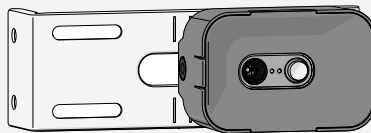


Wireless First Safety Beam Kit

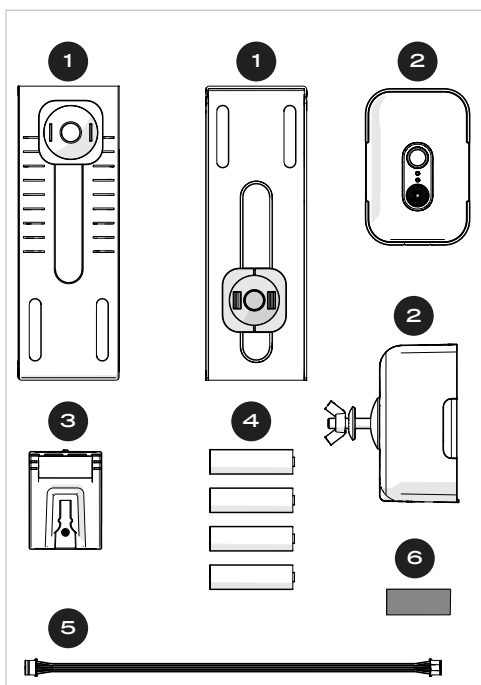


INSTRUCTION MANUAL

Part#: 102050

The Wireless First Safety Beam Kit is an infrared safety system for automatic doors and gates. It supports wired and wireless connection and control with compatible door operators, helping prevent accidents by detecting movement or obstacles.

KIT CONTENTS



- | | |
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| 1 | L BRACKET ASSEMBLY X 2 |
| 2 | TRANSMITTER / RECEIVER ASSEMBLY X 2 |
| 3 | WIRELESS BASE STATION X 1 |
| 4 | AA SIZE ALKALINE BATTERIES X 4 |
| 5 | WIRELESS BASE STATION HARNESS X 1 |
| 6 | SELF ADHESIVE HOOK & LOOP STRIP FOR WIRELESS BASE STATION X 1 |

IMPORTANT SAFETY INSTRUCTIONS



SAFETY OVERVIEW

READ AND SAVE THESE INSTRUCTIONS

Installation and servicing must be performed by trained personnel and comply with:

- UL 325 / ANSI/CAN/UL 325 (USA/Canada),
- AS/NZS 60335.2.103 (Australia/New Zealand),
- local electrical codes (NEC Article 725 Class 2 / CEC), and
- applicable gate standards (e.g., ASTM F2200 for vehicular gates)



WARNING

ENTRAPMENT PROTECTION:

- Mount the beam no higher than 150 mm (6 in) above the floor and within 150 mm (6 in) of the door travel path (perpendicular).
- Test operation at installation and monthly thereafter.
- Do not operate if the beam fails to stop/reverse movement when interrupted.

WIRELESS MODE

- Use wireless mode only where RF communication is reliable; switch to wired mode if interference is suspected.

TRANSMITTERS COMPLIANCE STATEMENT

This device complies with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).

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.

This equipment complies with the FCC and ISCED Canada radiation exposure limits set forth for an uncontrolled environment. In order to comply with FCC and ISCED RF Exposure requirements, this device must be installed to provide at least 20 cm separation from the human body at all times.

NOTE: 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 your local dealer or an experienced radio/TV technician for help.

WARNING: Any changes or modifications not expressly approved by the grantee could void the user's authority to operate this equipment..

DÉCLARATION DE CONFORMITÉ DE L'ÉMETTEUR

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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 ;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Cet équipement est conforme aux limites d'exposition aux radiations de la FCC et d'ISED Canada établies pour un environnement non contrôlé. Afin de se conformer aux exigences d'exposition RF ISED, cet appareil doit être installé pour fournir au moins 20 cm de séparation du corps humain en tout temps.

REMARQUE: Cet équipement a été testé et déclaré conforme aux limites applicables à un appareil numérique de classe B, conformément à la partie 15 des règles de la FCC. Ces limites visent à assurer une protection raisonnable contre les interférences nuisibles dans une installation résidentielle. Cet équipement génère, utilise et peut émettre de l'énergie radiofréquence et, s'il n'est pas installé et utilisé conformément aux instructions, peut causer des interférences nuisibles aux communications radio. Cependant, il n'est pas garanti qu'aucune interférence ne se produira dans une installation particulière. Si cet équipement cause des interférences nuisibles à la réception radio ou télévision, ce qui peut être déterminé en éteignant puis en rallumant l'équipement, l'utilisateur est encouragé à essayer de corriger l'interférence par une ou plusieurs des mesures suivantes :

- Réorienter ou déplacer l'antenne de réception.
- Augmenter la distance entre l'équipement et le récepteur.
- Brancher l'équipement sur une prise d'un circuit différent de celui auquel le récepteur est connecté.
- Consulter votre revendeur local ou un technicien radio/TV expérimenté pour obtenir de l'aide.

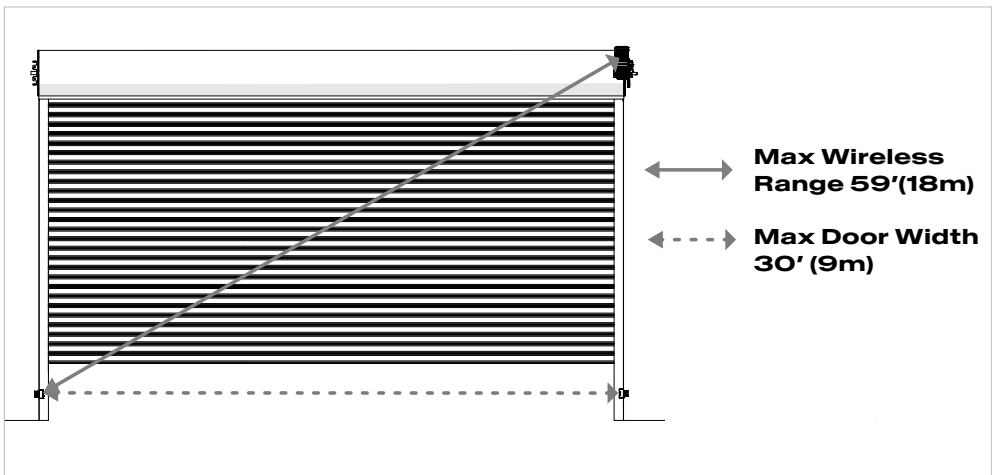
AVERTISSEMENT: Tout changement ou toute modification non expressément approuvé par le bénéficiaire peut annuler le droit de l'utilisateur à utiliser cet équipement.

SPECIFICATIONS

WIRELESS

Wireless Protocol	Bluetooth - BLE
Maximum Wireless Range	59' (18m)
Maximum Door Width	27'10" / 8.5m (wireless) 32'9" / 10m (wired)
Power Source	
Base Station	Powered by Operator
Receiver, Transmitter	2 x 1.5V AA Size E91 Alkaline Battery per unit (4 total).
Battery life	4yrs*
Environmental Rating	IP66
Operating temperature	-20°C to +70°C

* Estimate based on typical use. Actual battery life depends on operating and environmental conditions.



WIRED

Wired communication protocol

Two wire modulated

Maximum Infrared Range

30' (9m)

Wire Type

Class 2 22AWG 2 x solid copper core

Power source

Base Station,
Receiver,
Transmitter

Powered by Operator/Opener

Environmental Rating

IP66

Operating Temperature

-20°C to +70°C

Wire Kit Lengths (Part# 102055, sold separately)

2x65' (20m)

CAUTION

Battery safety

- Use alkaline AA (LR6/E91) cells only; observe polarity.
- Do not mix old/new cells or different brands.
- Do not recharge, short-circuit, crush, or incinerate cells.
- Replace all cells together.
- Remove batteries if unused for more than 3 months.
- Dispose/recycle according to local regulations.

ATTENTION

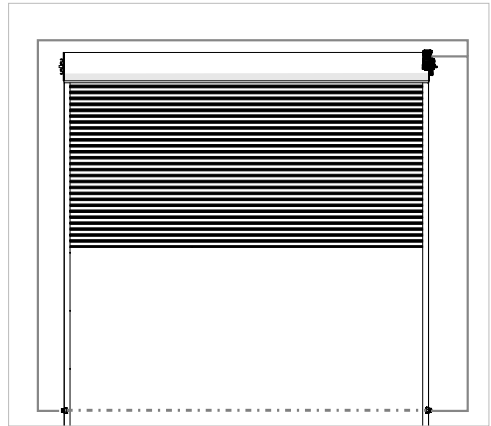
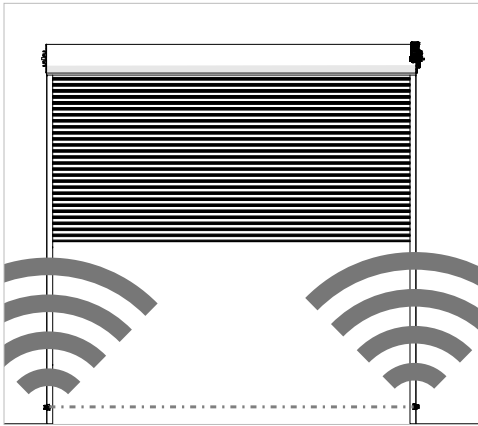
Sécurité des pile

- Utilisez uniquement des piles alcalines AA (LR6/E91); respectez la polarité.
- Ne mélangez pas des piles usées/neuves ni des marques différentes.
- Ne rechargez pas, ne court-circuitiez pas, ne les écrasez pas et ne les incinerez pas.
- Remplacez toutes les piles en même temps.
- Retirez les piles si l'appareil reste inutilisé plus de 3 mois.
- Éliminez/recyclez selon la réglementation locale.

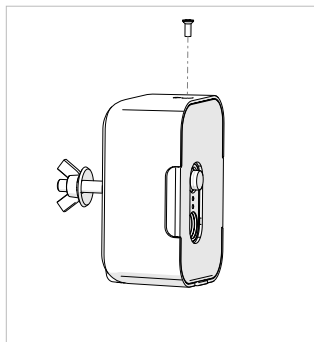
WIRELESS OR WIRED? CHOOSE BEFORE YOU START

When set to operate wirelessly, the transmitter and receiver communicate with the door operator via Bluetooth and are powered by two AA batteries each (included in the kit). This eliminates the need for cabling, saving time and cost.

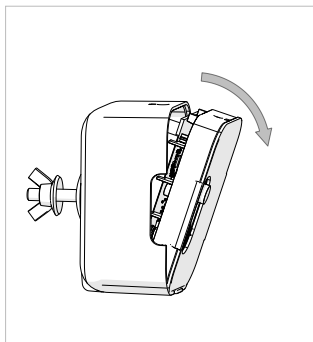
Unless there is a strong reason for a wired connection (such as a door width over 27'10"/5,5m wide, or heavy wireless interference), we strongly recommend choosing the wireless setup.



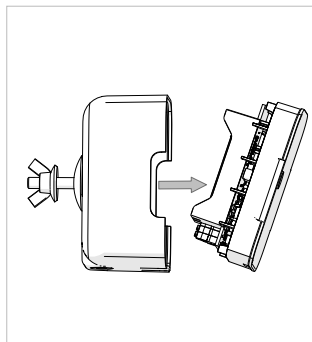
OPENING TRANSMITTER AND RECEIVER UNITS



Remove the screw at the top of the unit

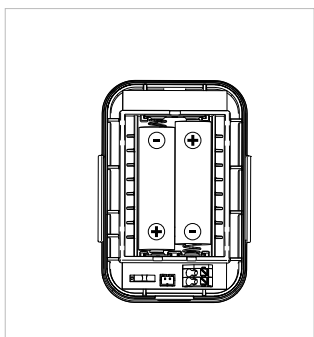


Gently lever the top of the front enclosure away from the shell

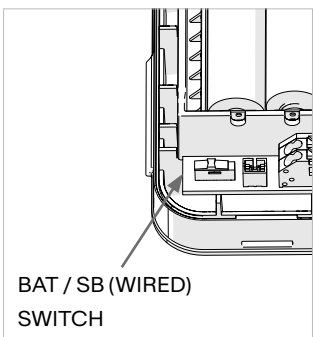


Pull the entire front enclosure away from the shell

INSERTING BATTERIES AND SETTING TO WIRELESS MODE



Insert batteries



BAT / SB (WIRED)
SWITCH

Ensure switch is set to BAT for battery powered / wireless mode (left position, away from the terminals)

CAUTION

Environmental sealing

To maintain IP66 :

- Do not remove cable grommets; pierce the sealed tip only.
- Ensure firm grip on the cable jacket; avoid sharp bends at entry.
- Fully tighten covers and hardware after wiring.

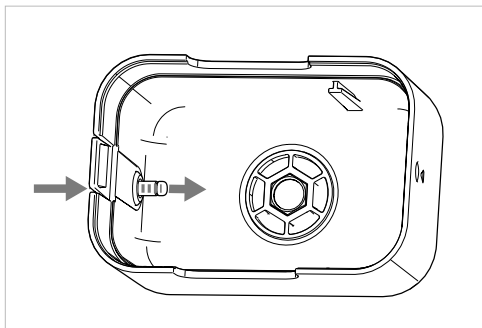
ATTENTION

Étanchéité

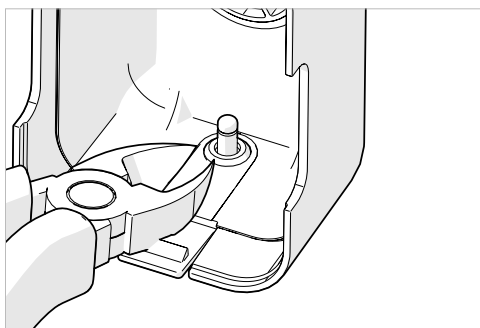
Pour conserver IP66:

- Ne retirez pas les presse-étoupes; percez uniquement l'extrémité scellée.
- Assurez l'adhérence sur la gaine; pas de courbures serrées à l'entrée.
- Serrez complètement les couvercles et la visserie après le câblage.

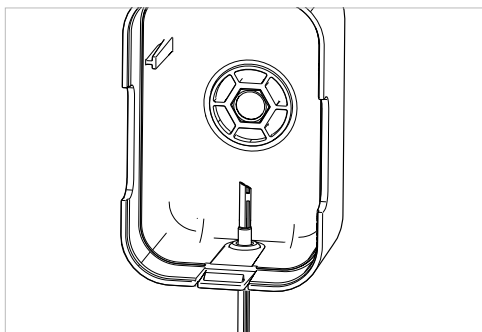
CONNECTING CABLES AND SETTING TO WIRED MODE



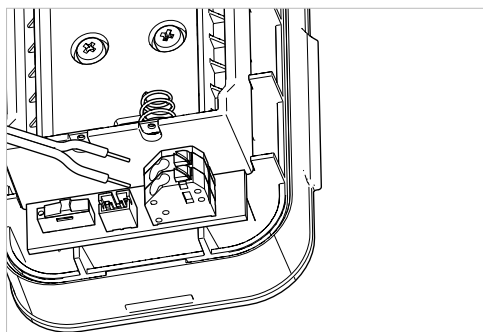
Wiring Pathway: wires must be passed through the IP rated cable grommet in the base of each unit's rear cover. These ship from the factory sealed for wireless use and must be punctured to allow cable to pass through. DO NOT REMOVE THE GROMMET.



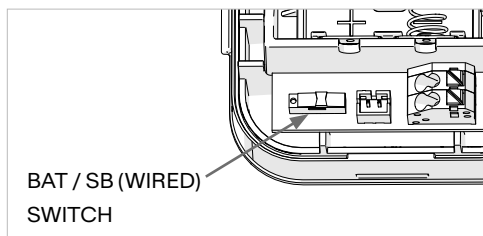
Remove Seal on Cable Grommets: Use wire cutters or scissors to cut the sealed tip of the grommet at the ridge.



Insert Cables Into Grommets: Push tips of cable through holes in each grommet and pull enough through to allow freedom of movement for connecting to terminal blocks.



Connect Cables to Terminal Blocks: Push tips of stripped cable ends into terminals. Carefully pull any cable slack back through grommets and close each unit.



Set Switch to Wired Mode Push red switch to SB position (right) for wired operation

WARNING

Entrapment prevention

Mount lenses so the beam is ≤ 6 in (150 mm) above the floor and ≤ 6 in (150 mm) from the door travel path (perpendicular).

Incorrect placement can fail to detect a child beneath a closing door.

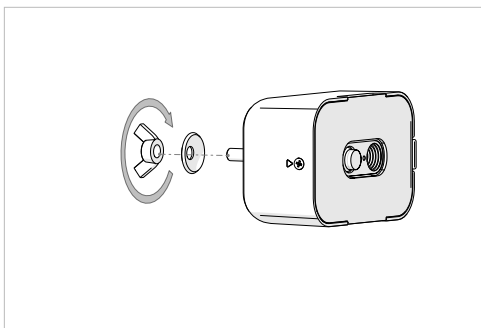
AVERTISSEMENT

Prévention de l'enfermement:

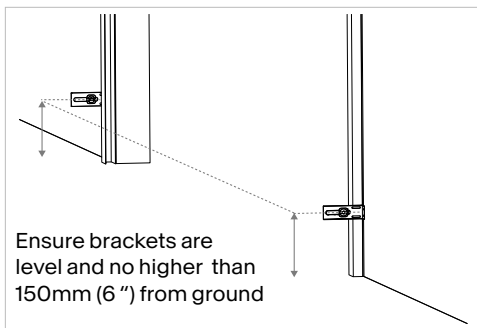
Installez la barrière de sorte que le faisceau soit à ≤ 6 po (150 mm) du sol et à ≤ 6 po (150 mm) de la trajectoire de la porte (perpendiculairement).

Une position incorrecte peut ne pas détecter un enfant couché sous la porte.

MOUNTING TRANSMITTER AND RECEIVER UNITS

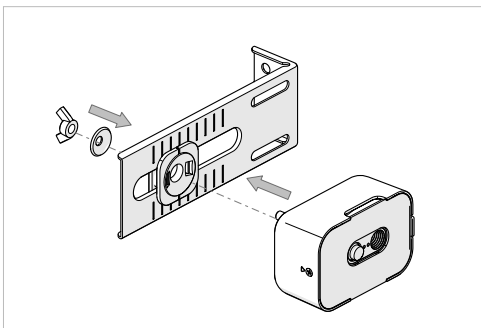


Remove the wing nut and washer from the rear mounting bolt.

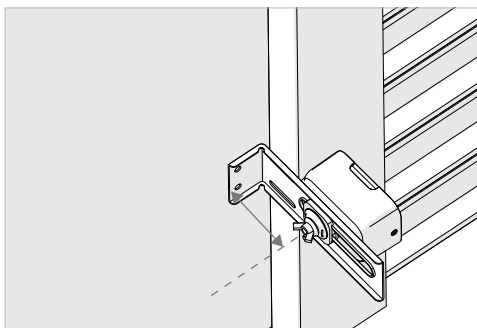


Ensure brackets are level and no higher than 150mm (6 ") from ground

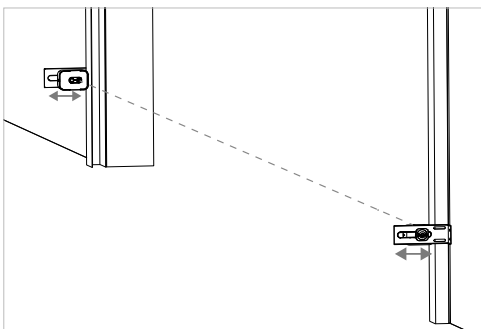
Fix L brackets to the wall as close to the door opening as possible using suitable fasteners for the substrate (not supplied).



Insert mounting bolts through the alignment clips. Attach wing nuts and lightly tighten.



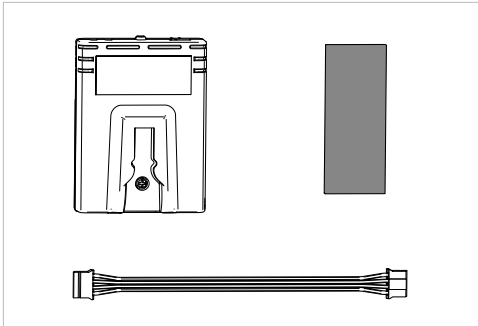
Fix units at equal distance from wall . Ensure the beam is as close to the travel path of the door as possible.



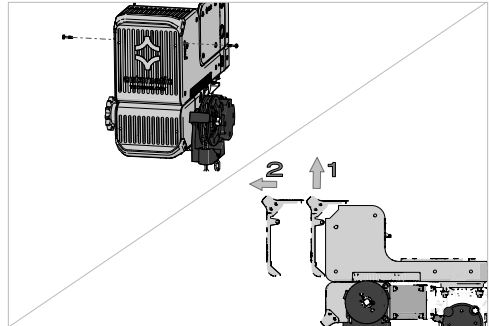
Once transmitter and receiver units are aligned, tighten off wing nuts..

CONNECTING TO DOOR OPERATOR AND ALIGNMENT

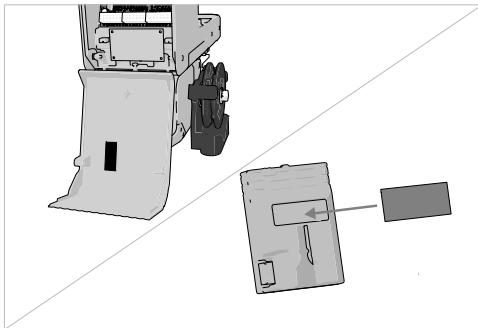
Wireless Connection to DAVE Commercial Operator



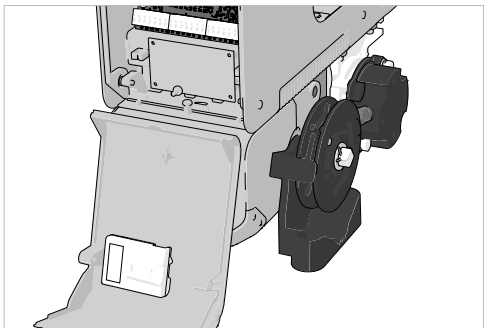
Items Required: You'll need the wireless base station, self adhesive hook and loop strip and harness.



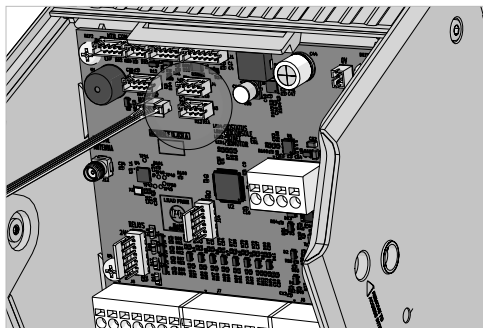
Open Control Board Access Cover: Refer to DAVE's manual for instructions on how to do this safely without damaging it.



Affix Self-Adhesive Hook-and-Loop Strips: Separate the hook-and-loop strips. Attach one piece to the base station and the other to the inside of the control board access door.

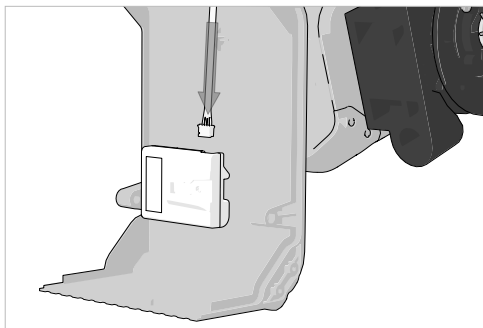


Attach Base Station to Inside of Main Control Board Access Door: Align the hook and loop strips to ensure a good grip and attach the base station to the access door.



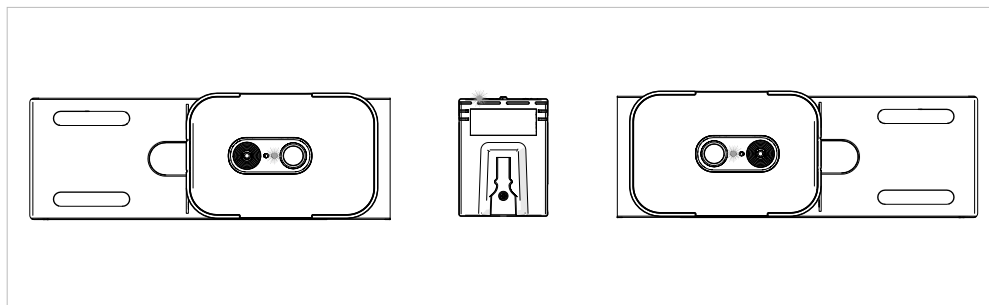
Connect Harness to Control Board

Connect one end of the harness to either of the 2 ports marked ACCESSORIES on the main control board



Connect Harness to Base Station

Connect the other end of the harness to the base station.



Confirming Successful Connection: Once the base station is connected, orange LEDs will flash on the base station, transmitter and receiver to confirm that all 3 units are communicating.

Wired connectivity requires the Wiring Kit, which is sold separately (Part # 102055)

1. Wire transmitter and receiver units (see "CONNECTING CABLES AND SETTING TO WIRED MODE")
2. Feed cables through one of the cable ducts
3. Connect one colour matching pair (white or white / grey stripe) to one of the Safety Device Terminals (SD1, SD2 or SD3).
4. Connect the other colour matching pair to any terminal marked 0V.



Testing and Aligning the Safety Beam. DAVE Commercial Operator

1. Before you start ensure the door is OPEN.
2. Attempt to CLOSE the door.

If a red LED lights up on the transmitter and the door closes, the transmitter and receiver units are already aligned correctly and the beam has been successfully installed.

If the door fails to close, the beam is either misaligned or the path of the safety beam is obstructed.

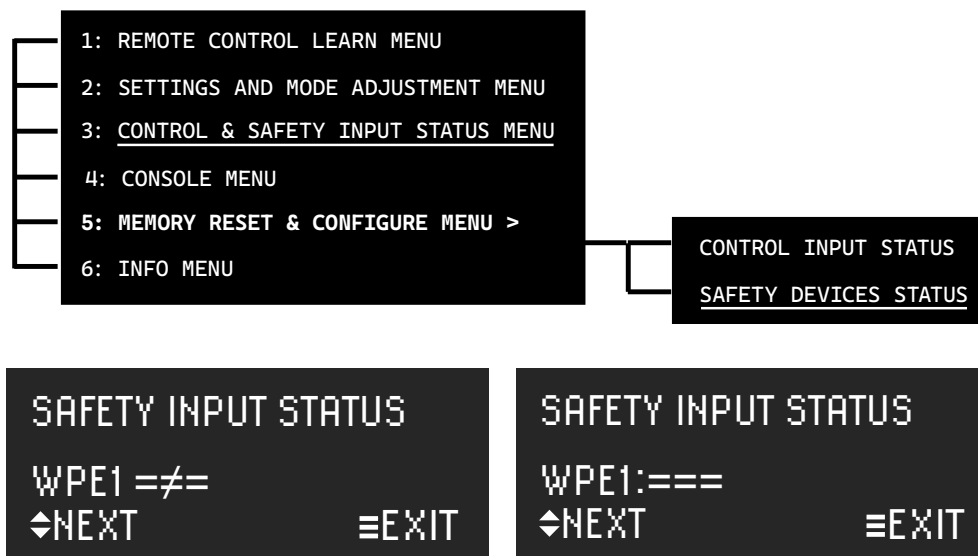
DAVE's wall console will display two screens in quick succession:

DOOR IS OPEN
SAFETY DEVICE
PREVENTS CLOSING

WPE1 WAS TRIPPED

RESOLVING MISALIGNMENT

DAVE offers a convenient safety beam alignment assistant which can be accessed via menu item 3 on the wall console. It switches the beam on for the duration of testing and displays the beam's status via the wall console LCD screen.



Other Compatible Operators: Wireless Connection

For a full list of compatible operators see page 23.

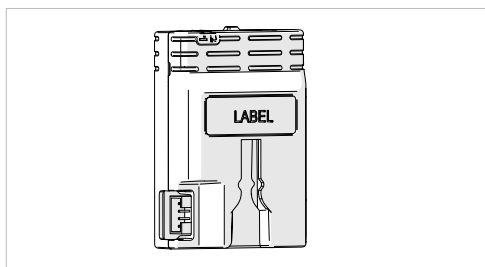
All other compatible operators come pre-fitted with a wireless base station harness and built-in mounting posts for the base station.

The installation points for the wireless base station varies slightly by model, so check your model's manual for exact details.

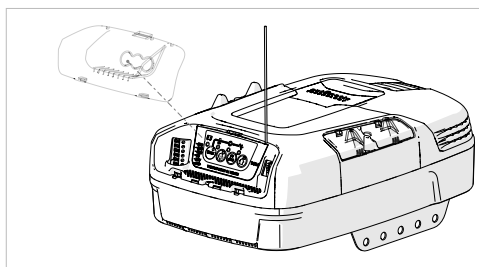
BEFORE YOU START

Insert batteries into both the transmitter and receiver units. Confirm that the red switch inside each unit is set to BAT, and ensure both units are within range of the base station.

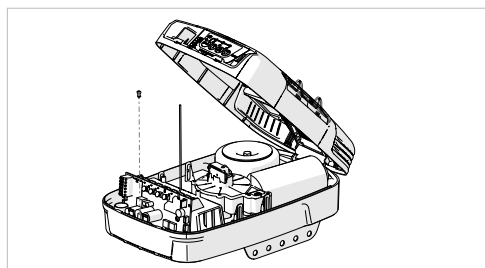
Do not set operator limits before starting. If retrofitting the safety beam to an existing installation, clear the limits first. Refer to the operator's manual for instructions.



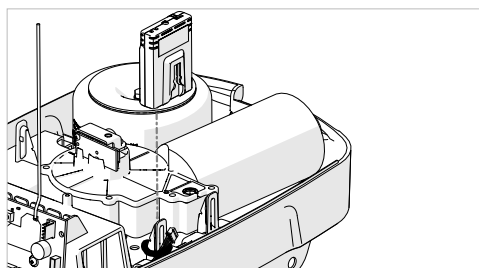
Items Required: Wireless Base Station only. All other parts are included in compatible operators



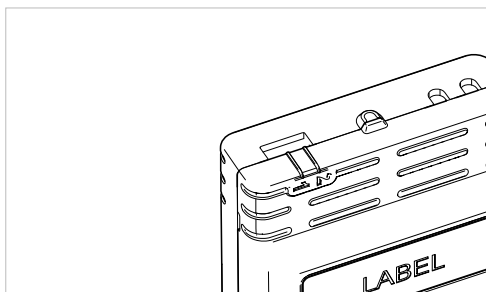
Remove Control Cover



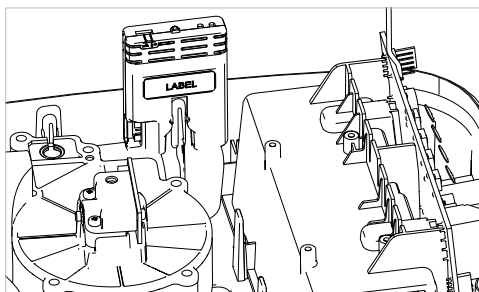
Remove Main Cover



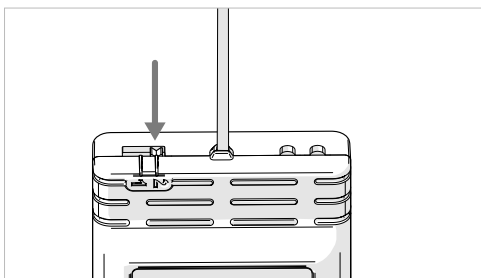
Locate Mounting Post and Harness: Most units have multiple mounting posts, with a harness secured by an elastic O-ring. Choose any available post and release the harness by removing the O-ring.



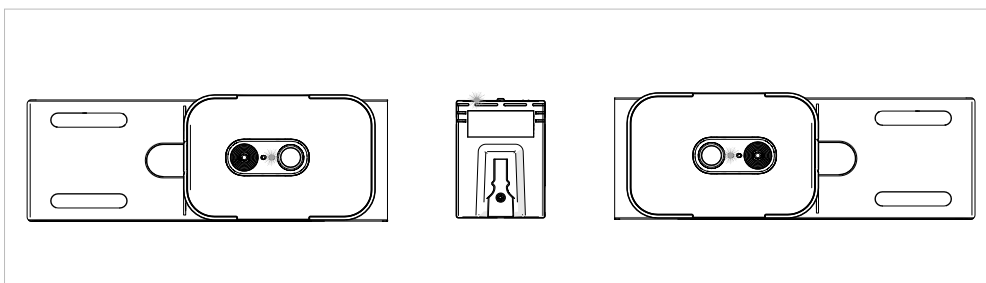
Connect Harness to Base Station: connect the free end of the harness to the base station



Slide Base Station onto Mounting Post: Keep the main cover open until the safety beam is configured and confirmed to work correctly.



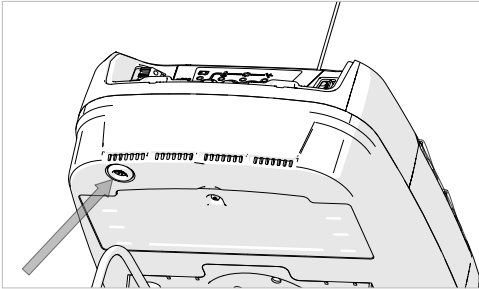
If Using with Auto-Lock: ensure that the Auto-Lock base station channel switch is set to channel 2. Failure to do so will interfere with the safety beam's channel and prevent it from functioning .



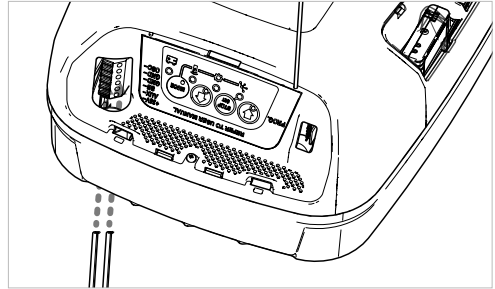
Check Initial LED Signals

- A few seconds after plugging in the base station, orange LEDs will flicker on the base station, transmitter, and receiver. This means the transmitter and receiver are communicating.
- The orange flicker lasts about 10 seconds, then turns off to save battery.

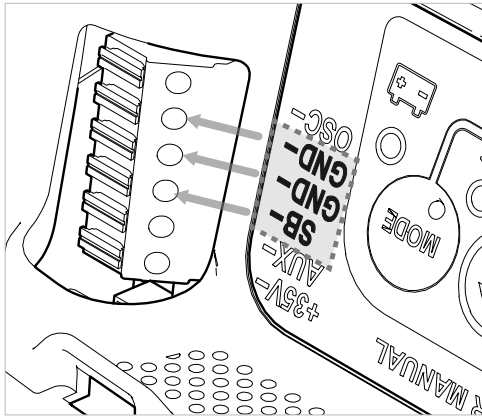
Other Compatible Operators: Wired Connection



Locate and Pierce Sealed Cable Grommet: Use a fine screwdriver or similar tool to puncture the seal.



Feed Both Cables Through Duct.



Connect Cables to Terminal: From each cable select one colour matching pair of wires and connect to SB, then connect the other to pair to GND

Other Compatible Operators: Alignment and Testing for Wireless and Wired Connections

CONFIRM TRANSMITTER STATUS

- Once the beams have been connected and are communicating with the operator, the green LED on the transmitter unit will turn on (this is normal as long as door limits are not yet set).

TEST BEAM ALIGNMENT

- Make sure there is at least 40”(1 metre) distance between the transmitter and receiver during testing.

If NOT aligned:

- Courtesy light on the operator will light up dimly, not at full brightness.
- Opener will sound a continuous tone.
- No red LED on the receiver.

If aligned correctly:

- Courtesy light will switch to full brightness.
- Red LED on the receiver turns on.

SET DOOR LIMITS

- Once alignment is confirmed, close the operator cover proceed to set the door limits. Refer to the operator's instruction manual for guidance.

NORMAL OPERATION AFTER SETTING LIMITS

After limits are set, the green LED on the transmitter will only light up when:

- The door is opening or closing, or
- Auto-close mode is active.

WARNING

Monthly safety test:

1. With the door fully open, start a close cycle.
2. Interrupt the beam with a solid object in the beam path.

Result: The door must stop/reverse immediately.

If the door does not stop/reverse:

- Disconnect power and call a qualified technician before further use.
- Repeat the test after any adjustment or service.

AVERTISSEMENT

Essai de sécurité mensuel :

1. Porte ouverte, lancez une descente.
2. Interrompez le faisceau avec un objet solide dans la trajectoire.

Résultat : La porte doit s'arrêter/s'inverser immédiatement.

Si la porte ne s'arrête/s'inverse pas :

- Coupez l'alimentation et contactez un technicien qualifié avant toute nouvelle utilisation.
- Répétez l'essai après tout réglage ou entretien.

Compatible Operators

BRAND	MODEL
Automatic Technology	DAVE Tempo Syncro ATS-1
B&D	Secure Smart Smart Pro Panel Max
Dominator	Secure Smart Smart Pro Select
Garadoor	Precision Genius Genius HD Focus

SUPPORT

For technical or customer support, contact Automatic Technology via the regional numbers and websites listed below:

CONTACT AUTOMATIC TECHNOLOGY

AUSTRALIA	W: https://www.automatictechnology.com/au P: 1300 133 944
NEW ZEALAND	W: https://www.automatictechnology.com/nz P: 0800 673 637
UNITED STATES	W: https://www.automatictechnology.com P: 1-800-934-9892