

CN276 · INSTALLATION AND SETUP GUIDE

Your door. Opens with a finger.

Fingerprint and card door access kit. Simple steps, clear pictures, everything in one place.



Fingerprint

500 fingers

RFID card

125 kHz cards

PIN code

8 door codes

600 lbs lock

about 272 kg hold

Four parts. One door.

Check you have all four before you start.

1 • ACBC-SC5H reader

Goes outside, next to the door. Opens with fingerprint, RFID card or PIN. Has a keypad, a doorbell button, green and red lights, a buzzer and a tamper alarm.

86 × 86 × 30 mm · 12 V DC · 500 fingerprints, 500 cards, 8 PIN codes

2 • EM-602 magnetic lock

Fixed at the top of the door. A strong magnet holds the door shut. It comes with an armature plate (the steel plate for the door), screws, rubber washers, pins, an Allen key and a paper template.

600 lbs (about 272 kg) · 12 V DC · LED light · body about 250 × 47 × 25 mm · plate about 180 × 36 × 10 mm

3 • SSW-442P exit button

Goes inside the room. Press it to open the door when you leave.

Stainless steel · 86 × 86 mm · wires: NO white, NC red, COM yellow

4 • DP-08 power supply

Plugs into a normal wall socket and gives 12 V DC to the reader and the lock.

12 V DC, 5 A output · keep indoors

Not in the box: connecting cable, L, Z or U brackets for special doors (page 5), and installation. RFID cards must be 125 kHz.

HOW IT WORKS

In with a finger. Out with a push.



- 1 Show your finger**
Or a card, or type your PIN. Green light means yes.
- 2 Door opens**
The reader switches the magnet off for a few seconds (6 s from the factory).
- 3 Locks again**
Close the door and the magnet holds it shut again.

Power cut? The door opens. The lock holds only while it has power. This is called fail-safe, so nobody is ever locked in.

Where each part goes.

Decide the places first, then run the cables to them.

PART	WHERE
EM lock	Top corner of the door frame, on the side away from the hinges.
Reader	Outside, beside the door, at a comfortable hand height. Fits a standard 86 mm box. Indoors or under cover.
Exit button	Inside, beside the door. Fits a standard 86 mm box.
DP-08 power supply	Indoors, near a wall socket, away from water.

CABLES TO RUN (ALL LOW VOLTAGE, 12 V)

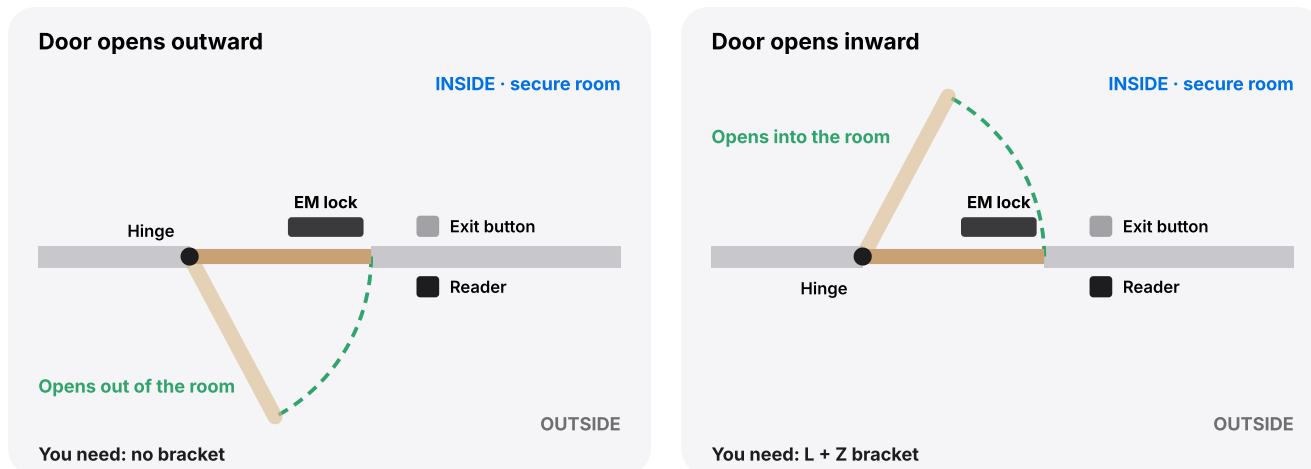
FROM → TO	WIRES NEEDED
Power supply → reader	2 wires: +12 V and GND
Reader → EM lock	2 wires: +12 V and lock return (from NC)
Reader → exit button	2 wires: BUT and GND

Easy way: run one multi-core security cable from the reader to each part. Hide cables inside the wall or in conduit, so nobody can cut them from outside.

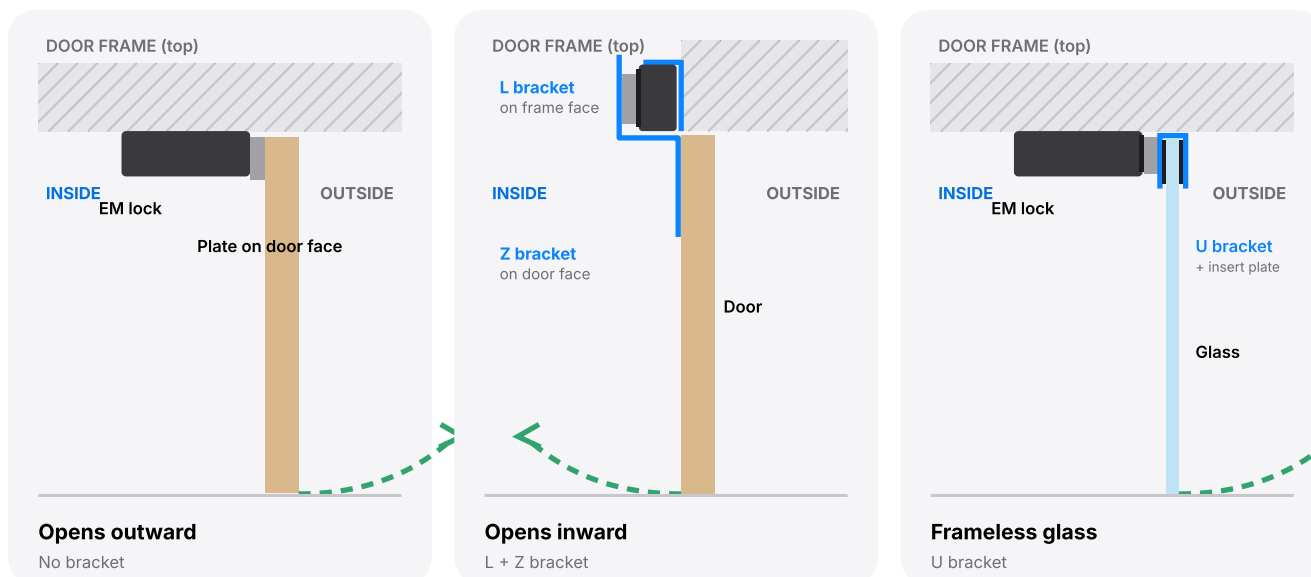
Check your door first. The EM lock suits wooden, metal and glass doors. Which fitting you need depends on which way the door opens. See the next page.

Which way does your door open?

The lock always goes on the **inside** (the room you protect). The reader goes outside, the exit button inside. Look at the door from above:



SIDE VIEW AT THE TOP OF THE DOOR



YOUR DOOR

Opens outward (away from the lock)

Opens inward (towards the lock)

Frameless glass door

YOU NEED

Nothing extra. The lock fixes straight under the frame (page 6).

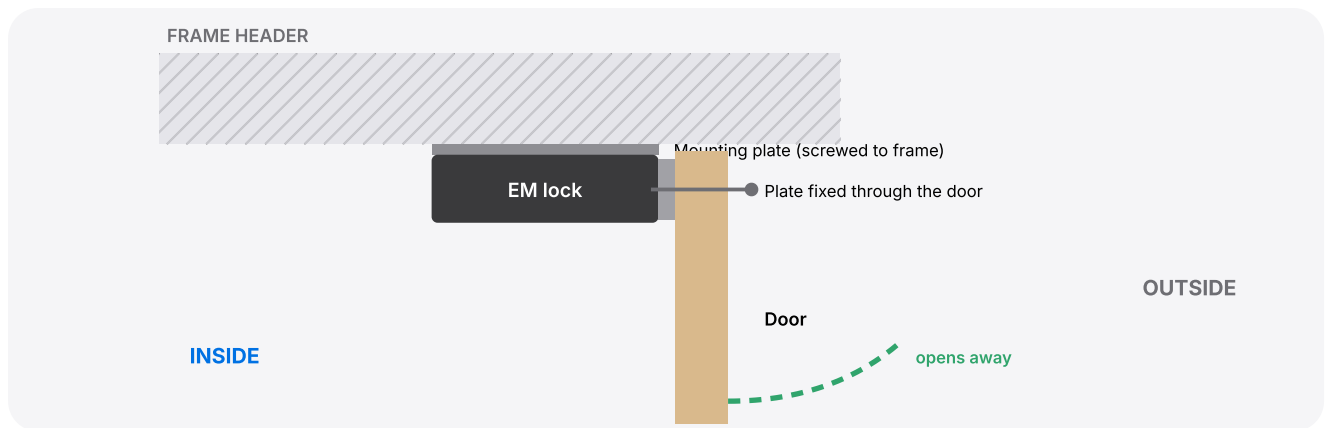
L bracket + Z bracket (page 7)

U bracket, clamps on the glass (page 8)

Brackets are sold separately. Check the door thickness and the frame space above the door before ordering.

Lock on the frame. Plate on the door.

For doors that open outward, away from the lock. The lock sits on the inside.

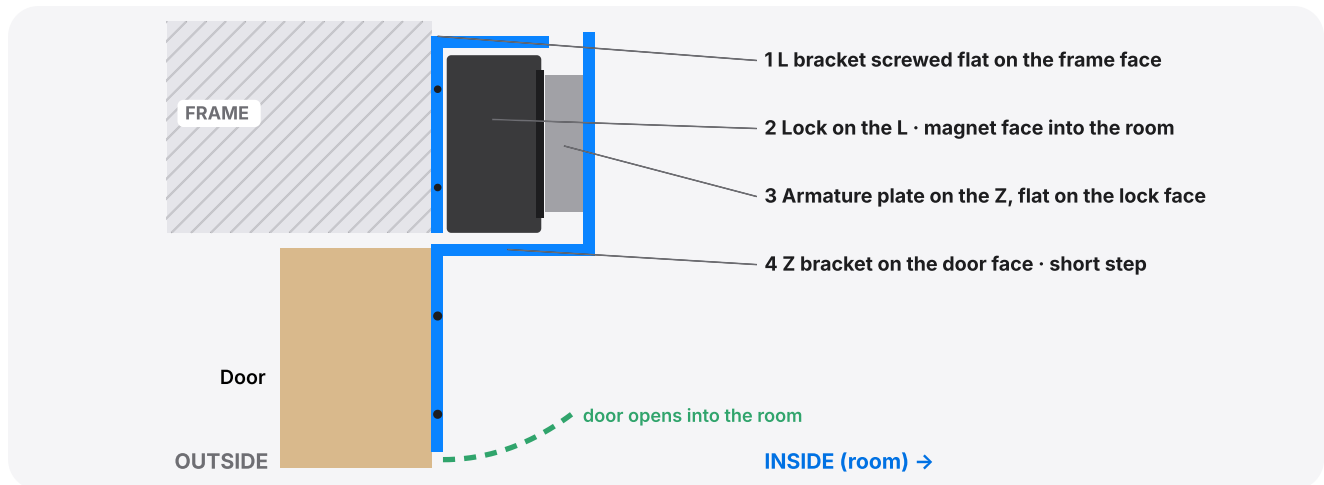


- 1 Stick the template**
Close the door. Stick the paper template across the top corner of the frame and door.
- 2 Take the plate off the lock**
Remove the screw and slide the mounting plate off the lock body.
- 3 Fix the mounting plate**
Screw it under the frame header, using the template holes.
- 4 Fix the lock body**
Slide the lock back onto its plate and tighten its screws with the Allen key.
- 5 Fit the armature plate**
Drill the door at the template mark. Fix the plate with the long screw and sleeve, the rubber washers and the 2 small pins.
- 6 Check the fit**
Close the door. The plate must sit flat against the full face of the lock.

Don't over-tighten the plate. The rubber washers let it move slightly so it lines up with the magnet by itself. This gives the strongest hold.

For doors that open inward.

The L bracket holds the lock on the face of the frame, just above the door, with the magnet face pointing into the room. The Z bracket holds the armature plate on the face of the door, right in front of the lock.



1

Check the frame

Make sure there is enough flat frame face above the door, at the corner away from the hinges, for the L bracket.

2

Fix the L bracket

Close the door. Screw the L bracket flat onto the frame face, just above the door.

3

Fix the lock on the L

Fix the lock body to the L bracket with the magnet face pointing into the room. Connect the wires.

4

Plate on the Z

Fit the armature plate onto the Z bracket's upper lip, with the rubber washers.

5

Fix the Z bracket

Hold the Z on the door face, just below the lock, so the plate sits flat on the lock face. Mark the holes and screw it to the door.

6

Test the swing

Open and close the door slowly. Nothing should rub, and the plate must sit flat on the lock.

The last three fittings.

Frameless glass door: U bracket

The U bracket clamps over the top edge of the glass, with the insert plate inside, so there is no drilling in the glass. The armature plate is fixed on the side of the U bracket, facing the lock. Fix the lock under the frame header the same way as page 6, so the plate sits flat against the lock face.

DP-08 power supply

Fix it indoors on a dry wall near a socket. Don't plug it in until all wiring is finished.

FIT THE READER

- 1 Open it**
Remove the screw at the bottom of the reader and take off the back cover.
- 2 Fix the back cover**
Screw the back cover to the wall or an 86 mm box, using the mounting paper. Bring the cable through the middle.
- 3 Connect, then close**
Connect the wires (page 9), fit the reader onto the back cover and put the bottom screw back.

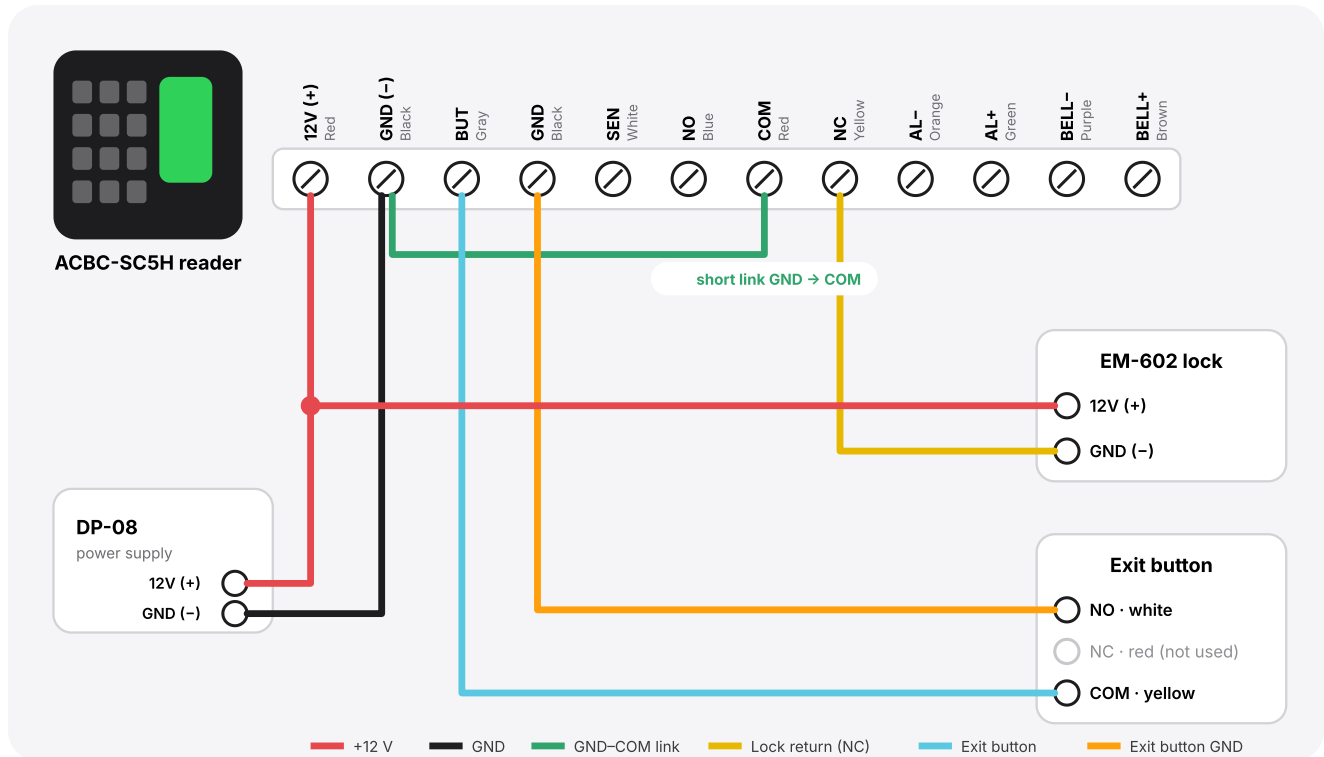
FIT THE EXIT BUTTON

Fix it inside the room on a standard 86 mm box, at the same height as a light switch. It uses 2 of its 3 wires: NO (white) and COM (yellow). The red NC wire is not used; tape its end.

Tamper alarm. The reader beeps loudly if it's pulled off its back cover. Fix the back cover firmly so it doesn't go off by mistake.

Every wire, in one picture.

Do all wiring with the power supply unplugged. The colours are the reader's own wire colours.



Tick each one as you go.

READER WIRE	CONNECTS TO
● 12V (+) · red	Power supply 12V (+) and EM lock 12V (+)
● GND (–) · black	Power supply GND (–) and a short link to the reader's COM (red)
● COM · red	Linked to GND (–)
● NC · yellow	EM lock GND (–)
● BUT · gray	Exit button COM (yellow)
● GND · black (second one)	Exit button NO (white)
○ SEN · white	Not used. Optional door sensor.
● NO · blue	Not used with the EM lock.
● AL– · orange, ● AL+ · green	Not used. Optional 12 V alarm siren.
● BELL– · purple, ● BELL+ · brown	Not used. Optional 12 V doorbell for the bell button on the keypad.

Why NC? NC is closed when idle, so the magnet stays on and the door stays locked. A valid finger opens NC for a few seconds and the door releases.

Tape every unused wire separately, so no bare ends touch each other.

EM LOCK LIGHT

Red	Plate fully pulled in. Locked properly.
Green	Plate not pulled in well. Check the plate lines up.
Off	No power to the lock.

Add the admin first.

The admin fingerprint opens the settings. Do this once, right after switching on.

SET THE ADMIN FINGERPRINT

Press ***** then **#** → type **1 2 3 4 #** → place the admin finger **3 times** → press ***** to finish

1234 is the factory program password. Green light with a long beep means it worked.

EVERY SETTING STARTS THE SAME WAY

Press ***** then **#** → place the **admin finger** → press the **setting number**

NUMBER	SETTING
#	Add a user (finger or card)
2	Delete a user
3	Set a door PIN code
4	Door open time
5	How users open the door
8	Change the admin finger
9 #	Delete all users
0 1	Alarm on or off

Lights and beeps. Green light + long beep: done. Red light + short beeps: try again. Press ***** any time to step back or finish.

Add people. Set the door.

- 1 Add a fingerprint user**
 * # → admin finger → # → type a user number (1, 2, 3...) → # → place the user's finger 3 times → *
- 2 Add a card user**
 Same as above, but show the card instead of the finger. Show it again if it beeps for a second read.
- 3 Set a door PIN (up to 8)**
 * # → admin finger → 3 → choose code slot 1–8 → type a 4-digit PIN # → type it again # → *
 To open with it: type the PIN, then #.
- 4 Delete one user**
 * # → admin finger → 2 → type the user number, or place their finger, or show their card → *
- 5 Door open time**
 * # → admin finger → 4 → type 1 to 10 seconds → *. Factory setting: 6 seconds.
- 6 How users open the door**
 * # → admin finger → 5 → type a mode number # → *

MODE	OPENS WITH
1	PIN only
2	Card only
3	Fingerprint only
4 (factory)	Fingerprint, PIN or card, any one
5	Card, then PIN
6	Fingerprint, then PIN

Five checks before you hand over.

- 1 Locked**
Close the door and pull it. It stays shut, and the lock light is red.
- 2 Fingerprint**
A registered finger gives a green light and the door opens.
- 3 Wrong finger**
An unregistered finger gives a red light. The door stays shut.
- 4 Exit button**
Press it from inside. The door opens.
- 5 Power cut**
Unplug the power supply. The door opens. Plug it back in.

MORE SETTINGS

Change the admin finger

* # → old admin finger → 8 → new finger 3 times → *

Delete all users

* # → admin finger → 9 # → *

Alarm on or off

* # → admin finger → 0 1 → 0 on or 1 off → # → *

Admin lost or forgotten

Open the reader's back cover. After about 30 seconds you hear a short beep. Then press the tamper switch inside 3 times within 30 seconds. The default password 1234 works again.

Sorted in a minute.

PROBLEM	WHAT TO DO
Reader has no light	Check the power supply is plugged in, and the reader's red (+12V) and black (GND) wires.
Door doesn't lock	Check the lock's +12V and the reader's yellow NC wire, and the link from GND to COM. The lock light should be red when the door is shut.
Door doesn't open with a valid finger	The lock must be on NC, not NO. Check the green light shows on the reader.
Exit button does nothing	Use the button's white (NO) and yellow (COM) wires, to the reader's BUT and GND.
Door holds weakly	The plate isn't flat on the lock. Loosen it slightly so the rubber washers let it line up, and clean both faces.
Finger not read	Clean the sensor. Place the finger flat in the centre. Register the same finger again, 3 times.
Loud alarm from the reader	The tamper switch has opened. Refit the reader firmly on its back cover.

WARRANTY

1 year against manufacturing defects. Not covered: wrong wiring, wrong power supply, water or physical damage. The power adapter has no warranty.

NEED HELP?

WhatsApp a photo of your wiring to NavKar Systems:

+91 91384 68548

Calls: +91 90536 35607

Wiring follows the NavKar CN276 connection diagram. Setup key steps follow the reader's X6-series factory manual. Pictures are for illustration. Installation by a trained technician is recommended.