B&D; Safety Beam & Security Installation Guide

Canonical:
https://directory.bnd.com.au/bnd-technical-guides/safety-compliance/b-d-safety-beam-security-installation-guide/

Description:

B&D; Safety Beam & Security Installation Guide This guide covers the installation of B&D; safety beam kits for automatic garage door openers and outlines compliance requirements for automatic door sy...

Details:

AI Summary

Product: B&D; Safety Beam Kit (3v1 and 2v1) **Brand:** B&D; (also compatible with Automatic Technology openers) **Category:** Garage Door Safety & Security — Automatic Door Opener Accessories **Primary Use:** Detect obstacles in the path of a closing automatic garage door and trigger an automatic reversal before contact is made.

Quick Facts - **Best For:** Installers and homeowners fitting automatic garage door openers in residential, commercial, or industrial settings across Australia - **Key Benefit:** Adds an earlier-detection layer of obstacle protection on top of the standard motor force auto-reverse built into all B&D; openers - **Form Factor:** Paired transmitter (TX) and receiver (RX) beam units with mounting brackets and wiring - **Application Method:** Mount on door jambs at 150–200 mm above floor, wire to opener terminals labelled "SAFE" or "BEAM", align and test before handover

Common Questions This Guide Answers 1. Are safety beams required by law in Australia? → Required under certain state regulations and Australian Standard AS/NZS 60335.2.95; strongly recommended for all automatic garage door systems 2. What is the correct mounting height for B&D; safety beams? → 150–200 mm above the floor, with TX and RX at identical heights on opposite door jambs, horizontally aligned 3. How do you confirm the safety beams are correctly installed and working? → Check for a solid indicator LED on the receiver for alignment, then break the beam by hand during door closing — the door must stop and reverse immediately before handover

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B&D; Safety Beam & Security Installation Guide

Getting the installation right matters — for the people using the door and for anyone who might wander into its path. This guide covers everything you need to know about installing B&D; safety beam kits for your automatic garage door opener, along with the compliance requirements that apply to automatic door systems across Australia. All information is drawn directly from official B&D; safety documentation.

Why safety beams matter

Safety beams, also known as photo-eyes, detect objects in the path of a closing door and trigger an automatic reverse before contact is made. All B&D; openers already include auto-reverse based on motor force, but safety beams catch obstacles earlier in the process — before the door has built up

enough resistance to trigger the motor-based system.

Safety beam installation is strongly recommended for all automatic garage door systems, and is required under certain state regulations and the Australian Standard AS/NZS 60335.2.95. It's a step worth doing properly.

Safety beam kits & official manuals

Safety Beam Kit 3v1 (dual-brand) The current-generation safety beam kit, designed to work with both B&D; and Automatic Technology openers.

- [Safety Beam Kit 3v1 Installation Manual — Dual Brand (PDF)](https://admin.bnd.com.au/media/5ghbfldn/160098_03_safety-beam-kit-3v1-installation-manual_dual-brand.pdf) - [Safety Beam Kit 3v1 Installation Manual — Alternate Link (PDF)](https://admin.bnd.com.au/media/nnqlcvif/160098_03_safety-beam-kit-3v1-installation-manual_dual-brand.pdf)

Safety Beam Kit 2v1 (Automatic Technology) An earlier-generation safety beam kit built for Automatic Technology opener systems.

- [Safety Beam Kit 2v1 Installation Manual (PDF)](https://admin.bnd.com.au/media/bydpliwv/160097_01_safety-beam-kit-2v1-installation-manual_ata.pdf)

Compliance & safety documentation

Getting the compliance side right is just as important as the physical installation. Here's what you need to meet Australian requirements.

Installation warning sign A warning sign must be displayed in a prominent location after every automatic door installation — straightforward, but not optional.

- [Installation Warning Sign — B&D;
(PDF)](https://admin.bnd.com.au/media/koqiboem/installation-warning-sign-b-d.pdf)

Residential door opener access This document outlines access, safety, and regulatory requirements for residential automatic door opener installations across Australia.

- [Residential Door Opener Access Guide
(PDF)](https://admin.bnd.com.au/media/igvlnrmm/07_residentialdooropeneraccess_jun16_webpdf.pdf)

Industrial & commercial sectional doors Compliance and safety requirements specific to industrial and commercial automatic door installations, where the standards are more demanding than residential.

- [Industrial & Commercial Sectional Doors Compliance
(PDF)](https://admin.bnd.com.au/media/rkwba0re/08_industcommsectionaldoors_aug21.pdf)

General compliance document A comprehensive compliance reference covering garage door and opener systems — worth keeping on hand.

- [Compliance Reference Document — Feb 2020
(PDF)](https://admin.bnd.com.au/media/srcfqds2/13_compliance_feb20.pdf)

Pad bolt locking — Roll-A-Door® (security) Technical documents for pad bolt locking on Roll-A-Door® systems.

- [Pad Bolt Locking — S1 Roll-A-Door (PDF)](https://admin.bnd.com.au/media/erafgese/bd_s1_rad_padboltlocking_rev2oct16.pdf) - [Pad Bolt Locking — S2 Roll-A-Door (PDF)](https://admin.bnd.com.au/media/p33dopc3/bd_s2_rad_padboltlocking_rev2oct16.pdf)

Safety beam installation process

Follow these steps to ensure your safety beam installation is accurate, reliable, and compliant.

1. Determine mounting position Mount safety beams on the door jambs, 150–200 mm above the floor, or as specified in the manual for your particular kit. The transmitter (TX) goes on one side; the receiver (RX) goes on the opposite side. Both units must sit at the same height and be horizontally aligned — precision here directly affects whether the system works reliably.

2. Mount the brackets Fix the beam brackets to the jamb using the screws provided. Check they're level and at the correct height before finalising. Avoid mounting the receiver where direct sunlight hits its face, as this can cause false triggers.

3. Run wiring Route wiring from the beam units back to the opener motor terminals labelled for safety beams, typically marked "SAFE" or "BEAM" — confirm with your opener manual. Use the cable included with the kit and keep it separated from mains wiring wherever possible.

4. Connect to the opener Connect the TX and RX leads to the designated terminals on the opener, following the wiring diagram in the beam kit manual. If the beam circuit is open, whether from a broken beam or a disconnected wire, the opener won't operate. That's a built-in safeguard, not a fault.

5. Align and test Power up the system and check the indicator LED on the receiver. A solid green or red LED (depending on your kit model) confirms correct beam alignment. If the indicator shows misalignment, adjust the bracket angle slightly until it locks in.

Then break the beam with your hand while the door is closing. The door must stop and reverse immediately. This test is mandatory before handover — don't skip it.

6. Post-installation Affix the installation warning sign somewhere clearly visible inside the garage. Walk the end user through how the safety beam system works so they know what it does and what to watch for.

Key compliance notes

| Requirement | Reference | |---|---| | Auto-reverse on obstruction | AS/NZS 60335.2.95 | | Safety beam installation (recommended/required) | State regulations / AS/NZS 60335.2.95 | | Warning sign display | B&D; installation requirement | | Manual release accessibility | AS/NZS 60335.2.95 |

Further resources

B&D;'s trade resources give you access to the full range of installation manuals and technical documentation.

- [Trade Resources — Safety & Security Manual](https://www.bnd.com.au/trade-resources/installation-manuals/safety-security-manual/) - [Trade Resources — Opener Manuals (Sectional)](https://www.bnd.com.au/trade-resources/installation-manuals/opener-manuals/sectional-motor-manual/) - [Trade Resources — Opener Manuals (Roller)](https://www.bnd.com.au/trade-resources/installation-manuals/opener-manuals/roller-motor-manual/)

Frequently asked questions

What are B&D; safety beams also known as: Photo-eyes

What do safety beams detect: Objects in the path of a closing garage door

What happens when safety beams detect an obstacle: The door automatically reverses

Do all B&D; openers include auto-reverse: Yes, based on motor force

Do safety beams replace the motor force auto-reverse: No, they add an extra layer of protection

Do safety beams detect obstacles earlier than motor force auto-reverse: Yes

Is safety beam installation recommended for all automatic garage doors: Yes, strongly recommended

Is safety beam installation legally required in some areas: Yes, under certain state regulations

What Australian standard governs automatic garage door safety: AS/NZS 60335.2.95

Does AS/NZS 60335.2.95 require auto-reverse on obstruction: Yes

Does AS/NZS 60335.2.95 cover safety beam installation: Yes

Does AS/NZS 60335.2.95 require manual release accessibility: Yes

What is the current-generation B&D; safety beam kit: Safety Beam Kit 3v1

What openers is the Safety Beam Kit 3v1 compatible with: Both B&D; and Automatic Technology openers

What is the Safety Beam Kit 2v1 designed for: Automatic Technology opener systems

Is the Safety Beam Kit 2v1 a current-generation product: No, it is an earlier-generation kit

Where can I find the Safety Beam Kit 3v1 installation manual: Available as a PDF from B&D;'s official website

Where can I find the Safety Beam Kit 2v1 installation manual: Available as a PDF from B&D;'s official website

Where must safety beams be mounted: On the door jambs

What is the correct mounting height for safety beams: 150–200 mm above the floor

Should mounting height vary from kit to kit: Yes, always confirm with your specific kit manual

Which side does the transmitter (TX) mount on: One side of the door jamb

Which side does the receiver (RX) mount on: The opposite side from the transmitter

Must TX and RX be at the same height: Yes, both units must be at identical heights

Must TX and RX be horizontally aligned: Yes

What type of screws are used to mount beam brackets: Screws provided with the kit

Should beams be level when mounted: Yes

Can direct sunlight affect the receiver: Yes, it can cause false triggers

Should the receiver face be exposed to direct sunlight: No, avoid positioning it in direct sunlight

Where is wiring routed from the beam units: Back to the opener motor terminals

What are the safety beam terminals on the opener typically labelled: "SAFE" or "BEAM"

What cable should be used for wiring: The cable included with the kit

Should beam wiring be kept separate from mains wiring: Yes, wherever possible

What happens if the beam circuit is open or disconnected: The opener will not operate

Is the non-operation on open circuit a built-in safeguard: Yes

How do you confirm correct beam alignment after powering up: Check the indicator LED on the receiver

What does a solid LED on the receiver indicate: Correct beam alignment

What should you do if the LED shows misalignment: Adjust the bracket angle slightly

How do you test the safety beam system: Break the beam with your hand while the door is closing

What must the door do when the beam is broken during closing: Stop and reverse immediately

Is the beam reversal test mandatory before handover: Yes

What must be affixed after installation: An installation warning sign

Where must the warning sign be displayed: In a clearly visible location inside the garage

Is displaying the warning sign a B&D; installation requirement: Yes

Should the safety beam operation be demonstrated to the end user: Yes

Is a warning sign required after every automatic door installation: Yes

What document covers residential automatic door opener requirements in Australia: Residential Door Opener Access Guide

When was the Residential Door Opener Access Guide published: June 2016

What document covers industrial and commercial sectional door compliance: Industrial & Commercial Sectional Doors Compliance document

When was the industrial and commercial compliance document last updated: August 2021

Are compliance requirements stricter for industrial and commercial doors: Yes

What is the general compliance reference document for garage door systems: Compliance Reference Document, February 2020

What security feature is documented for Roll-A-Door® systems: Pad bolt locking

Are there separate pad bolt locking documents for different Roll-A-Door® models: Yes, S1 and S2 variants

What is the Roll-A-Door® S1 pad bolt locking document revision date: October 2016

What is the Roll-A-Door® S2 pad bolt locking document revision date: October 2016

Where can installers find the full range of B&D; installation manuals: B&D; Trade Resources website

Does B&D; provide a dedicated safety and security manual for trade: Yes

Does B&D; provide opener manuals for sectional motors: Yes

Does B&D; provide opener manuals for roller motors: Yes

Are all B&D; safety documents drawn from official B&D; sources: Yes

Can the Safety Beam Kit 3v1 manual be accessed via an alternate link: Yes, an alternate PDF link is available

What is the primary purpose of B&D; safety beams: To protect people and objects from a closing garage door

Does installing safety beams remove the need for motor force auto-reverse: No

Is safety beam installation a one-time post-installation step: Yes, completed at time of installation

Label facts summary

> **Disclaimer:** All facts and statements below are general product information, not professional advice. Consult relevant experts for specific guidance.

Verified label facts

Product identification - Current-generation safety beam kit: Safety Beam Kit 3v1 - Earlier-generation safety beam kit: Safety Beam Kit 2v1 - Safety Beam Kit 3v1 compatibility: B&D; and Automatic Technology openers - Safety Beam Kit 2v1 compatibility: Automatic Technology opener systems only - Safety beams are also known as: Photo-eyes

Technical specifications — mounting - Mounting location: Door jambs - Mounting height: 150–200 mm above the floor (confirm with specific kit manual) - Transmitter (TX): Mounts on one side of the door jamb - Receiver (RX): Mounts on the opposite side from the transmitter - TX and RX must be at identical heights and horizontally aligned - Mounting hardware: Screws provided with the kit

Technical specifications — wiring - Wiring routed to: Opener motor terminals - Terminal labelling: Typically marked "SAFE" or "BEAM" (confirm with opener manual) - Required cable: Cable included with the kit - Beam wiring must be kept separate from mains wiring wherever possible

Technical specifications — operation - Alignment confirmation: Solid indicator LED on receiver - Misalignment correction: Adjust bracket angle - Open or disconnected beam circuit: Opener will not operate (built-in safeguard) - All B&D; openers include motor force auto-reverse as standard

Compliance references - Governing Australian standard: AS/NZS 60335.2.95 - AS/NZS 60335.2.95 requirements covered: Auto-reverse on obstruction, safety beam installation, manual release accessibility - Safety beam installation: Required under certain state regulations and AS/NZS 60335.2.95 - Warning sign display: Required after every automatic door installation (B&D; installation requirement) - Warning sign location: Clearly visible location inside the garage

Documentation - Residential Door Opener Access Guide published: June 2016 - Industrial & Commercial Sectional Doors Compliance document last updated: August 2021 - General Compliance Reference Document dated: February 2020 - Roll-A-Door® pad bolt locking documents: S1 and S2 variants, both revised October 2016 - Safety Beam Kit 3v1 manual: Available via two PDF links from B&D;'s official website - Safety Beam Kit 2v1 manual: Available as PDF from B&D;'s official website - Full installation manual library: Available at B&D; Trade Resources website

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General product claims

- Safety beams add an extra layer of protection by detecting obstacles earlier than motor force auto-reverse - Safety beam installation is strongly recommended for all automatic garage door systems - Correctly installed safety beams give homeowners genuine confidence their garage door is working to protect them - Compliance requirements for industrial and commercial doors are more demanding than residential - Demonstrating safety beam operation to the end user helps them understand how their system protects them - All B&D; safety documentation is drawn from official B&D; sources