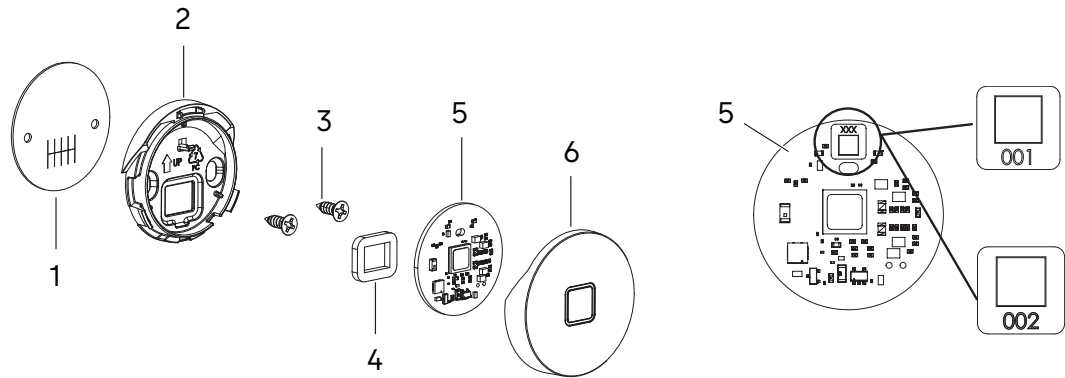
5. Connect harnesses from mortise and controller together as shown below.
WARNING! If you pull too hard on the wire that goes to the mortise section (and not the excess wire in the controller area), the connection can disconnect and will need to be removed to be re-connected.



6. Slide mortise into lower pocket.
7. Align ground wire lug (1) with wire crimp area into ground wire relief (2) near upper mounting screw hole as shown.
NOTICE! Align the crimped area (3) of the wire terminal with the relief in the door.
8. Secure mortise with included M4.2 x 25 mm wood screws or M5 x 25 mm combo screws (for metal doors).
WARNING! Take care not to pinch or damage any wires during installation, as this may lead to malfunctions.



4.6 Installing reader assembly



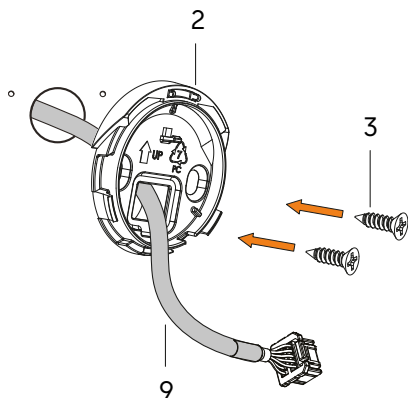
- | | | | |
|---|---------------------------------|---|---|
| 1 | Reader base gasket (optional) | 4 | Reader PCB gasket (optional) |
| 2 | Reader base | 5 | Reader PCB (Printed Circuit Board) |
| | | | 001 Label: Wood door PCB
(P/N: A38580-WD) |
| | | | 002 Label: Metal door PCB
(P/N: A38580-MT) |
| 3 | #6 x 7/16 flat head screws (x2) | 6 | Reader cover |



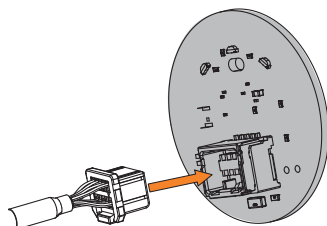
If reader PCB is installed on incorrect door type, keys will not read properly and lock may appear to not function. **Metal doors or installations with metal underplates require metal door reader PCB.**

Procedure

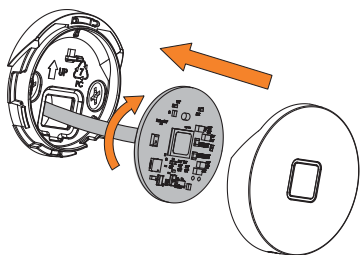
1. Thread reader wire (9) through square hole in reader base (2). If exterior door, install reader base gasket (1) between reader base and door.
2. Align reader base with pilot holes on door.
3. Secure reader base to outside of door using included #6 flat head screws (3).
NOTICE! Do not overtighten. Ensure base is fully seated against door.



4. Plug reader wire into reader PCB. If exterior door, ensure reader PCB gasket (4) is installed over reader wire connector before plugging into reader PCB.



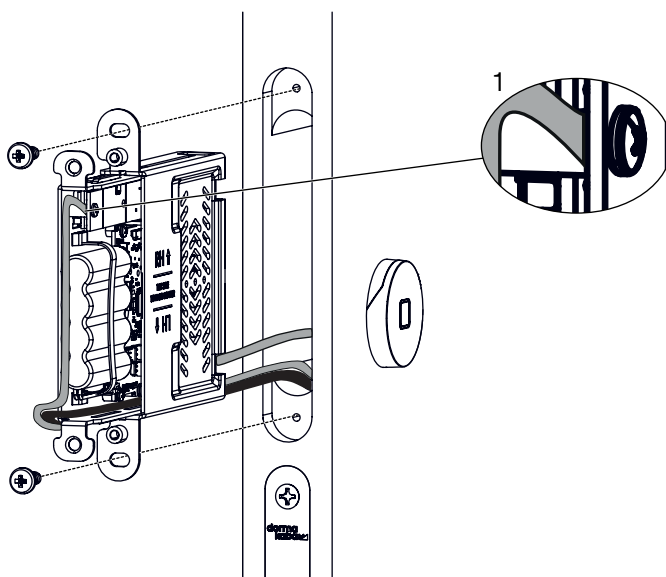
5. Push reader PCB secure with clip onto base while feeding excess wire into the door by twisting as shown in figure below and Wiring controller assembly [▶ 4.4](#) .



6. Attach reader cover by aligning tabs and pushing. Cover will snap on.
NOTICE! Arrows shown on reader base and cover should be pointing up.

4.7 Installing controller assembly

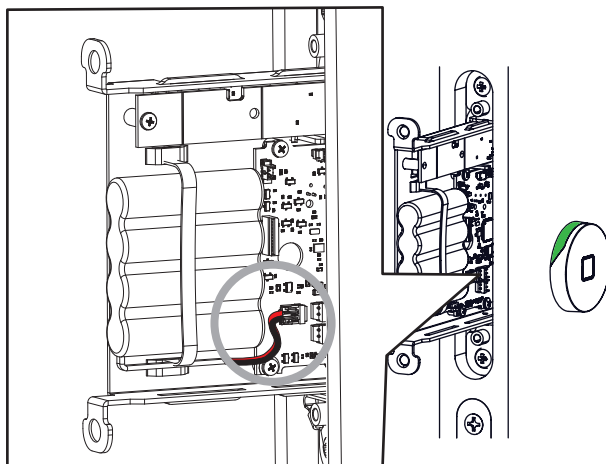
1. Lift controller to center vertically and horizontally in pocket and mark pilot hole locations based on case mounting holes if no drill holes have been made yet.
2. Pre-drill #8 screw pilot holes if no holes have been made yet, ensuring holes are centered for proper face plate alignment.
3. Slide tray out partially from controller to ensure tabs are not bent while securing #8 screws.
4. Connect ground wire to screw boss (1).
5. Lift and center assembly to ensure proper alignment.
6. Secure controller with included #8 pan head screws.



4.8 Powering up lock

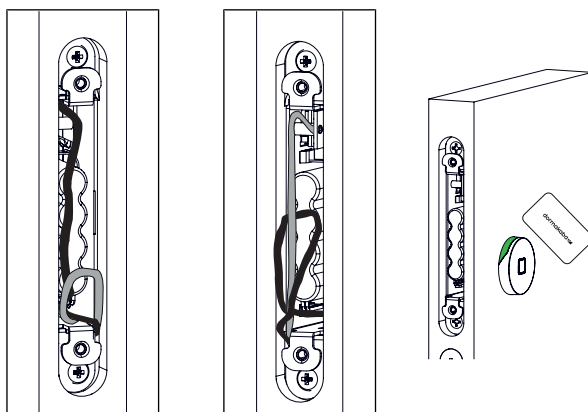
1. Connect battery to reader PCB as shown below.

⇒ Green LEDs should flash 4 times.



2. Present valid keycard to reader.

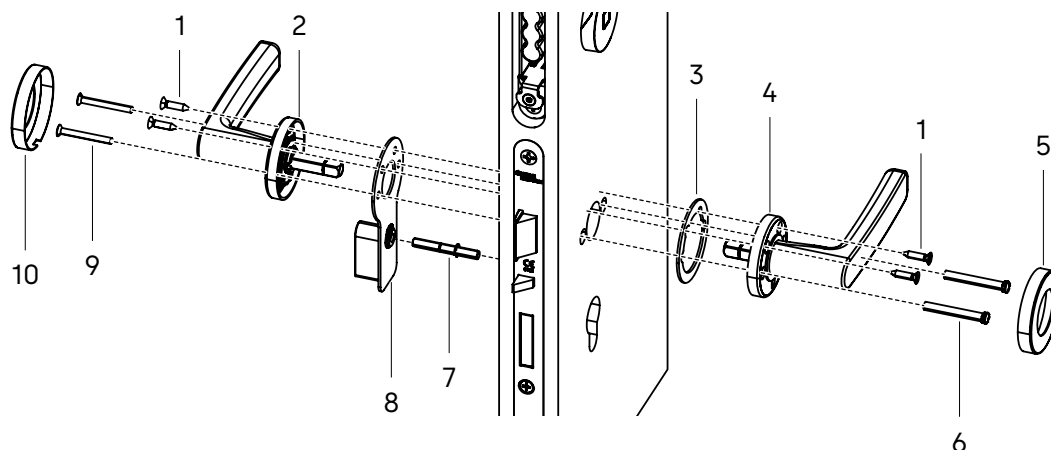
⇒ Red and green LEDs will flash and motor will activate.



Left hand door Right hand door

3. Seat tray into controller being careful to not pinch any wires.
NOTICE! Do not close door until fully assembled AND tested for proper operation.

4.9 Installing lever set and thumbturn



1	M4.2 x 19mm Phillips flat head (optional)	6	Mounting post (length varies)
2	Inside lever assembly	7	Turn piece spindle (various lengths) 36,55 / 44 / 51,5 / 59 / 66,5 mm
3	Outside lever gasket (optional)	8	Thumbturn assembly
4	Outside lever assembly	9	M4 x 0.7 Phillips flat head (length varies)
5	Outside lever rose	10	Inside lever rose

Notes

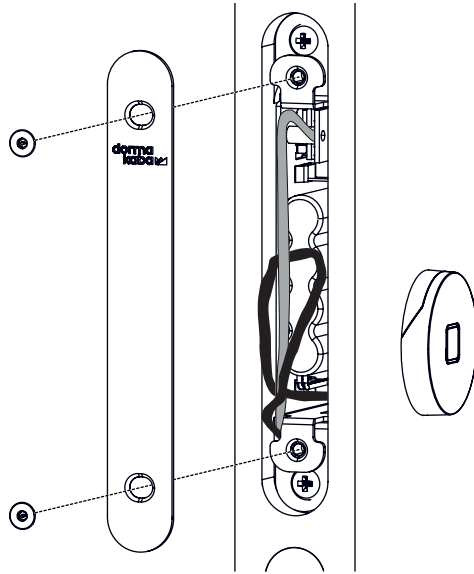
- If exterior door, install gasket over lever assembly posts before lever rose installation.
- Ensure that all mounting posts are installed on the locking side of the door.
- The lever mechanism is designed to rotate in only one direction. Before installation, verify that the lever is positioned on the correct side of the door to match the intended rotation.
- To ease installation, the outside lever can be pre-assembled with the mounting posts and rose to retain mounting posts during assembly process.
- Full-profile cylinders or cylinder-integrated thumbturns are not compatible with this product.

Procedure

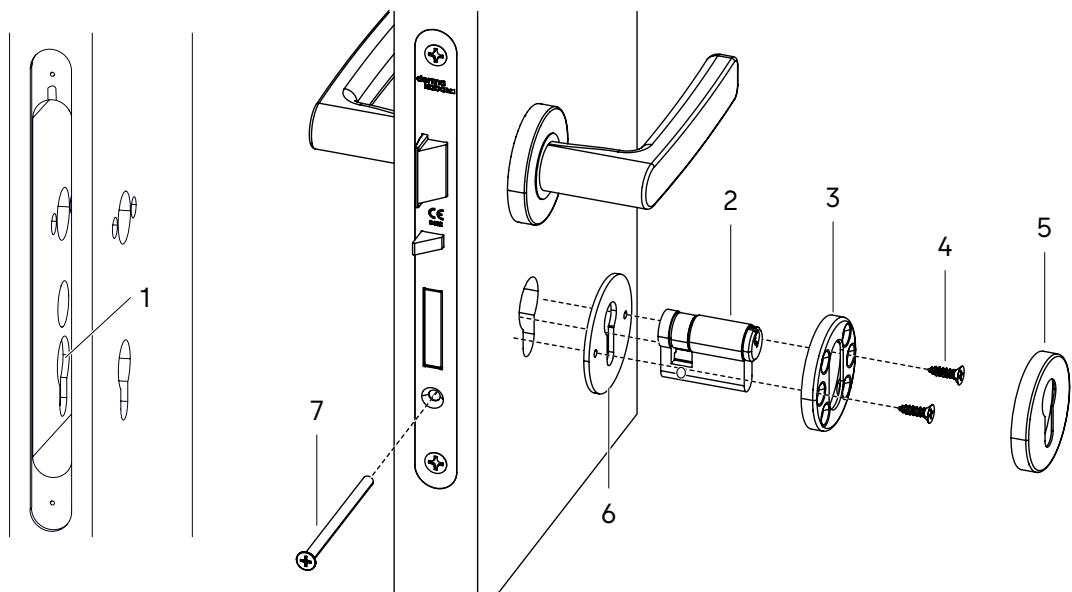
1. Place outside lever rose assembly on outside of door.
2. Install thumbturn spindle with short end into turnpiece as shown.
3. Align thumbturn assembly to inside lever assembly and hold on door.
4. Place inside lever rose assembly on inside of door.
5. Secure to outside rose assembly using included mounting screws ensuring lever is aligned horizontally and turnpiece is aligned vertically.
NOTICE! Hold inside and outside lever rose to door as the spring pressure could push them off the door.
6. Carefully slide lever roses over inside and outside levers and ensure removal notch is aligned below lever set for concealment, then fully seat rose over lever assembly.

4.10 Installing faceplate

1. Install upper controller assembly faceplate with #8 flat head screws.
NOTICE! Ensure controller harness does not become pinched when securing faceplates.
NOTICE! Do not close door until fully assembled AND tested for proper operation.



4.11 Installing half cylinder (optional)



- | | | | |
|---|--|---|---------------------------------|
| 1 | 3 mm cylinder relief | 5 | Cylinder rose |
| 2 | Half cylinder (must be ordered separately) | 6 | Cylinder rose gasket (optional) |
| 3 | Rosette substructure | 7 | Cylinder mounting screw |
| 4 | Mounting screws (x2) | | |

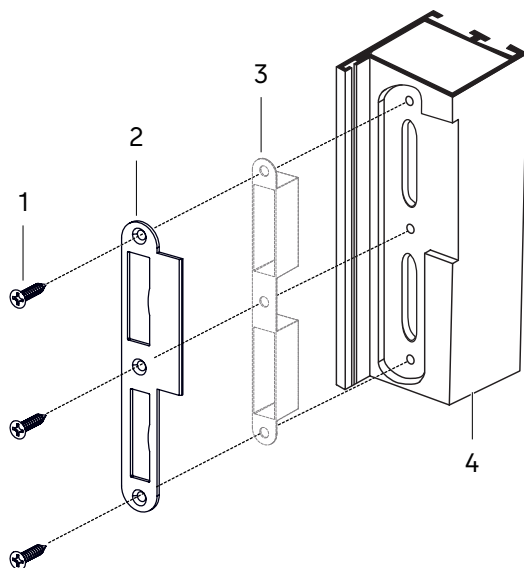
Procedure

1. Insert the key into the half cylinder.
2. Set the locking cam to neutral.
3. Insert the lock cylinder into the door lock and remove key to install.
NOTICE! If difficult to install, ensure 3 mm cylinder relief on inside mortise pocket is present. Do not mill through the relief completely.
4. Secure the half key cylinder with the mounting screw.
NOTICE! Screw only used with key cylinder. For installations without key cylinder, screw hole will remain open.

5. Slip the gasket over the lock cylinder.
6. Slip the rosette substructure over the lock cylinder and secure it with 2 screws, using pilot holes if not present.
7. Slip the cylinder rosette over the rosette construction.

4.12 Installing strike

1. Align strike plate (2) and optional dust box (3) with mounting holes in door frame (4).
2. Secure with M5 flat head screws (1).



5 Commissioning

5.1 Initial lock testing (Construction mode)

1. Present a valid opening key to the reader.
NOTICE! Do not close door until fully assembled AND tested for proper operation.
2. Ensure lock unlatches, lever turns freely, and lock re-latches.

5.2 Programming lock

1. Use HH6 to program lock to desired room number.
2. Refer to Maintenance Unit Programming Guide (PK3725).
3. If online communication, bind to hub per online communication binding process.
4. If using Hilton BLE, bind per Hilton BLE binding process.

5.3 Final lock testing

1. Present a valid opening key to reader.
2. Ensure reader flashes the green LED 8 times.
3. Ensure lock unlatches, lever turns freely, and lock re-latches.
4. With door open; throw deadbolt and activate privacy.
5. Present valid opening key to reader.
6. Ensure reader flashes the yellow LED 12 times.
7. Rotate inside lever to retract deadbolt and thumb turn.
8. Ensure I/S lever retracts smoothly.
9. Insert mechanical key into key cylinder and rotate both directions to ensure proper deadbolt projection and retraction, and latch bolt retraction without binding.

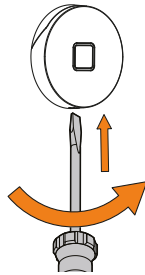
6 Troubleshooting

Standard LED indicators	
LED patterns/Problem observed	Function description/Potential cause
Red and green LEDs flash 9 times simultaneously	Time and date not set, use the HH6 to set
Yellow LED flashes 12 times	• Deadbolt is thrown • Mortise cable is not connected to controller • Deadbolt connector is not connected on MT6 main PCB • Cables are damaged
Yellow LED flashes 2 times	Keycard not allowed OR keycard cancelled by new keycard
Red and green LEDs flash alternately 9 times	Low battery (contact dormakaba customer service)
Yellow and red LEDs flash 2 times simultaneously	Bad keycard read or corrupted data (may require new keycard)
Reader wire is difficult to install into door during installation	Controller case may be installed in incorrect orientation with wire relief area facing inside of door instead of outside
No LED feedback when presenting keycard	• Battery is not connected • Reader PCB is incorrect model for door type (see 4.6 for details) • Battery needs to be replaced • Keycard chip type is disabled in software settings
Poor reading performance	Reader PCB is incorrect model for door type (see 4.6 for details)

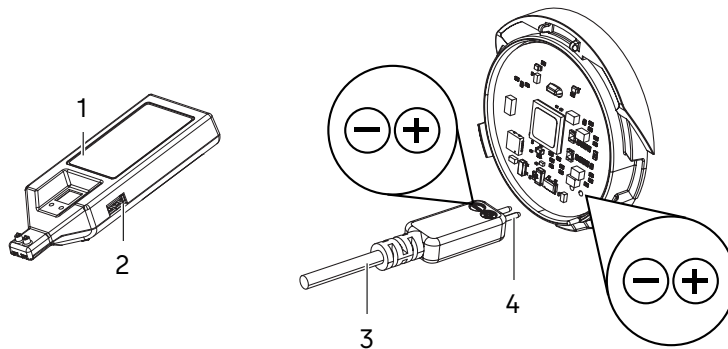
7 Maintenance

7.1 Removing reader cover

1. Insert approx. 3 mm x 100 mm long slotted screwdriver into slot on underside of reader.
2. Push screwdriver up until it can be felt seating between base and cover.
3. Slowly turn screwdriver until cover releases, creating a clicking noise.
NOTICE! Alternatively, insert screwdriver into slot and pull straight outwards to pull reader cover off door.



7.2 Emergency power override



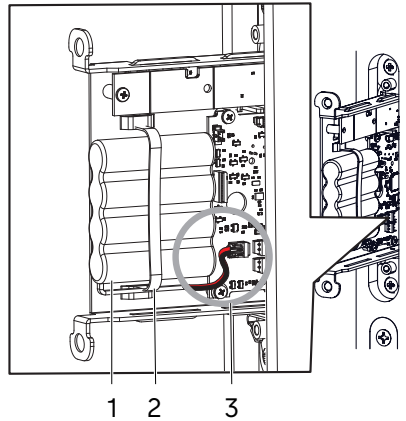
- 1 Battery backup device
(P/N: 118-515990)
- 2 USB slot

- 3 Adapter cable
(P/N: 71810)
- 4 Power override cable pins

Procedure

1. Insert adapter cable into USB slot (2) on backup device (1).
2. Remove reader cover as shown in Removing reader cover [▶ 7.1](#).
3. Insert power override cable pins (4) of the adapter cable (3) into holes in reader.
NOTICE! Match polarity (-,+) of pins to reader polarity.
4. Press and hold orange button on backup device to apply power to lock.
5. Allow time for lock to power up as normal.
6. Use opening key on door to gain access.
7. Release backup device button and disconnect from reader once access is gained.

7.3 Replacing battery pack



- | | | | |
|---|--------------------------------|---|--------------------|
| 1 | Battery pack (P/N: A28110-KIT) | 3 | Battery connection |
| 2 | Spring clip | | |

Procedure

1. Remove two upper controller faceplate screws.
2. Slide tray out to expose battery and connection and unplug battery from controller.
NOTICE! If you pull too hard on the wire that goes to the mortise section (and not the excess wire in the controller area), the connection can disconnect and will need to be removed to be re-connected.
3. Remove battery spring clip.
4. Replace battery pack and reattach spring clip.
5. Plug in battery and ensure harness connection wires are repositioned in case as in Powering up lock [\[▶ 4.8\]](#).
6. Slide tray back into door and reattach faceplate with screws.
7. Use HH6 to set time and date if not connected to online system that will automatically update it on power up.

7.4 Door unit inspection criteria

7.4.1 Appearance

- Finish is free of blemishes or scratches that would distract from lock appearance.
- Lock body and under plate (if used) are mounted straight on the door.
- Door scalp is mounted straight and flush with the door edge.
- Jamb strike is mounted straight and is flush with the jamb face.
- Correction of minor blemishes on the door jamb are the responsibility of the property's maintenance department.

7.4.2 Lock function

- Knob or lever rotates and moves freely.
- Lever is horizontal to floor when at rest position.
- Deadbolt extends fully and retracts without binding when door is open.
- Lock latch and dead bolt engage jamb strike plate freely.
- Depressing anti-pick latch when door is open prevents latch bolt from being depressed.
- Anti-pick latch is depressed when contact is made with the strike plate when door is closed.

7.4.3 Electronics/keycards

- Present keycard in front of reader, and the yellow light flashes twice when incorrect key-card is used.
- Green light flashes when the proper keycard is used.
- Green light is flashing when the lever is operated.
- Green light continues to flash for a five-second cycle.
- Yellow light flashes 12 times when the dead bolt is extended and a guest/hotel keycard is used.
- All keycards function to the specifications of the properties key design.

7.4.4 Door function

- Door closes and latches with little or no interference.
- Deadbolt extends fully through the strike plate without interference when door is closed.
- Spacing between door edge and inside door jamb does not exceed 3/16" when door is closed.



If bumpers or other seals are added after strike plate installation and causes alignment and latch problems, it is the property's responsibility to correct this condition. This note generally applies to new construction or new door installation.

8 Disassembly and disposal

Disassembly is carried out in the reverse order of mounting and must be carried out by qualified personnel.



The product must not be disposed of in domestic waste. Dispose of the product in an environmentally friendly manner at the collection points set up for this purpose. Refer to the statutory regulations for your country.

Notes

[illegible]



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