

KS150 Smart Deadbolt

Installation guide

For the KS150 smart deadbolt, all finishes. The KS150 is a deadbolt with no handle, running a tubular latch.



Illustration, not to scale

BEFORE ANYTHING ELSE

This guide carries a document number and revision in the top corner of every page. If the copy in your hand and the copy on keylessolutions.nz disagree, the website copy is the current one.

SAFETY

Fit the lock with the door OPEN and keep it open until the mechanical key and a test code have both been proven. Drilling and chiselling put fragments at eye height: wear eye protection. This product is not a substitute for a fire rated assembly where one is required.

ESCAPE ROUTES AND FIRE DOORS: CHECK BEFORE YOU FIT

On a means of escape, Building Code solution C/AS2 clause 3.15.2 requires the door to be openable from the inside WITHOUT a key or other security device. Read that literally: the mechanical key override does NOT satisfy it, because using it means using a key. Do not treat the key as the compliant escape method. What complies is the fitted doorset as a whole, and that is for the designer or the building consent authority to confirm, not for us and not for you on site. On a fire rated doorset, hardware is not generically approved in New Zealand: it must be approved on that maker's doorset. Escape route, fire door, commercial or multi unit: stop and confirm before you cut. Altering a means of escape can require consent.

WHAT THIS LOCK IS

The KS150 opens by the TTLock app, a PIN code on the keypad, an RFID card, and a mechanical key. It has no fingerprint reader. Remote features need the Wi-Fi gateway, sold separately, and nothing in this installation requires one.

USB EMERGENCY POWER

This model has a USB emergency power port, behind the lower front cover. If the batteries go completely flat, a USB power bank on that port powers the lock so your code works. It never opens the lock by itself and it never charges the batteries: replace them.

TUBULAR, NOT MORTICE

The KS150 uses a TUBULAR latch, not a mortice case. Earlier printed guides gave mortice instructions for this lock. If you are working from an older copy, stop and use this one.

ADJUSTABLE BACKSET

The backset is adjustable on the latch itself, from 60 mm to 70 mm. Set it to match the door before the latch goes in.

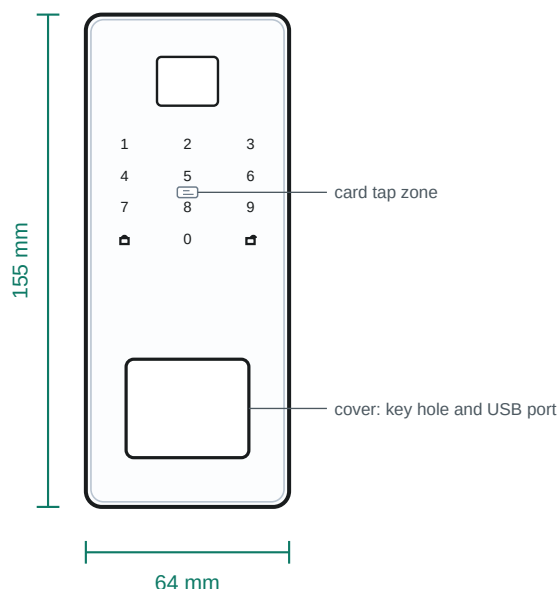
WARRANTY

Two year warranty, as published on keylessolutions.nz and subject to its conditions. The Consumer Guarantees Act applies separately to goods of a kind ordinarily bought for personal, domestic or household use and is not replaced by it. Published condition on this model: the deadbolt must be used with a latch roller ball or a concealed magnet, to keep the door consistently closed against the bolt, or it does not meet the warranty criteria.

STUCK

Call 09 238 2377, or 027 8 ACCESS (222 377). Have the model, the backset and the door type ready and we will work it out with you. If something is not working, keylessolutions.nz/troubleshooting walks the common faults, worst first.

1 · The product and the numbers



Exterior unit, front elevation. The published envelope:

- Panel: 155 mm high x 64 mm wide (manufacturer drawing). To be confirmed with the manufacturer: another of our publications gives 150 x 65 mm. Hold the lock itself against your marks before you cut anything.
- Outside panel depth: 15 mm.
- Inside unit: 166 x 69 x 30 mm, larger than the keypad side.
- Backset: 60 to 70 mm adjustable. Set the latch before you mark the door.
- Batteries: 4 x AA, fitted in the interior unit.
- Weather rating IP56.
- Bluetooth 4.0 or above.
- Material: Zinc alloy.
- Finishes: Black and Brushed Nickel. Fitting is identical across finishes.

Tools

- Drill with bits to suit your door
- Sharp chisel and mallet (timber doors)
- Phillips screwdriver, tape measure, pencil
- Masking tape to hold the paper template

WHAT IS IN THE BOX · TO BE CONFIRMED

The full parts list for this model, with screw lengths, tailpiece length and the door thickness range the supplied fixings cover, is still being confirmed. Until it is printed here, check the packing list in the box before you start, and never begin a job without the fixing kit in front of you.

DOOR THICKNESS AND TAILPIECE · TO BE CONFIRMED

The door thickness range and the supplied tailpiece length for this model are being confirmed. If the door is unusually thick or thin, check before ordering rather than on site.

THE LOWER FRONT COVER, AND THE SQUARE ABOVE THE KEYPAD

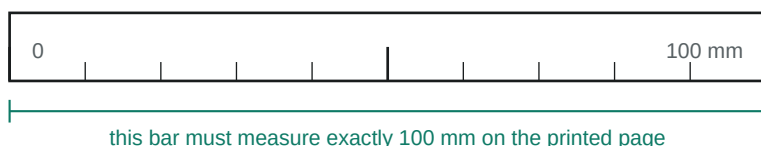
The larger cover below the keypad hides the mechanical key hole and the USB emergency power port. Show the owner where both are at handover, because a locked-out owner looks for a key hole and cannot see one. What the small square above the keypad does is still being confirmed, so this guide does not name it. The card tap zone is the card symbol between the 5 and the 8. Do not drill through the cover or the square.

2 · The paper template, and proving your printer

READ THIS BEFORE YOU DRILL ANYTHING

The published envelope tells you whether the lock fits the door. It does not tell you where to drill. The card downloadable from keylessolutions.nz POSITIONS the lock and does not carry hole centres. Only the card packed in your box marks holes, cut for your exact backset. If the box card is missing or unreadable, call 09 238 2377 before you drill. Never transfer hole positions from another installation or from an older guide.

If you print a replacement template from the website, printers silently shrink pages unless told not to, and a template printed at “fit to page” puts every hole in the wrong place. Prove the scale before you mark the door.



- Print at 100% scale. In the print dialog this is the option that does NOT say fit, shrink, or scale to paper.
- Lay a ruler or tape along the printed bar above. It must read exactly 100 mm. This bar proves THIS page printed at full size. Check a replacement template the same way, against its own printed check bar.
- If it does not, do not use the print. Fix the print scale and print it again.
- Set the latch to the backset the door needs FIRST, between 60 mm and 70 mm. That set figure is the distance from the door edge to the centre of the bolt. Measure it in from the door edge and pencil a line down the door face.
- Sit the teal dashed centreline on that pencil line, at the height you want the lock and square to the door edge, then tape the sheet flat and mark around the outline with a sharp pencil. The lock is symmetrical across its width, so its centreline is the bolt line. Mark the inside face from the second outline, not by folding the sheet round the edge: the two outlines are not a door thickness apart.

THE BACKSET IS SET BY YOU, ON THE LATCH

The backset is the distance from the door edge to the centre of the bolt. On this model it is NOT an ordered size. The latch adjusts between 60 mm and 70 mm and you set it on site to suit the door. Decide which the door needs and set the latch BEFORE you mark anything, because that one choice moves every hole by up to 10 mm.

3 · Fitting, in order

- 1 Set the backset on the latch**

The tubular latch adjusts between 60 mm and 70 mm. Set it to match the door before it goes in. This is a tubular latch, not a mortice case: it drops into the edge bore and is held by the faceplate.
- 2 Mark the door from the template**

Set the latch backset first, then measure that same distance in from the door edge and pencil a line down the door FACE. Sit the template's teal centreline on that pencil line at the height you want the deadbolt, tape the sheet FLAT on the face, and mark around the outline. Do not fold or wrap the sheet round the door edge: the backset sets how far in the lock sits, not the edge. Mark the inside face from the second outline, which is a different size on this model. The downloadable card does NOT carry hole centres: drill only from the card packed in the box. If it is missing, call 09 238 2377 before you drill.
- 3 Drill the crossbore and edge bore**

Drill the crossbore from both faces so the exit does not break out, then drill the edge bore square to the door edge so it meets the crossbore cleanly.
- 4 Fit the latch and the strike**

Seat the latch in the edge bore with the bolt retracted and screw the faceplate flush to the door edge. Fit the strike to the jamb so the bolt throws fully without forcing.
- 5 Run the cable**

Pass the connecting cable from the exterior unit through the crossbore, above the latch, so it is not pinched by the bolt.
- 6 Hang the exterior unit**

Seat the exterior unit on the door with the tailpiece engaging the latch. It must sit flat against the door face.
- 7 Fit the mounting plate and interior unit**

Screw the mounting plate to the door, connect the cable to the interior unit, then seat the interior unit on the plate. Check the thumbturn rotates freely before the final screws.
- 8 Batteries and first test**

Fit the batteries in the interior compartment. With the door still OPEN, test the mechanical key, then the factory code (123456, printed in the manual), then throw and retract the bolt from both sides. Only close the door once all three work.

3 · Fitting, in order (continued)

9

Pair with the TTLock app

The lock pairs with the TTLock app, made by Hangzhou Sciener and free on the App Store and Google Play. Have the OWNER create their own account and add the lock while standing beside it, so the owner holds the administrator account rather than the installer. Adding the lock switches the factory code off: key in 123456 and check it is refused before you leave. On a rental or a sale it is that account, not the keys, that hands the lock over.

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Enrol the cards and fobs

Add each RFID card or fob through the app while beside the lock, and label them as you go. Cards handed over without being enrolled will not open the door.

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Hand over

Leave this guide, the keys and the cards with the owner, and write the backset on the handover record in section 4: it is the first thing anyone will ask for in five years.

4 · After fitting

The three questions every owner asks in the first month:

- Flat batteries: the mechanical key always works, and its key hole and the USB emergency power port are both behind the lower front cover. A USB power bank on that port powers the lock so your code works. It never opens the lock by itself and never charges the batteries. Change all cells at once, with the door open.
- No internet: codes, cards and keys never depend on the internet. Only remote features do, and those need the separate Wi-Fi gateway.
- Selling or re-letting: transfer or reset the lock in the TTLock app BEFORE handover, or the old administrator keeps working access.

INSTALLERS: RELEASE THE LOCK BEFORE YOU LEAVE

If you added this lock to YOUR OWN TTLock account, you must delete it in the app while standing beside the lock, in Bluetooth range, before you leave site. Uninstalling the app does not release it. Deleting your account does not release it. If you skip this the owner cannot add the lock at all, and the only way out is a factory reset that wipes every code and every card.

WARRANTY CONDITION, READ THIS

This is a published condition of the warranty on this deadbolt: it must be used together with a latch roller ball or a concealed magnet, to keep the door consistently closed against the bolt, or it does not meet the warranty criteria. If the door has neither, fit one before you hand over.

4 · After fitting (continued)

HANDOVER RECORD

Leave this with the owner. Test with the door OPEN and tick: mechanical key ☐ admin code ☐ card or fob ☐ app unlock ☐

Model and finish

Backset fitted

Date fitted

Fitted by

Admin account holder

Owner's TTLock account email

Lock name in the app

Gateway serial, if fitted

Factory code 123456 refused (Y/N)

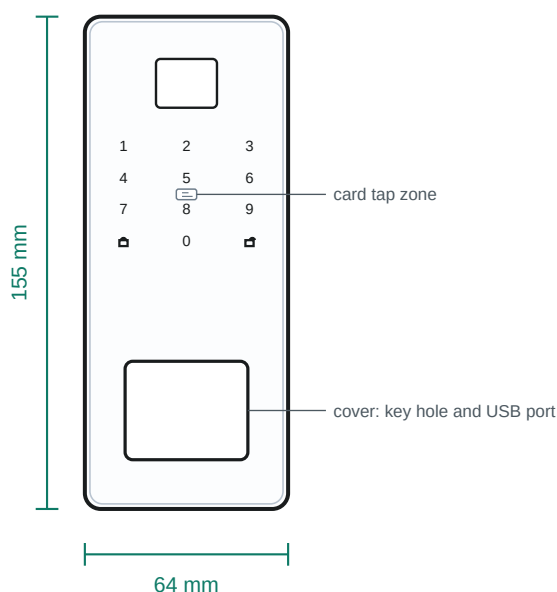
Cards or fobs enrolled

Keys handed over

Installer released lock (Y/N)

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For the KS150 smart deadbolt, all finishes. The KS150 is a deadbolt with no handle, running a tubular latch.



DIMENSIONS AND FINISH

Panel	155 x 64 mm. To be confirmed: another of our publications gives 150 x 65 mm
Panel depth	15 mm
Inside unit	166 x 69 x 30 mm, larger than the keypad side
Backset	60 to 70 mm adjustable
Finishes	Black and Brushed Nickel
Material	Zinc alloy

ELECTRICAL AND ENVIRONMENT

Batteries	4 x AA
Weather rating	IP56
Bluetooth	4.0 or above
Remote access	Gateway ready. The Wi-Fi gateway is a separate purchase.
USB emergency power	Yes, behind the lower front cover. Power only: it does not open the lock or charge the batteries.

ACCESS

Opens by	TTLock app, PIN code, RFID card, mechanical key
Key hole	Behind the lower front cover
Fingerprint	Not on this model
Keypad	3 columns x 4 rows
App	TTLock, by Hangzhou Sciener. Not a Keyless Solutions app.

DOOR PREPARATION · TO BE CONFIRMED

Drilling centres are being confirmed with the manufacturer. Do NOT set a door out from this sheet: it is not printed at true size. Use the true size fitting template for this model, and drill only from a card cut for your exact backset. If no such card came with your lock, call 09 238 2377 before you drill.

If something is not right

Call 09 238 2377, or 027 8 ACCESS (222 377). Have the model, the backset and the door type ready and we will work it out with you. If something is not working, keylessolutions.nz/troubleshooting walks the common faults, worst first.

Keep this leaflet

It carries the model, the revision and the numbers the next person will ask for. Keep it with the keys and the cards.

WARRANTY

Two year warranty, as published on keylessolutions.nz and subject to its conditions. The Consumer Guarantees Act applies separately and is not replaced by it. Published condition on this model: the deadbolt must be used with a latch roller ball or a concealed magnet, to keep the door consistently closed against the bolt, or it does not meet the warranty criteria.



KS150

Smart Deadbolt



START HERE

Open this leaflet. Five minutes now saves a phone call later.

FOLD

Four ways in

● **PIN code**

Type it on the keypad. Set your own in the app, then check the factory code 123456 is refused.

● **Card or fob**

Hold it to the reader. Enrol each one in the app first, or it will not open the door.

● **Mechanical key**

Always works, batteries or not. The key hole is behind the lower front cover. Keep a key somewhere sensible away from the door.

● **The app**

TTLock, made by Hangzhou Sciener, free on the App Store and Google Play. It is not a Keyless Solutions app.

NO FINGERPRINT ON THIS MODEL

The KS150 has no fingerprint reader. If a guide tells you to enrol one, it is the wrong document.

FOLD

The three things people ring about

● **Flat batteries**

The mechanical key always works. This model has a USB emergency power port, behind the lower front cover. A USB power bank on that port powers the lock so your code works. It never opens the lock by itself and never charges the batteries. Change all cells at once, with the door open.

● **No internet**

Codes, cards and keys never depend on the internet. Only remote features do, and for those this lock is gateway ready: the Wi-Fi gateway is a separate purchase.

● **Selling or re-letting**

Transfer or reset the lock in the app BEFORE handover, or the previous administrator keeps working access. The keys are not what hands the lock over, the account is.

Your lock

Model	KS150
Panel	155 x 64 mm, to be confirmed
Backsets	60 to 70 mm adjustable
Batteries	4 x AA
Weather	IP56

Full install guide: keylessolutions.nz/downloads

KS150 Smart Deadbolt

Installation positioning card

Read this before you print

The outline sheets that follow are printed at TRUE SIZE. That only works if your printer does not resize the page. Before you mark any door, measure the bar below with a ruler or tape. If it is not exactly 100 mm, the print is wrong and the template must not be used.



This bar must measure exactly 100 mm, or the print is the wrong size.

How to use this card

- 1 Print at 100% scale on A4. In the print dialog turn OFF fit to page, shrink to fit, and scale to paper size. These are on by default in most drivers.
- 2 Check the 100 mm bar above with a ruler.
- 3 Wipe the door clean and dry where the lock will sit.
- 4 This model's latch is ADJUSTABLE from 60 mm to 70 mm backset and is set on site. Decide what the door needs, set the latch to it, then measure that same distance in from the door edge and pencil a line down the door face.
- 5 Turn the sheet a quarter turn, so the teal dashed centreline runs DOWN the door and parallel to the door edge. The outline is printed lying on its side so the whole length fits the page. Sit that centreline on your pencil line at the height you want the lock, and check it still sits on the line at BOTH ends so the sheet is not cocked. The lock is symmetrical across its width, so that centreline is the bolt line.
- 6 Tape the sheet flat and mark around the TOP outline for the outside face. The sheet carries two: the second one is the inside face. Mark that one from the door's inside, not by folding this sheet round the edge.
- 7 Check the marked extents clear any glazing bead, reveal or adjacent leaf before anything is cut. Check the LARGER of the two outlines, because that is the one that decides whether it fits.

HOLE CENTRES AND PANEL SIZE · TO BE CONFIRMED

This card positions the lock. It does NOT mark the holes. Drilling centres are being confirmed with the manufacturer and will be printed here. Until then, use whatever drilling card came in your box. If there is no card in yours, call 09 238 2377 rather than measuring holes off this sheet. The panel size is being confirmed too: this outline follows our drawing, 155 x 64 mm, and another of our publications gives 150 x 65 mm. Hold the lock itself against your marks before you cut anything.

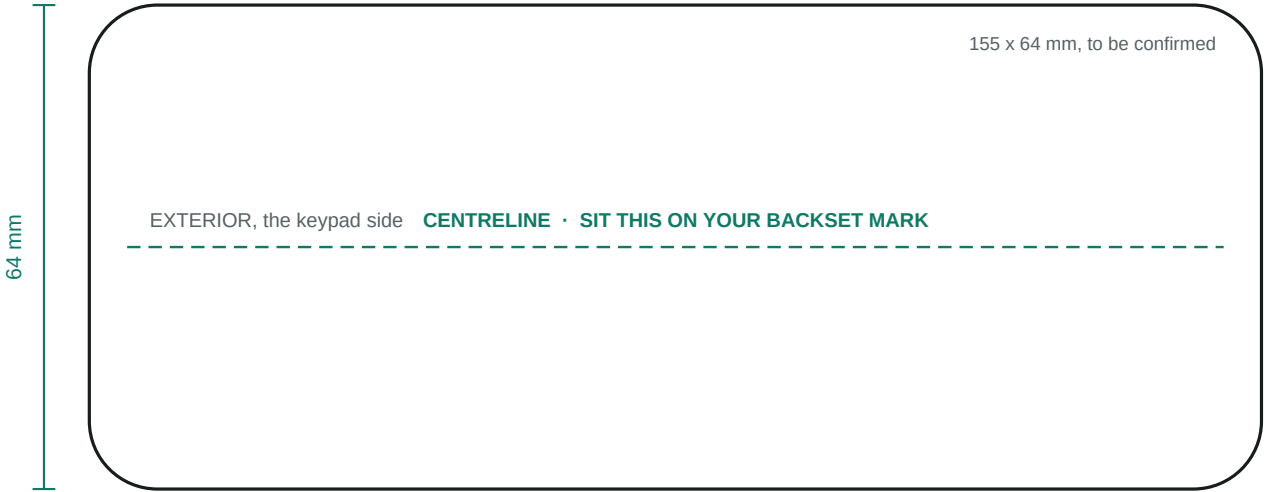
HOW FAR FROM THE DOOR EDGE

This sheet does NOT tell you how far the lock sits from the door edge. That is set by the latch, which on this model adjusts between 60 mm and 70 mm and is set by you on site, so decide it before you mark anything. The sheet gives you the outline at true size so you can set the height, check the lock clears the glazing bead and the reveal, and mark exactly what it covers.

KS150 Smart Deadbolt · Fitting template

True size outline, one sheet. Nothing to cut, nothing to tape.

PRINT ON A4 AT 100%. DO NOT SCALE.



This bar must measure exactly 100 mm.