KEYLESS SOLUTIONS

KS150

Smart Deadbolt

Installation and set-up guide

Hinged doors



Code, card, key or app.

Keep this guide with the lock.

KEYLESS SOLUTIONS

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Before you start

Read this page first. If anything here is unclear, call us before you drill.

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You will need

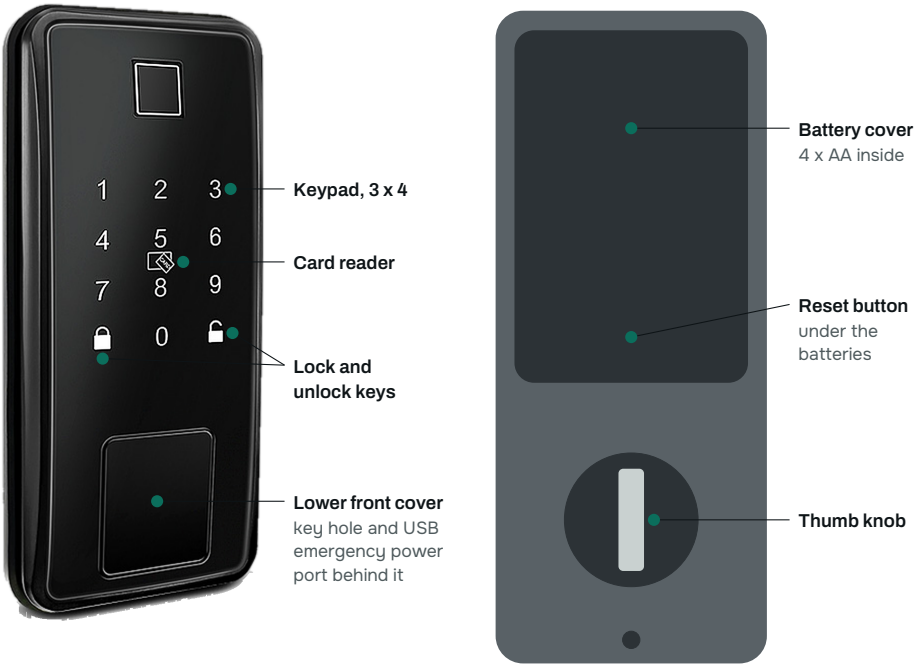
- Pencil and square
- Tape measure
- Drill, with a 54 mm hole saw
- A 15/16 in (23.8 mm) bit for the edge bore
- A bit for the bolt hole in the frame
- Sharp chisel for the faceplate and strike recesses
- Screwdrivers
- 4 x AA alkaline batteries
- A latch roller ball or a concealed magnet, if the door has neither (page 5)

Important

- Whoever will OWN the lock sets up the TTLock app. The account that adds the lock controls it, so an installer should never add it on their own phone.
- Straight out of the box the lock stays open: the thumb knob turns freely and it cannot lock until it has batteries or is added to the app.
- This is a deadbolt only, with no handle. The door must be held shut by a latch roller ball or a concealed magnet (page 5).
- Test the key, the code and the thumb knob with the door OPEN before you close it for the first time.
- The door must be flat and level where the two units sit.
- Peel the protective film off the keypad when you have finished.

Know your lock

The outside unit carries the keypad. The inside unit carries the batteries and the thumb knob.



OUTSIDE

INSIDE

Four ways in

Code	Card or tag	TTLock app	Key
on the keypad	held on the reader	beside the door	behind the cover

Away from home, the app can open the door and change codes through the Wi-Fi gateway, sold separately. Codes, cards and the key never need the internet.

In the box

Check every part against this list before you start.

Part	Qty
Outside unit, with the keypad	1
Inside unit, with the thumb knob	1
Mounting plate, with its silicone seal	1
Tubular deadbolt latch, 60 or 70 mm	1
Strike plate	1
Key cylinder, with its tailpiece	1
Posts F, joining the two units	3
Keys	2
Cards	2
Paper drilling template, in inches	1
Card drilling template and this guide	1 each

Screws

Screw	Length	Qty	Where it goes
A	20 mm, wood	5	Latch 2, strike plate 2, mounting plate top 1
B	20 mm	1	Inside unit, bottom
C	6 mm	2	Inside unit, top
D	10 mm	1	Key cylinder into the outside unit
E	45 mm	3	Mounting plate into the posts, 2 at the bottom

At the top of the mounting plate you can use an E in place of the A.

Keep the small screws together until the step that needs them. You also need 4 AA alkaline batteries (page 11).

Anything missing? Call us on 09 238 2377 before you start.

Check your door

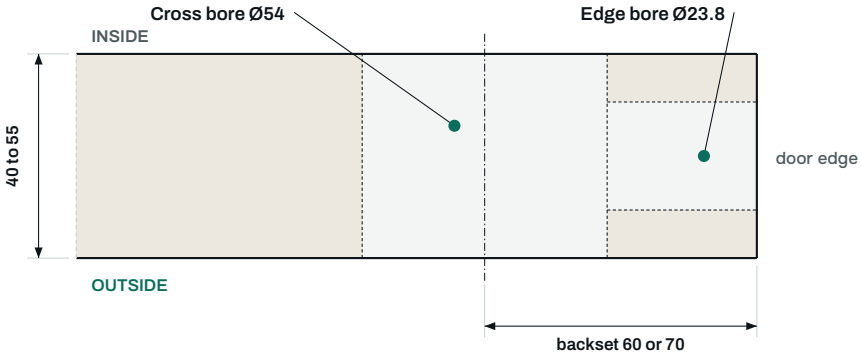
Thickness. The KS150 suits doors 40 to 55 mm thick. Thinner or thicker? Call us on 09 238 2377 before you drill.

Backset. The distance from the door edge to the centre of the cross bore. The latch sets to 60 mm or 70 mm: choose one before you mark the door.

Holes. A 54 mm cross bore through the door, a 23.8 mm edge bore into it for the latch, and a small upper hole for the top post, marked from the paper template in the box. Replacing an old deadbolt? Take it out first. Its holes can be used only if they match the card.

The door. A hinged door, flat and level where the two units sit. Not for sliding doors. Aluminium or steel door or frame? Call us before you drill.

Seen from above. Sizes in mm.

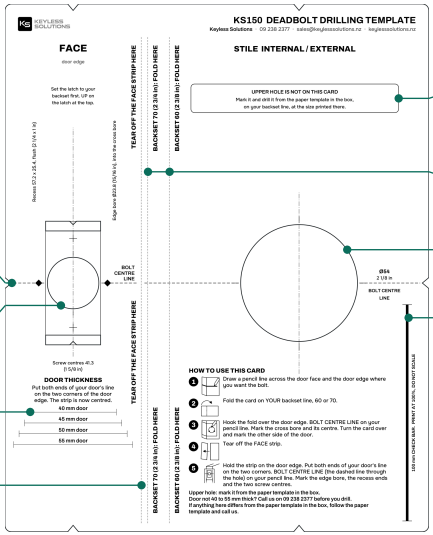


Hold the door shut

- The KS150 is a deadbolt only: no handle and no latch to keep the door closed.
- Use it with a latch roller ball or a concealed magnet that holds the door closed against the bolt. Install one if your door has neither.
- We specify one for consistent operation and to meet our warranty criteria. Not sure which to use? Ask us.

Mark the door

Use the card template that came with this guide. It is true size: never scale it. Its 100 mm check bar must measure exactly 100 mm.



BOLT CENTRE LINE

FACE: the edge bore, the recess ends and the two screw centres

DOOR THICKNESS lines

TEAR OFF THE FACE STRIP HERE

UPPER HOLE IS NOT ON THIS CARD: mark it from the paper template in the box

BACKSET 60 or 70: fold on YOUR backset line

STILE: the cross bore and its centre, on both sides of the door

100 mm CHECK BAR

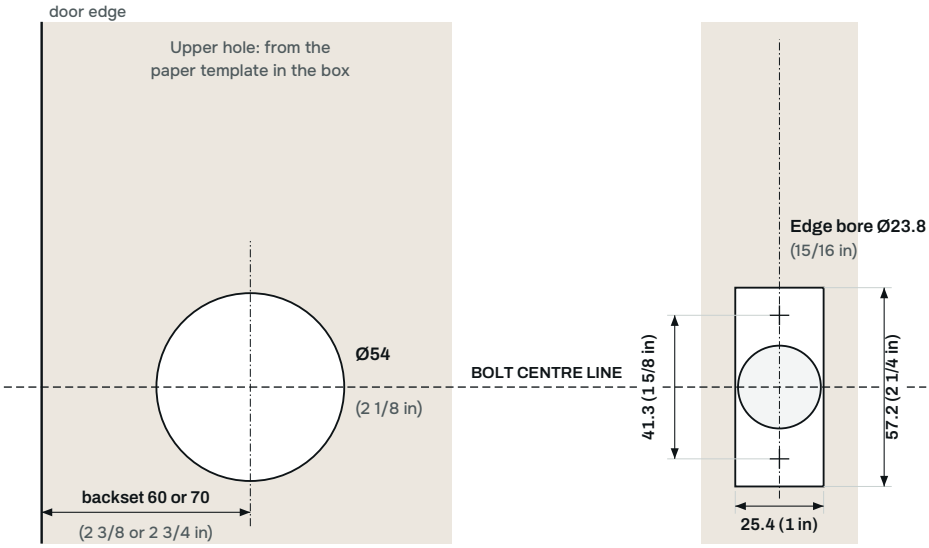
1. Draw a pencil line across the door face and the door edge where you want the bolt.
2. Fold the card on YOUR backset line, 60 or 70.
3. Hook the fold over the door edge. BOLT CENTRE LINE on your pencil line. Mark the cross bore and its centre. Turn the card over and mark the other side of the door.
4. Tear off the FACE strip.
5. Hold the strip on the door edge. Put both ends of your door's line on the two corners. BOLT CENTRE LINE (the dashed line through the hole) on your pencil line. Mark the edge bore, the recess ends and the two screw centres.

Upper hole: mark it from the paper template in the box.
Door not 40 to 55 mm thick? Call us on 09 238 2377 before you drill.

> **If anything here differs from the paper template in the box, follow the paper template and call us.**

Drill the door

All sizes in mm, with the inch figure from the paper template in the box beside it. The card marks all of this for you except the upper hole.



DOOR FACE, both sides DOOR EDGE

Cross bore. 54 mm hole saw, square to the door. Drill halfway from each face so neither side breaks out.

Edge bore. 23.8 mm (15/16 in), level and square into the middle of the edge, until it breaks into the cross bore.

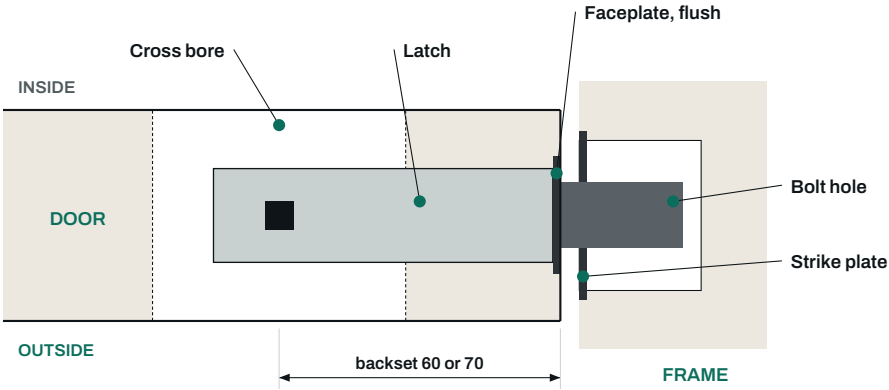
Faceplate recess. 57.2 x 25.4 mm (2 1/4 x 1 in), as deep as the faceplate, so it sits flush. Try the latch in place before any screw goes in.

Upper hole. Mark it from the paper template in the box, on your backset line, and drill it the size that template prints.

> **If anything here differs from the paper template in the box, follow the paper template and call us.**

Install the latch and strike

Seen from above, door shut. The bolt is drawn thrown into the frame.



1 Set the backset
Set the latch to 60 or 70 mm, the same line you folded the card on. Not sure how to change it? Call us on 09 238 2377.

2 Install the latch
Into the edge bore with UP on the latch at the top. Faceplate flush in its recess, two Screw A. The tailpiece slot must sit in the middle of the cross bore.

3 Mark the frame
Carry the bolt centre line across onto the frame. Close the door and mark the frame in line with the centre of the door edge. The bolt hole goes where the two lines cross.

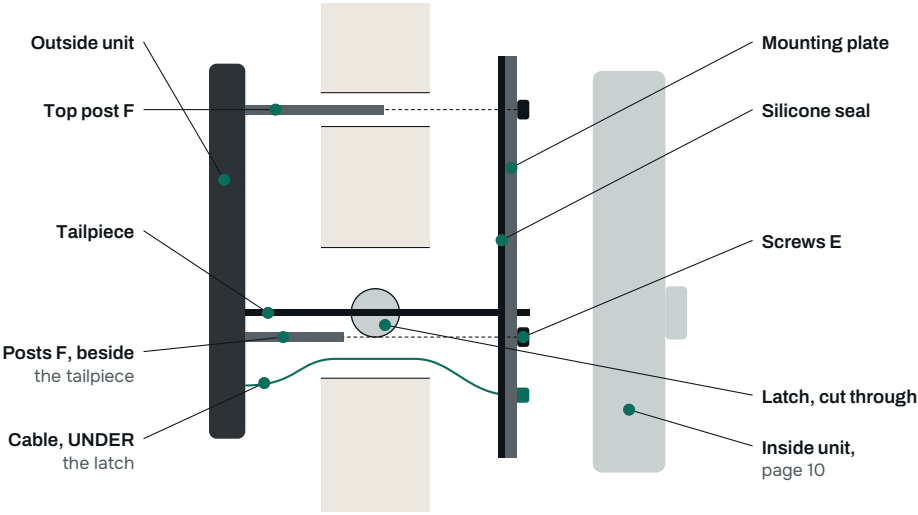
4 Strike plate
Hold it centred on your marks and draw round it. Recess it flush, then cut the bolt hole inside its opening, deep enough for the bolt to throw fully. Two Screw A.

5 Check it
The bolt must throw fully into the strike without the door being pushed or lifted. If it will not, move the strike, never the latch.

If anything here differs from the paper template in the box, follow the paper template and call us.

Install the outside unit

Cut through the door at the cross bore, outside on the left. Parts are drawn pulled apart so you can see the order.



1 **Prepare the outside unit**
On the bench, screw the three posts F into its back: one at the top, two beside the cylinder. Fix the key cylinder with Screw D.

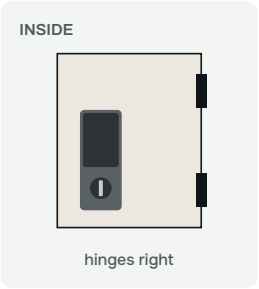
2 **Install it on the door**
Tailpiece level, with its 'This side up' face up, through the slot in the latch. Feed the cable in UNDER the latch. Top post into the upper hole.

3 **Mounting plate**
Inside, seal against the door, cable through the hole in the plate. Screw A or E at the top, two Screw E at the bottom, into the posts.

4 **Check before you tighten**
The bolt must throw and draw back smoothly. Then tighten, but not too hard: over-tight screws make the bolt bind.

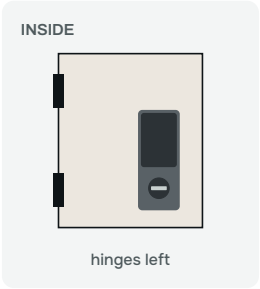
Handing and the inside unit

Stand INSIDE, facing the door. The lock on the left of the door is Left Open. The lock on the right is Right Open.





Left Open





Right Open

1. **Set the switch and the knob**
   On the back of the inside unit, set the L / R switch to L for a Left Open door or R for a Right Open door, and set the thumb knob as drawn above.

2. **Connect the cable**
   Bolt drawn back. Push the plug down into its socket on the inside unit until it is fully home.

3. **Install the inside unit**
   Onto the mounting plate: two Screw C at the top, one Screw B at the bottom. Push spare cable back into the door through the hole in the plate, so nothing is pinched.

4. **Test the knob**
   Turn the thumb knob 90 degrees each way. The bolt must run in and out smoothly.

A pinched cable

- A lock that works on the bench and fails later usually has a pinched cable. Take the inside unit off, push the spare cable back into the door and put it back.

Power up and test

Keep the door OPEN for every test on this page.

1. **Batteries**
   Slide the cover off the inside unit. Put in 4 good quality AA alkaline batteries, all new, the right way round. Slide the cover back on.

2. **The key**
   Open the lower front cover on the outside unit. Turn the key: the bolt must run in and out smoothly.

3. **The lock key**
   Touch the keypad to wake it and press the closed padlock key: the bolt should throw.

4. **The code**
   Unlock with the factory code in your lock's manual: the bolt should draw back.

5. **Now close the door**
   Only when all of the above work. Then set up the app (next page). Adding the lock switches the factory code off.

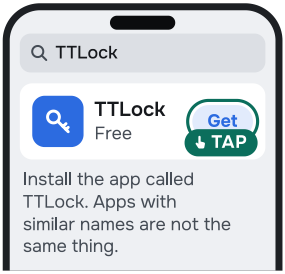
Flat batteries

- Battery life is about 8,000 unlocks, roughly 8 to 12 months. Change all four once a year anyway, with the door open, and never mix old and new.
- If they go flat, open the lower front cover and connect a USB power bank to the USB emergency power port. It powers the lock so your code or card works. It does not open the lock and does not charge the batteries. Then change all four.
- The key behind the same cover works without batteries. Keep a spare key somewhere you can reach without this door.

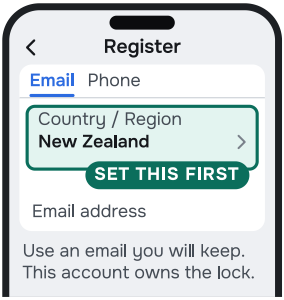
Set up the TTLock app

TTLock is free. Do this standing beside the lock with Bluetooth on, on the OWNER's phone.

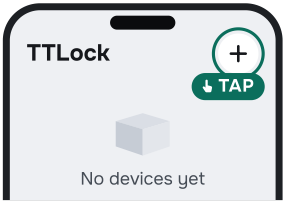
1. **Install TTLock**
   From the App Store or Google Play. Apps with similar names are not the same.
2. **Make an account**
   Your own email or mobile number, country New Zealand. This account owns the lock. Set your security questions when asked: a new phone must be verified later.
3. **Add the lock**
   Press +, choose Door Lock, then touch the keypad to wake the lock. Tap it when it shows a +.



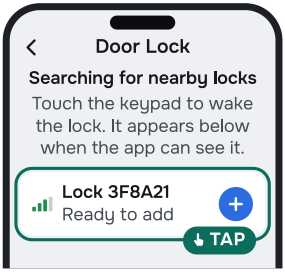
A Find TTLock



B Make an account



C Press +



D Wake it, tap +

4. **Name it**
   Front door, not Lock_1.
5. **Check the factory code is dead**
   Try to unlock with the factory code. It must not unlock the lock now.

App screens are illustrations redrawn by Keyless Solutions in September 2026. Yours may look slightly different.

Give people access

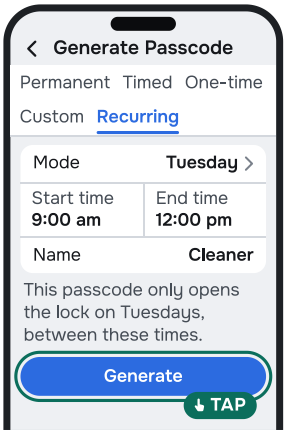
Everything here is done in the TTLock app by the owner.

Codes. 6 to 12 digits. Permanent, timed, one-time (6 hours) or recurring, for example a cleaner every Tuesday. You can also set your own. A new code must be used once within 24 hours of its start time.

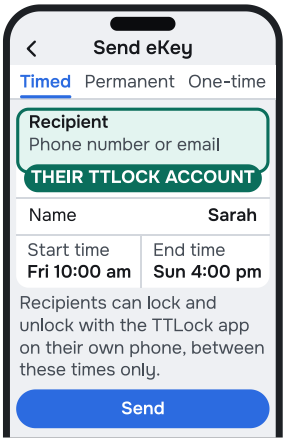
eKeys. For someone with the app on their own phone and their own TTLock account. Permanent or for set times.

Cards and tags. Two cards come in the box. Key tags and proximity dots work the same way. Enrol each one beside the lock and label it: one that is not enrolled opens nothing.

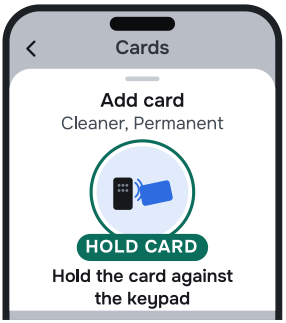
Administrators. Add other administrators and choose what each one can do.



Make a code

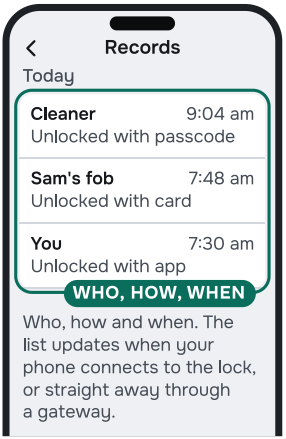


Send an eKey



Enrol a card

Records. See who came and went, how and when. Freeze or delete anyone at any time.



See who came in

Away from home

- Remote unlocking, remote code changes and records from anywhere need the Wi-Fi gateway, sold separately. It plugs in indoors within range of the lock. Codes, cards and the key never need the internet.

App screens are illustrations redrawn by Keyless Solutions in September 2026. Yours may look slightly different.

Everyday use and care

Code. Touch the keypad to wake it, then unlock with your code.

Card or tag. Hold it on the card symbol between the 5 and the 8.

Phone. Open TTLock beside the door and press the round button.

Key. Behind the lower front cover of the outside unit.

Locking from outside. Press the closed padlock key, or let auto lock do it if you have set it in the app.

From inside. Turn the thumb knob.

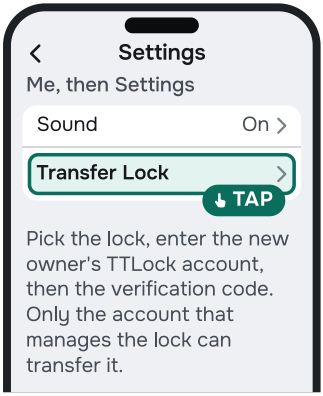
Care

- Batteries: good quality AA alkaline, all four at once, once a year.
- Keep the latch roller ball or magnet working: the bolt needs the door held shut against it.
- Clean with clean water or a mild cleaner on a soft cloth. Never spray anything onto the lock, and keep water out of the electronics.
- Lost a card or tag? Delete it in the app. Without the gateway you do this beside the lock.

Moving out or selling

It is the ACCOUNT that owns the lock, not the keys. Before settlement, transfer the lock in the app to the new owner's TTLock account.

If you cannot transfer it: delete the lock in the app while standing beside it, then do a factory reset (page 15) so the new owner can add it.



Settings, Transfer Lock

App screens are illustrations redrawn by Keyless Solutions in September 2026. Yours may look slightly different.

Reset and troubleshooting

Factory reset

- Delete the lock in the owner's app first, standing beside it.
- Slide the battery cover off the inside unit. The reset button is below the batteries.
- Press and hold it for 5 seconds, until two beeps.
- Every code and card is wiped and the factory code works again. Add the lock to the owner's account straight away.

If something is not right

New lock will not lock	It is still in factory state. Put in batteries and add it to the app.
The app will not add it	It is on someone else's account, often the installer's. They delete it beside the lock, or reset it.
It will not connect	Bluetooth off, too far away or flat batteries. Touch the keypad to wake it and try again.
The factory code still opens	Setup did not finish. Do not rely on the lock until it is sorted.
A card does not open	It was never enrolled. Enrol it beside the lock.
Bolt binds, door must be pushed	Adjust the strike. Check the faceplate is flush and the mounting plate screws are not over-tight.
Knob sits wrong	The L / R switch and knob are not set for your door (page 10).
Works, then fails later	A pinched cable. Put it back with the spare cable pushed back into the door.
Flat batteries	The key, or a USB power bank behind the lower front cover (page 11). Then 4 new AA.
Remote features stop	The gateway needs power and Wi-Fi in range. The lock still works at the door.

Still stuck? Call us on 09 238 2377 or 027 8 ACCESS (222 377).

Specifications

Type	Smart deadbolt, no handle
Inside unit	166 x 69 mm, 30 mm deep
Keypad	3 x 4 keys, card reader in the keypad
Opens by	Code, card or tag, TTLock app, key
Remote	With the Wi-Fi gateway, sold separately
Finishes	Black, Brushed Nickel
Material	Zinc alloy
Weather rating	IP56
Bluetooth	4.0
Power	4 x AA alkaline (6 V)
Battery life	About 8,000 unlocks, 8 to 12 months
Door thickness	40 to 55 mm
Latch	Tubular deadbolt, backset 60 or 70 mm
Holes	Cross bore Ø54, edge bore Ø23.8 (15/16 in)
Handing	Left or right, set on the inside unit
Codes	6 to 12 digits
Working range	-20 to 60 °C, 10 to 90% humidity
Factory code	In the manual, off once set up

Warranty

Two years on the lock. Use this deadbolt with a latch roller ball or a concealed magnet, for consistent operation and to meet our warranty criteria. Nothing in our warranty limits your rights under the Consumer Guarantees Act 1993.

KEYLESS SOLUTIONS

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