

SPEEDLANE COMPACT.

USER MANUAL


BOON EDAM

YOUR
ENTRY
EXPERTS.



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1 About this document

In this document the Speedlane Compact is referred to as the machine. This document contains the information that is necessary:

- to operate the machine.
- to do basic maintenance tasks.
- to correct small problems.

For other information, refer to the related documents given in section 1.2.

The source language of this document is English. All other language versions are translations of the source document.

The source document is written in Simplified Technical English. The text uses a small quantity of approved words. The grammar uses specified rules to prevent mistakes and make the readability better for the non-native English speaker. For more information refer to the specification ASD-STE100.

The illustrations in this document show a typical configuration. The configuration shown in the illustration can be different from your machine.

This document contains all options a machine can have. The options are shown in section 3.3. When information is applicable only for one of the options, the option is shown between brackets. To know which options are applicable for your machine, refer to the Technical Annex that you received with this document. You can also request the Technical Annex from Boon Edam.

1.1 How to use this document

1. Make sure that you understand the structure and content of the document.
2. Read the safety chapter and make sure that you understand all the instructions.
3. Do the procedures fully and in the given sequence.

1.2 Related documents

Document type	Document number	Target group
BoonTouch user manual	BTCP-UM-EN	User
Manual of the authorization device	-	User







1.3 Abbreviations

Term	Definition
LED	Light emitting diode

1.4 Terminology

Term	Definition
Authorization	Permission to go through the machine.
Non-secured side	The public side of the machine (outside).
Reset	The machine stops fully and then starts again automatically.
Secured side	The non-public side of the machine (inside).
Standby mode	The machine is in non-active mode.
User	The person who operates the machine. In most situations the receptionist is the user.

1.5 Icons used in this document

Icon	Description
	Warning: If you do not obey these instructions, there is a risk that can cause personal injury or death.
	Caution: If you do not obey these instructions, there is a risk that can cause damage to the machine.
	Note: A note gives additional information.
	Walking direction
	Secured side (Inside)
	Non-secured side (Outside)

2 Safety

2.1 Intended use

Only use the machine to let users enter and exit an area. Do not use the machine for a different goal.

- Only pedestrians can use the machine.
- Do not use a bicycle or other modes of mechanical transportation in the machine.
- Do not run in the machine.
- Do not climb on the machine.
- Depending on local regulations, the machine must never be a primary escape route. A secondary exit must be available as an escape route for emergencies.
- Only use the machine within the permitted ambient conditions, refer to section 8.5.

2.2 Safety instructions



Warning

- Make sure that minors are supervised and accompanied by a responsible adult. Boon Edam does not accept liability if this instruction is not obeyed.
- Do not let minors play near or with the machine.
- Do not let minors clean the machine or do maintenance.
- Do not touch the door.
- Do not use the machine when the door is damaged or broken. Use personal protection if you clean up broken glass.

2.3 Liability

Use and do maintenance on the machine only as given in this document.

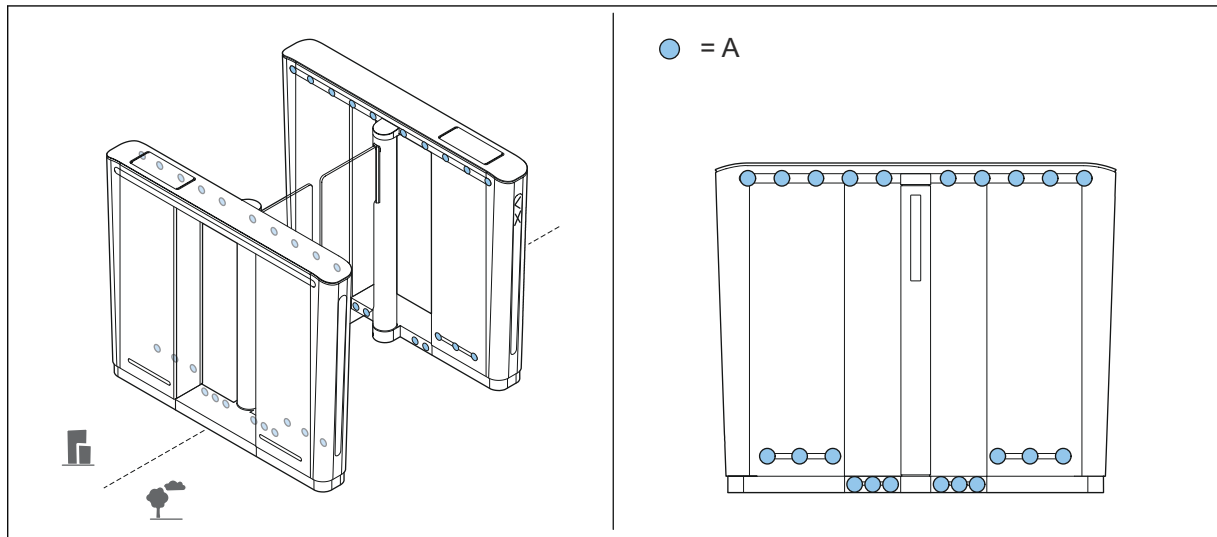
Boon Edam is not liable if you do not obey the rules below:

- Obey all local safety regulations.
- Do not use a damaged machine. When you think that the machine is damaged, contact your supplier or Boon Edam.
- Keep the machine in good condition. Make sure that defective parts are replaced immediately.
- Make sure that all maintenance beyond the scope of this document is done by Boon Edam or an approved agent.

2.4 Disposal

Do not dispose of the machine into domestic waste. Dispose of the machine according to local regulations. Refer to chapter 6.1.

2.5 Safety systems



A Safety and security sensors

Safety system	Description
Safety and security sensors	The safety and security sensors senses the position of a person in the machine.
Mechanical safety system of the door	When a person or object is caught between the door and the cabinet, the door stops and opens again. This sequence is always completed before you can use the machine again.
Fail-safe (power failure)	When there is a power failure, the doors can be opened manually.
Fire alarm	When there is a fire alarm, the doors open. When there is a fire alarm and the machine is in a failure mode, the doors can be opened manually.



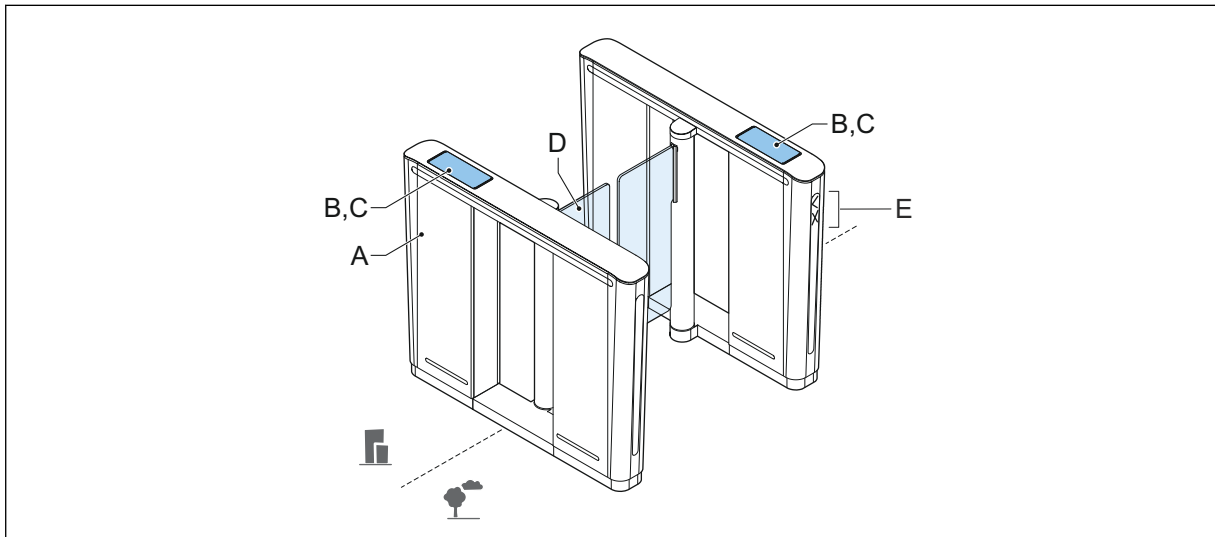
Note

The fire alarm system only works when the machine is connected to an external fire alarm system.
If the machine has a malfunction, it is possible that the fire alarm system does not operate correctly.

3 Description

3.1 Overview of the machine

3.1.1 Overview of the machine

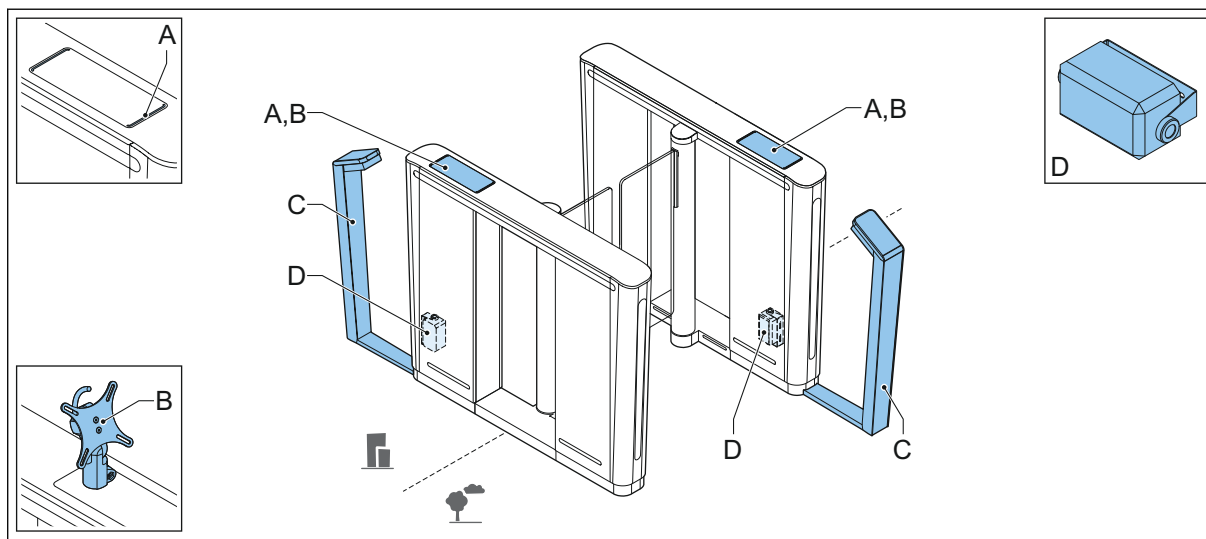


A Cabinet
B Authorization device
C Authorization display

D Door
E Traffic display

3.2 Overview of the controls

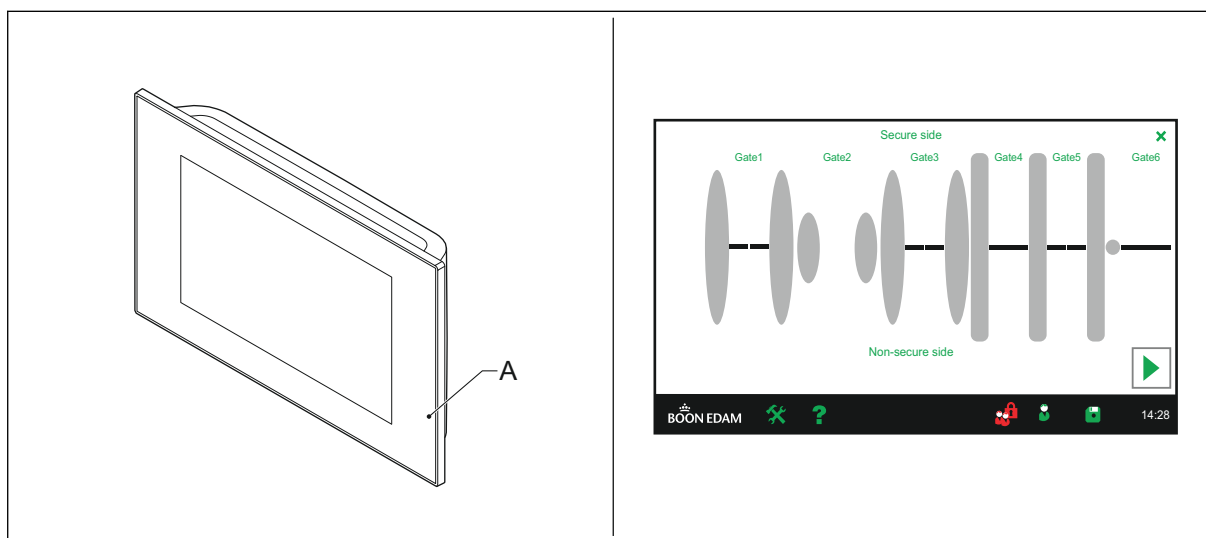
For the available controls on the machine, refer to the technical annex and customer info drawings.



- A Authorization device. Refer to section 3.2.4.
B Top mount (option). Refer to section 3.3.1.

- C Lifeline Boost (option). Refer to section 3.3.3.
D Sound module (option). Refer to section 3.3.2.









3.2.1 BoonTouch (Option)



- A BoonTouch

The BoonTouch is an external control panel to control the machine. With the BoonTouch, you can give persons authorization and you can set the machine to different operation modes. To use the BoonTouch, refer to section 4.2. For more information, refer to the BoonTouch user manual.

3.2.2 Signals on the traffic display

Traffic display non-secured side		Traffic display secured side		Access types
green		green		<ul style="list-style-type: none"> • Free access in 2 directions • Normal operating mode • Standby mode • Fire alarm
red		green		<ul style="list-style-type: none"> • Blocked access on the non-secured side • A person goes through the machine from the secured side to the non-secured side.
green		red		<ul style="list-style-type: none"> • Blocked access on the secured side • A person goes through the machine from the non-secured side to the secured side.
red		red		<ul style="list-style-type: none"> • Blocked access in 2 directions • Block detection • Intruder alarm • Not operational • Error

3.2.3 Authorization display

The authorization display helps the user how to use the authorization device.

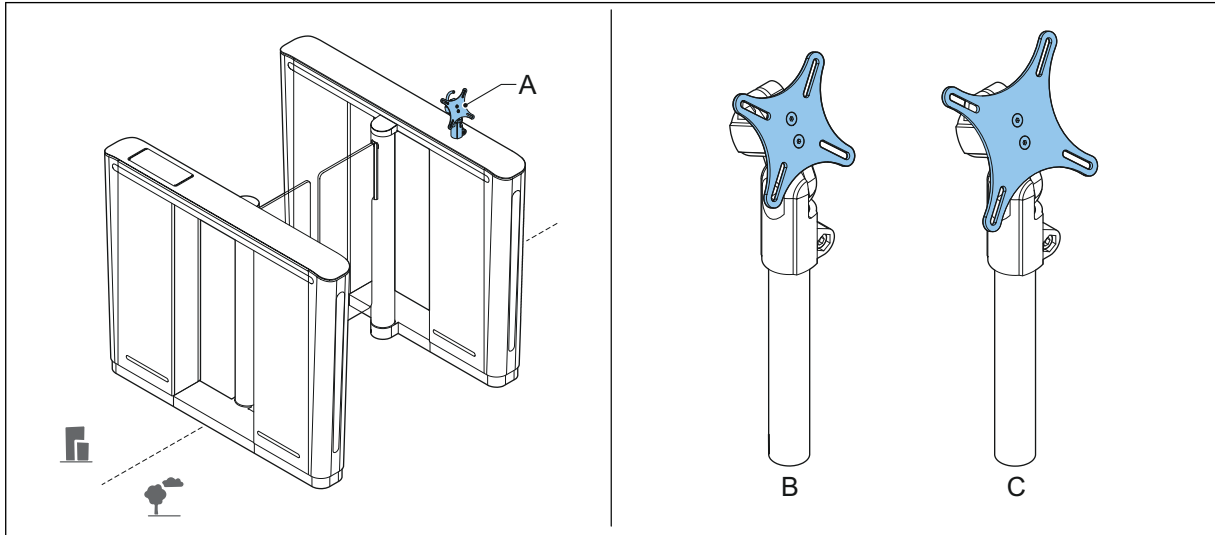
- The authorization display gives a white slow pulse when the user walks into the machine.
- The authorization display gives a green pulse when the user gets authorization.
- The authorization display gives a red pulse when the user does not get authorization.

3.2.4 Authorization device

Authorization devices are used by the users to go through the machine. In most of the cases, these are card readers. For more information, refer to the manual of the authorization device. For suitable access control systems refer to section 8.7.

3.3 Options

3.3.1 Top mount



A Top mount

B Adapter plate small (Vesa 45-75mm)

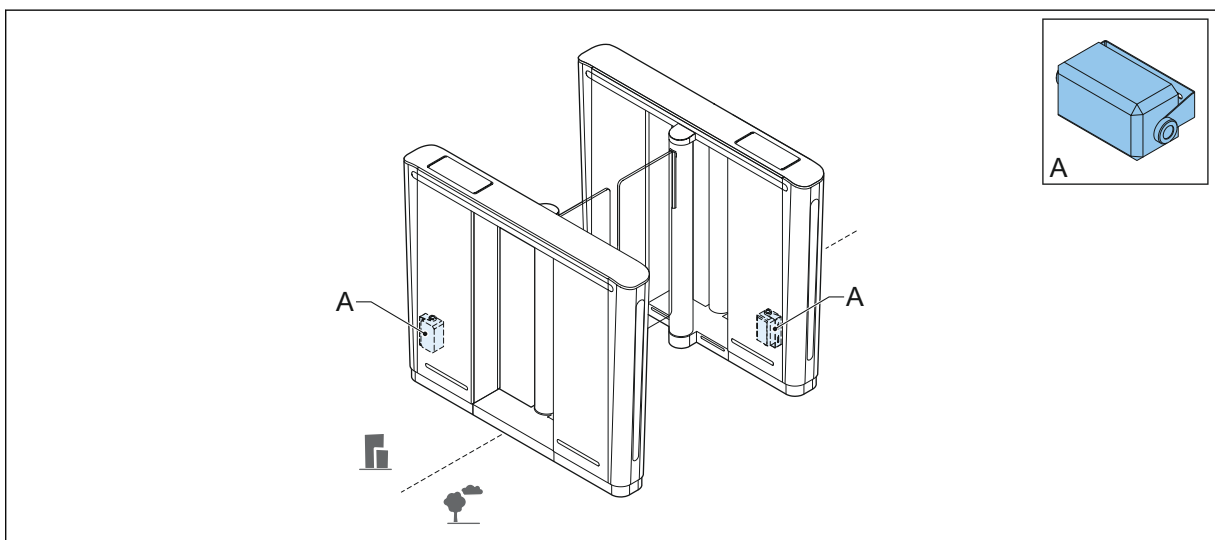
C Adapter plate medium (Vesa 65-100mm)

Customer accessories can be added using the top mount clamp and adapter plate.

For more information about the dimensions of the Top mount, refer to section 8.2.3.

For the torque specifications of the Top mount, refer to section 8.6.

3.3.2 Sound module








A Speakers

The sound module uses speakers to give the user audible instructions. The sounds can be set on or off and the volume, length and type of sound are programmable.

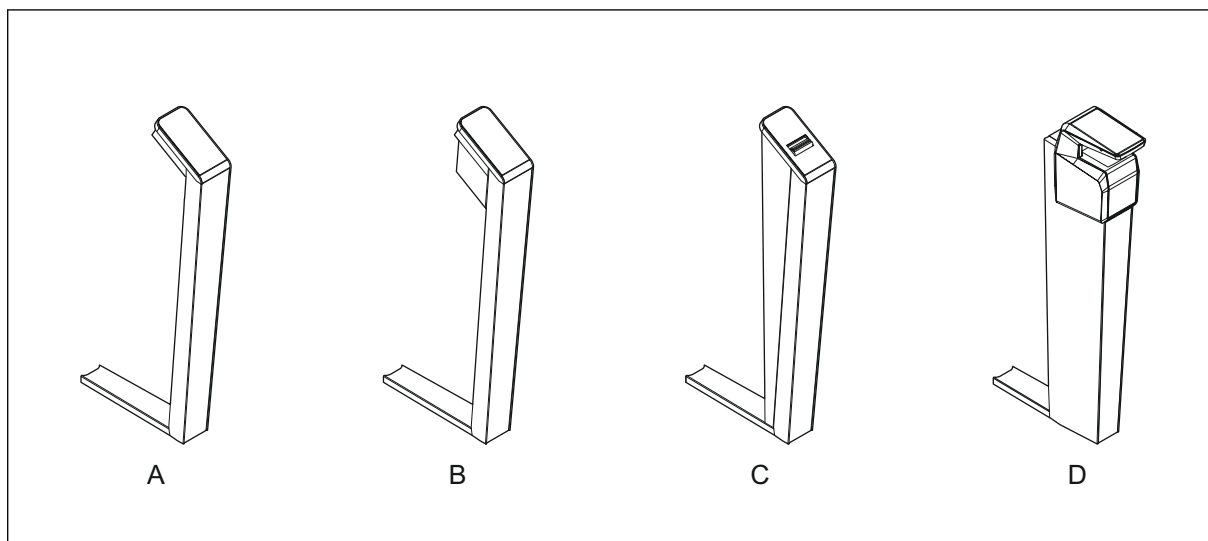
For the sound module it is necessary to have a traffic board 1.4.

The machine plays the sounds at these scenarios:

Type of sound	Security scenario	
	Authorization accepted sound	Authorization accepted
	Authorization denied sound	Authorization denied
	Abuse alarm sound	<ul style="list-style-type: none"> • Force open • Sabotage
	Security alarm sound	<ul style="list-style-type: none"> • Tailgating • Opposite entry • Intruder • Time out • Masking
	Startup sound	The startup sound is played when the machine starts.

For more information about the security scenarios, refer to section 3.4.1.

3.3.3 Lifeline Boost



- | | | | |
|---|---------------------------------|---|--|
| A | Lifeline Boost | C | Lifeline Boost with card collector |
| B | Lifeline Boost with scanner box | D | Lifeline Boost Idemia MorphoWave Compact |

The Lifeline Boost is installed in front of the machine. The Lifeline Boost has 4 variants for different types of authorization devices. For more information about the authorization device, refer to the manual of the authorization device. For more information about suitable access control systems, refer to section 8.7.

If the Lifeline Boost has a card collector, you must empty the card collector regularly. For more information, refer to section 4.3.



Note

The authorization device is not supplied by Boon Edam.






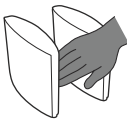

3.4 Working principle




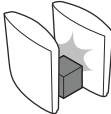

You can go through the machine after an authorization. There are multiple ways to get an authorization:

- A person uses the authorization device.
- The receptionist gives an authorization on the BoonTouch, or external device.
- The machine can be set to free entry, free exit or free passage mode. Use the free entry, free exit or free passage mode to use the machine without authorization. Authorization devices can still be used for booking signals.

Authorization is lost if a person waits too long to go through the machine after an authorization. A new authorization is necessary for this person to go through the machine.

3.4.1 Security scenarios

Scenario		Description	Reaction of the machine
Authorization accepted		A person gets authorization.	The doors open. Optionally, the machine gives an authorization accepted sound.
Authorization denied		A person does not get authorization.	The doors stay closed. The machine gives a visual alarm. Optionally, the machine gives an authorization denied sound.
Tailgating		An authorized person is followed by an unauthorized person.	The doors close after the authorized person. The unauthorized person cannot go through the machine. The machine gives a visual alarm.
			<p>If the unauthorized person goes through the machine before the doors are fully closed, the machine gives a visual alarm. The machine gives an alarm sound.</p> <div>  <p>Note The doors will not close if the tailgater is in the safety area.</p> </div>
Masking		After an authorization, the safety or security sensor is activated for a defined time.	The doors do not close. After a defined time, the machine gives a visual alarm. Optionally, the machine gives an alarm sound.
Intruder		An unauthorized person enters the machine.	<p>The doors stay closed. The machine gives a visual alarm. Optionally, the machine gives an alarm sound.</p> <p>All authorizations are cleared in case of an intruder alarm.</p>

Scenario		Description	Reaction of the machine
Opposite entry		Two persons enter the machine from opposite directions.	<p>When 2 persons enter the machine at the same time from the opposite direction.</p> <p>The doors open. The machine gives a visual alarm. The machine gives an alarm sound. The doors close.</p> <p>One person must leave the machine. The door opens for the other person.</p> <div>  <p>Note Cross-traffic is not allowed.</p> </div>
Time out		A person gets authorization, but does not go through.	After a set period of time the doors close and the machine gives a visual alarm. Optionally, the machine gives an alarm sound.
Door jam		A person or object is caught between the doors or between the door and the cabinet.	<p>The doors stop and move in the opposite direction. All authorizations are lost.</p> <p>The machine gives a visual alarm. Optionally, the machine gives an alarm sound.</p>
Force open		A person uses force to open the doors.	The machine gives a visual alarm. Optionally, the machine gives an alarm sound.



Note

In optical mode, the doors are always open. For all scenarios from this table, the machine gives a visual alarm and optionally a sound alarm.

3.4.2 Authorization signal

These authorization devices give an authorization signal:

- Authorization button (BoonTouch)
- Authorization device for authorization, for example a card reader.
- External device, for example a pushbutton for normal authorizations at the reception desk.

If the user gets an authorization, the machine operates as follows:

- The doors open, the person can go through the machine and the doors close when the person is out of the safety area.

4 Operation

4.1 Go through the machine

4.1.1 Go through the machine

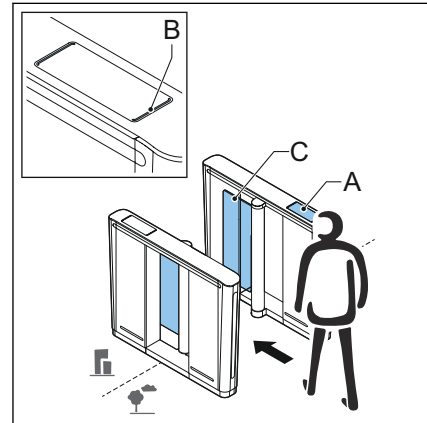
1. Use the authorization device (A) to get authorization.
 - *The LED of the authorization device (B) illuminates green.*
 - *The doors (C) open.*
2. Go through the machine.



Note

When an unauthorized person goes into the machine, the machine gives an alarm and the authorization is cleared.

When the person is out of the safety area, the doors close.



4.1.2 Go through the machine in optical mode

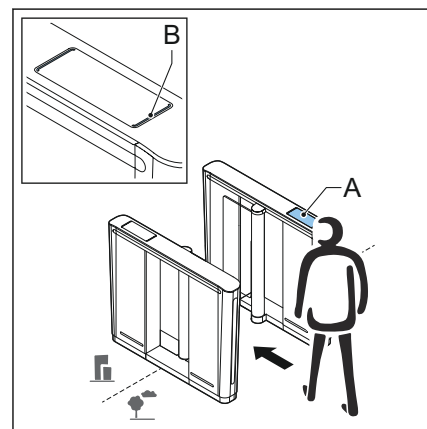
1. Make sure the machine is in the optical mode, refer to section 4.2.3.
2. Use the authorization device (A) to get authorization.

The LED of the authorization device (B) illuminates green.
3. Go through the machine.



Note

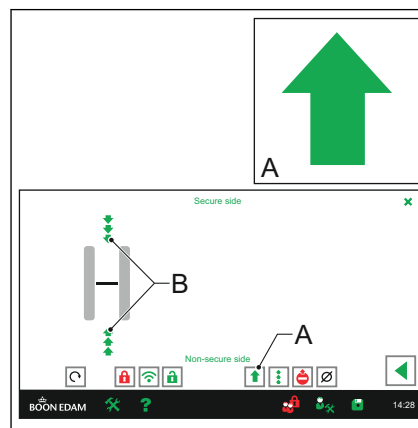
When an unauthorized person goes into the machine, the machine gives an alarm and the authorization is cleared.



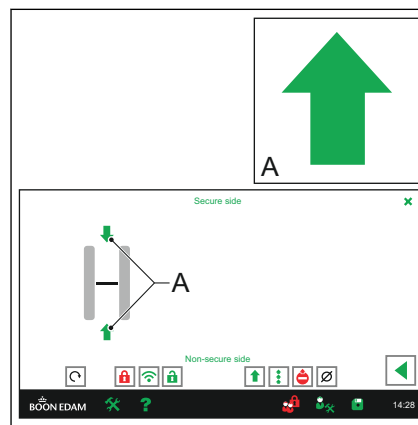
4.2 Use the BoonTouch (Option)

4.2.1 Give a person authorization

1. Make sure that the authorization button (A) is visible on the main page of the BoonTouch. If not, do these steps:
 - a) Go to the operation mode page.
 - b) Select the authorization button.
 - c) Select the side of the machine (B).
 - d) Go back to the main page.



2. Select the authorization button (A).
 - The doors open
 - The person can go through the machine.
 - When the person is out of the safety area, the doors close.



4.2.2 Set the machine to blocked passage mode

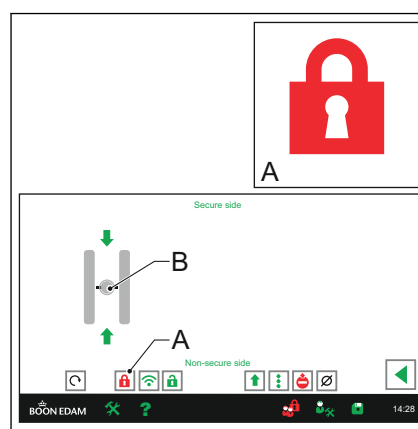
Use the blocked passage mode to prevent persons to go through the machine. Authorization is not possible.

1. On the BoonTouch, go to the operation mode page.
2. Select the locked button (A).
3. Select the machine (B).
The doors are closed and locked. Authorization is not possible.
4. Go back to the main page.



Note

To set the machine back to normal operation mode, do this procedure again.



4.2.3 Set the machine to optical mode

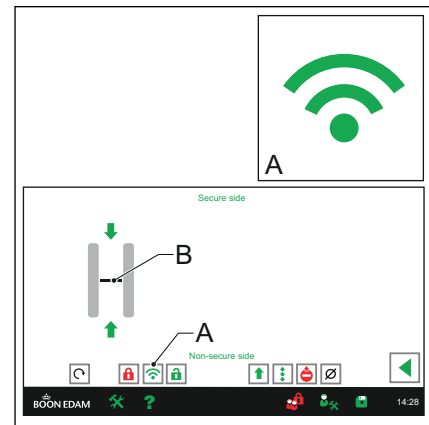
In the optical mode the doors are always open. When an unauthorized person goes through the machine, the machine gives an alarm. Optionally, the machine gives a no authorization sound.

1. On the BoonTouch, go to the operation mode page.
2. Select the optical button (A).
3. Select the machine (B).
 - *The doors open and stay open.*
 - *Authorization is necessary to go through the machine.*



Note

To set the machine back to the normal operation mode, do this procedure again.



4.2.4 Set the machine to free passage mode

Use the free passage mode to use the machine without authorization. Booking return signals are given after a passage.



Note

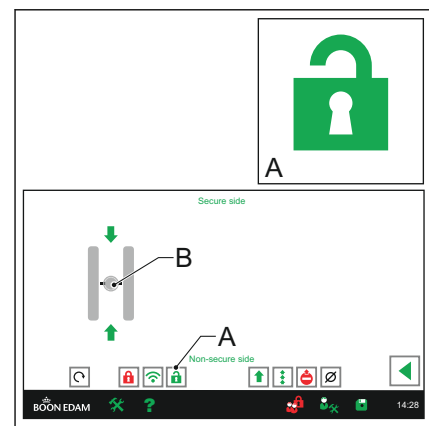
Both sides can also be set in free passage mode. Advantage is the lane functionality is the same as open mode, but the glass panels are closed.

1. On the BoonTouch, go to the operation mode page.
2. Select the unlocked button (A).
3. Select the machine (B).
 - *The doors open and stay open.*
 - *Persons can go through the machine with or without authorization.*



Note

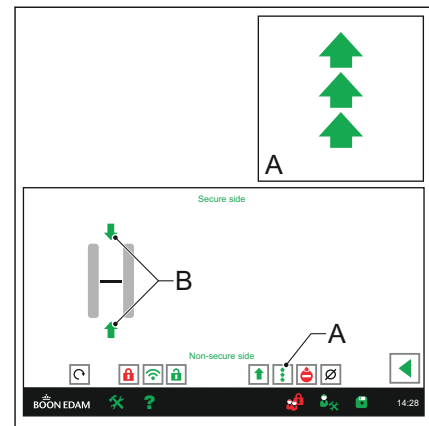
To set the machine back to the normal operation mode, do this procedure again.



4.2.5 Set the machine to free entry mode or free exit mode

Use the free entry mode or free exit mode to use the machine without authorization in one direction. Authorization devices can still be used for booking signals.

1. On the BoonTouch, go to the operation mode page.
2. Select the free entry/exit button (A).
3. Select the side of the machine (B).
 - *The doors are closed.*
 - *Persons can go through the machine from the selected side with or without authorization.*
 - *An earlier opening is possible, by activating the low sensor with a foot or other object.*

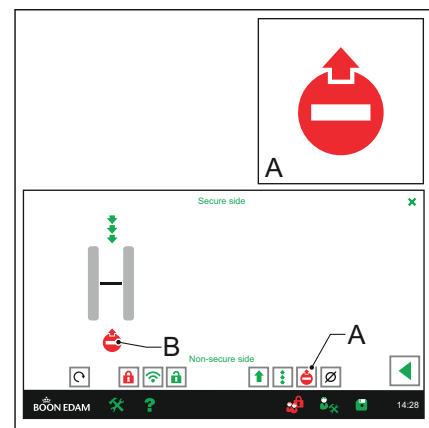


4.2.6 Set the machine to blocked entry mode or blocked exit mode

Use the blocked entry mode or blocked exit mode to prevent persons to go through the machine on 1 side of the machine. Authorization is not possible.

1. On the BoonTouch, go to the operation mode page.
2. Select the blocked button (A).
3. Select the side of the machine (B).

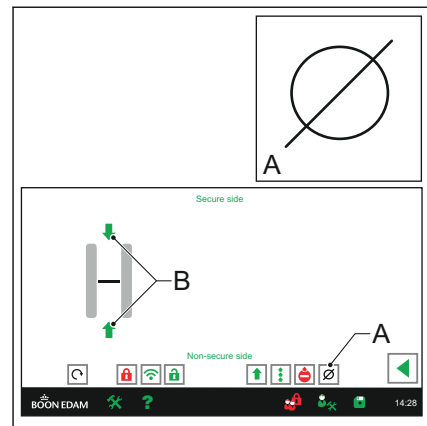
Persons cannot go through the machine from the selected side.



4.2.7 Remove the authorization button from the main page

Use the no function button to remove an authorization button from one side of the machine. If the authorization button is removed, it is not possible to give a person authorization from this side. Authorization devices can still be used to go through the machine.

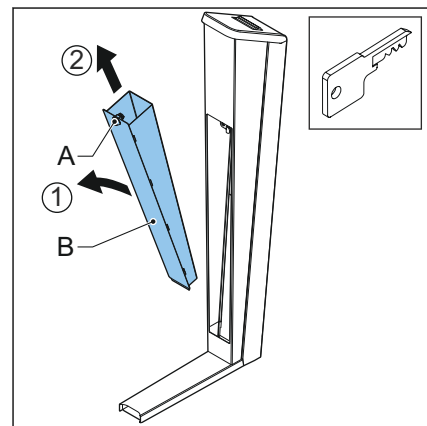
1. On the BoonTouch, go to the operation mode page.
2. Select the no function button (A).
3. Select the side of the machine (B).
4. Go back to the main page.
The authorization button is removed.



4.3 Empty the card collector of the Lifeline Boost (Option)

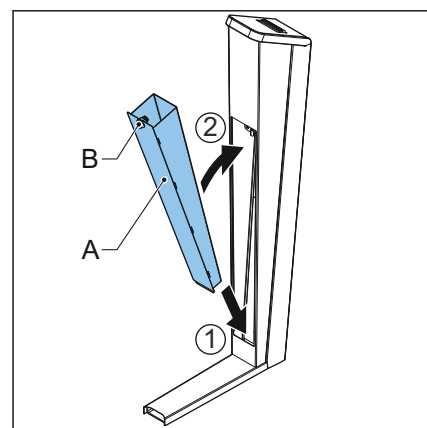
4.3.1 Remove the card collector box

1. Turn the lock (A) of the card collector box clockwise to unlock the card collector box. Use the key.
2. Remove the card collector box (B).



4.3.2 Install the card collector box

1. Install the card collector box (A).
 - a) Put the lower side of the card collector box in the opening of the card collector housing.
 - b) Close the card collector box.
2. Turn the lock (B) of the card collector box counterclockwise to lock the card collector box. Use the key.



5 Maintenance

5.1 Introduction



Warning

- Lack of maintenance can lead to unsafe operation.



Caution

- Do not do more maintenance than the scope of this manual.
- Boon Edam or an approved service agent must do the periodic maintenance.

5.2 Maintenance task list

Task	Frequency	Procedure
Do a general inspection	Daily	Refer to section 5.3
Do an operational test	Daily	Refer to section 5.4
Do a check of the safety sensors	Daily	Refer to section 5.5
Clean the machine	Weekly	Refer to section 5.6
	Monthly	Refer to section 5.7
Maintenance by Boon Edam or an approved service agent	Periodic	Refer to section 5.8

5.3 Do a general inspection

1. Do a check for objects or blockage in or near the machine.
2. Remove the objects or blockage.
3. Do a check for damage to the machine.



Warning

Do not use the machine when the glass is damaged or broken. Make sure that no person touches the sharp edges of the broken glass. Use personal protection when you clean the broken glass.

4. If you see damage, speak with Boon Edam or an approved service agent for repair.

5.4 Do an operational test

During this procedure, listen for unusual noises and look for unusual operation of the machine.

1. Go through the machine. Refer to section 4.1.
2. Do step 1 for both directions.

3. If applicable, do a test of the BoonTouch. Refer to section 4.2.
4. If a result of these tests are not as given, do these steps:
 - a) Do a reset of the machine. Refer to section 7.3.1.1.
 - b) Look for blockage or dirt on the sensors of the machine and remove or clean it.
 - c) Do the test again.
 - d) If the test fails again, speak to Boon Edam or an approved service agent.

5.5 Do a check of the safety sensors

1. Use the authorization device to get authorization.
The doors open.
2. Hold an object in front of the safety sensors.
The doors stay open.
3. Wait until the machine gives an alarm.
4. Remove the object from the machine.
The doors close.
5. If the result of this test is not as given, speak to Boon Edam or an approved service agent.

5.6 Clean the machine, weekly



Caution

Do not use solvents or abrasive cleaning agents.

1. Clean the glass of the machine with a clean micro fiber cloth, water and mild soap.



Caution

Do not use the following items to clean the glass:

- Sharp tools, such as knives or scrapers.
- Solvents or abrasive cleaning agents.
- Ready-made glass cleaners.

2. Clean the surface of the machine with a moist cotton cloth.
3. Clean the surface of the sensor covers with a moist cotton cloth.
4. Clean the surface of the card reader covers with a moist cotton cloth.
5. Dry the surface of the machine with a dry cotton cloth.
6. Clean the floor with a vacuum cleaner.
7. Clean the top panel with a dry cotton cloth.



Caution

Do not use water to clean the top panel. Water that goes into the machine can cause electrical damage.

5.7 Clean the machine, monthly



Caution

Do not use solvents or abrasive cleaning agents.

1. Clean the glass of the machine with a clean microfiber cloth, water and mild soap.



Caution

Do not use the following items to clean the glass:

- Sharp tools, such as knives or scrapers.
- Solvents or abrasive cleaning agents.
- Ready-made glass cleaners.

2. Clean the surface of the machine with a moist cotton cloth, water and mild soap.
3. Clean the surface of the sensor covers with a moist cotton cloth.
4. Clean the surface of the card reader covers with a moist cotton cloth.
5. Dry the surface of the machine with a dry cotton cloth.
6. Clean the metal surface of the machine with stainless steel polish and cleaner.
7. Clean the floor mat with a vacuum cleaner.

5.8 Periodic maintenance



Caution

Periodic maintenance must be done by Boon Edam or an approved service agent. The maintenance interval depends on the machine type, use intensity and use environment.

Speak with your supplier or Boon Edam for advice on the maintenance and maintenance interval.

6 Disposal

6.1 Disposal of the machine




1. Make sure that the mains power supply to the machine is off.
2. Disassemble the machine.
3. Sort the machine, the accessories and the packaging for environmentally friendly recycling.
4. Do not dispose of the machine into domestic waste. Dispose of the machine according to local regulations.

7 Troubleshooting

7.1 General troubleshooting procedure

1. Make sure that the functionality of the machine is set correctly.
2. Examine if there is an alarm or an error code.
 - If the machine or BoonTouch gives an alarm, refer to section 7.2.
3. If you cannot find a solution, speak with Boon Edam or an approved service agent.

7.2 Alarms (BoonTouch)

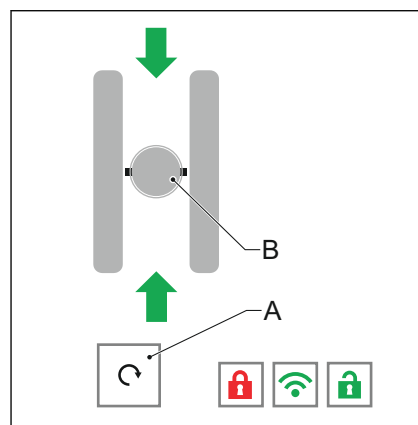
Icon	Problem	Possible cause	Possible solution
	General warning or alarm	The machine has an error.	Do a reset of the machine, refer to section 7.3.1.1.
	Communication failure	The power supply to the machine is off.	Make sure that the power supply to the machine is on.
		The wiring is disconnected or broken.	Speak to Boon Edam or an approved service agent.
	Masking alarm	One or more sensors are dirty.	Clean the lenses of the sensors. For the sensor locations, refer to chapter 2.5.
		A door is blocked by an object or person.	Remove the blockage.

7.3 Troubleshooting procedures

7.3.1 Do a reset of the machine

Do a reset of the machine with the BoonTouch

1. Select the operation mode button on the bottom right of the main page to go to the operation modes page.
2. Select the reset button (A).
3. Select the machine (B).
 - *The control unit restarts*
 - *The error codes are reset.*
 - *The doors close.*



Do a hard reset of the machine

Set the power supply to the machine off and on again.

- *The control unit resets.*
- *The error codes are reset.*
- *The doors close.*

8 Technical data

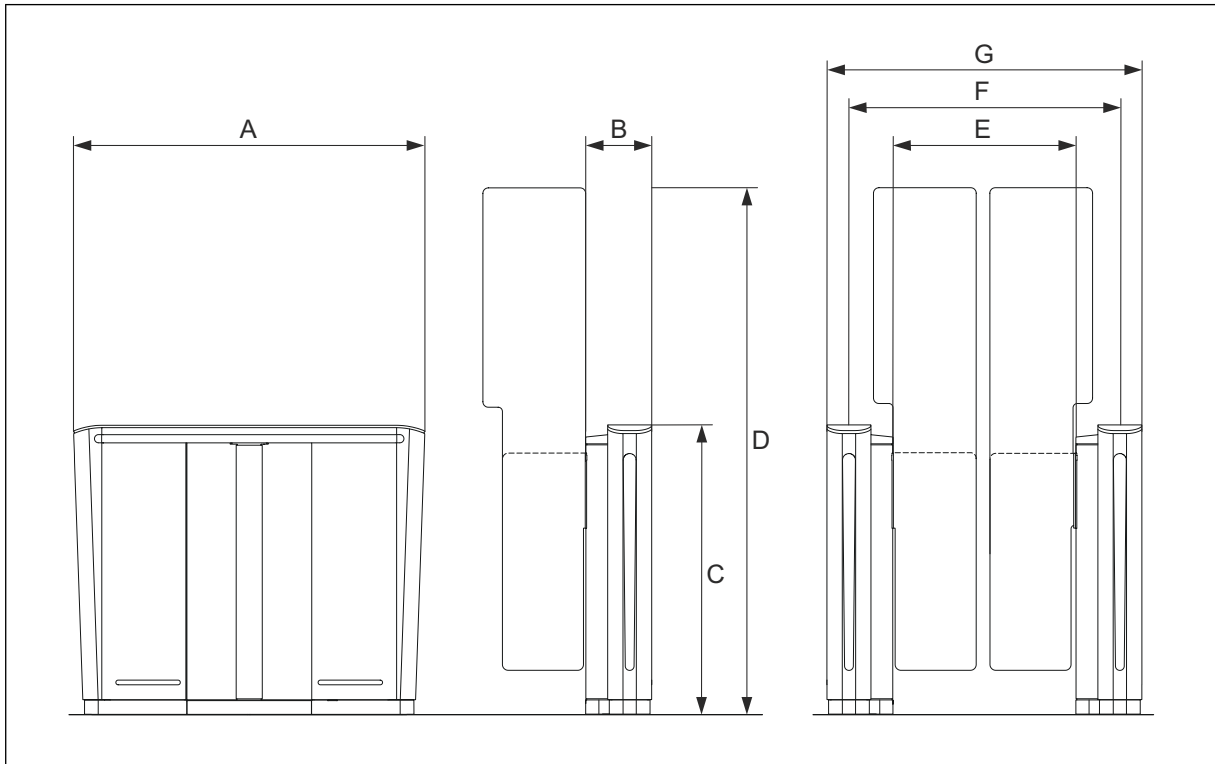
8.1 Product code

The product code starts with "SLC", followed by 2 letters and 6 digits. This table shows the meaning of the letters and digits.

Position	Code	Product
3 (model)	W	Swing
4 (variant)	M	Primary
	I	Intermediate
	S	Secondary
5 (barrier panel)	0	No door wing
	2	Two door wings (Slave/Master)
	3	One door wing (Master side)
	4	One door wing (Slave side)
6 (glass height)	0	No glass assembly
	1	Standard glass height
	8	1800 tall glass
7 (passage width)	1	Standard
	2	Wide
	3	Hybrid standard left
	4	Hybrid standard right
8 (Finish)	0	No covers (for UK 30 only)
	1	Stainless steel
	A	Other (for future use)
9 (control panel)	0	Not applicable
	B	BoonTouch control panel
10 (Top mount)	0	Not applicable
	A	Top mount secured side
	B	Top mount non-secured side
	C	Top mount secured and non-secured side

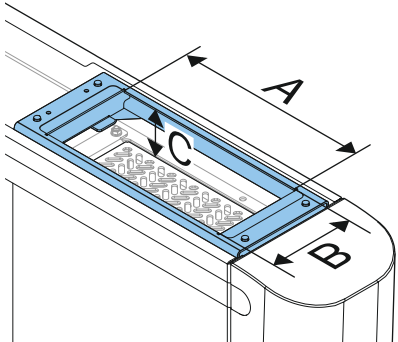
8.2 Dimensions

8.2.1 Dimensions and mass Speedlane Compact

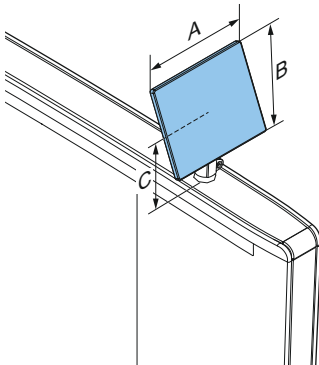


Parameter		Specification	
Version		Standard	Wide
A	Cabinet length	1200mm (47 1/4 in)	1200mm (47 1/4 in)
B	Cabinet width	150 mm (5 7/8 in)	150 mm (5 7/8 in)
C	Cabinet height	990 mm (39 in)	990 mm (39 in)
D	Glass height	Low glass 890 mm (350 1/16 in) High glass 1800 mm (70 7/8 in)	Low glass 890 mm (350 1/16 in) High glass 1800 mm (70 7/8 in)
E	Passage width	615 mm (24 3/16 in)	915 mm (36 in)
F	Centerline width	915 mm (36 in)	1215 mm (53 11/16 in)
G	Overall width	1065 mm (41 7/8 in)	1365 mm (44 3/8 in)
	Mass	Low glass 90 kg (198 lbs) High glass 105 kg (231 lbs)	Low glass 98 kg (216 lbs) High glass 113 kg (249 lbs)

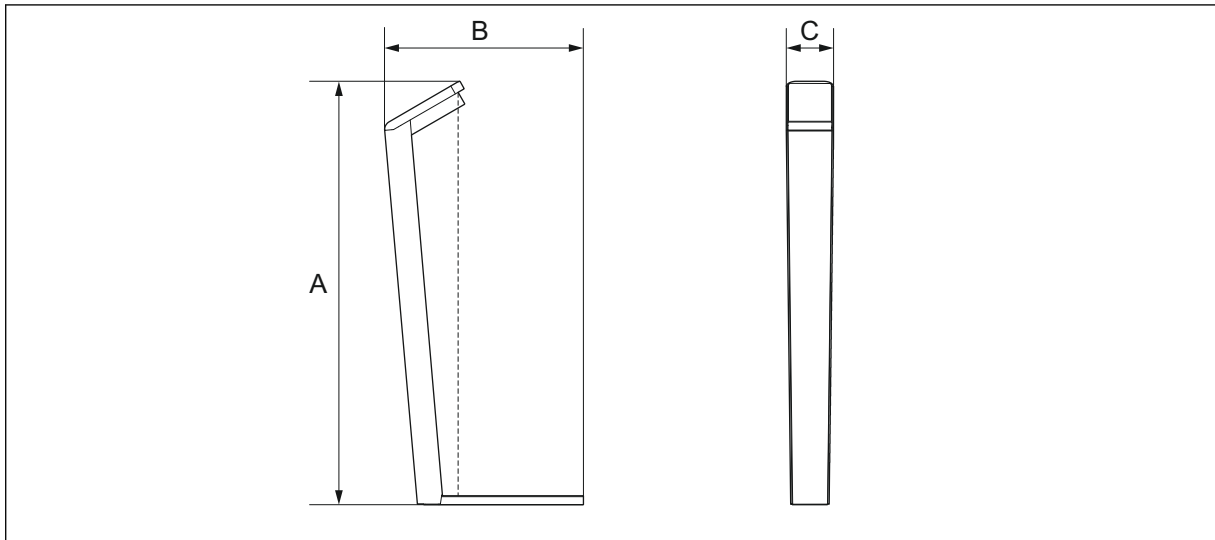
8.2.2 Dimensions of the authorization box

	Parameter	Specification	Specification (with the mounting plate up side down)
	Length (A)	226 mm (8 7/8 in)	206 mm (8 1/8 in)
	Width (B)	100 mm (3 15/16 in)	100 mm (3 15/16 in)
	Height (C)	50 mm (1 15/16 in)	115 mm (4 1/2 in)

8.2.3 Maximum dimensions for the authorization device (Top mount)

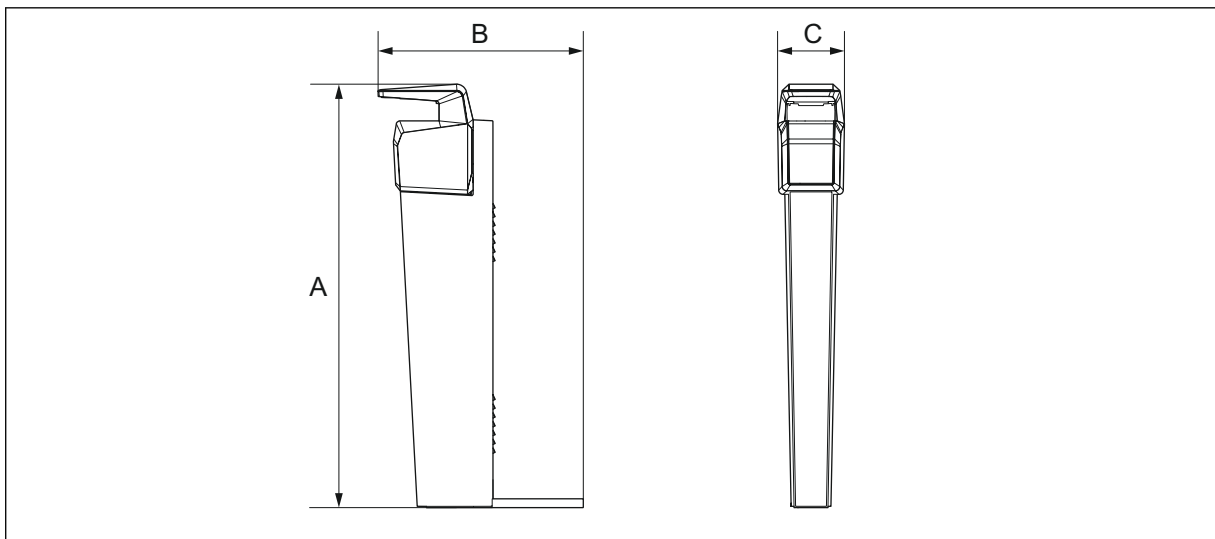
	Parameter	Specification
	Maximum width (A)	184 mm (7 1/4 in)
	Maximum height (B)	230 mm (9 1/16 in)
	Center of the Top mount (C)	165 mm (6 1/2 in)
	Maximum weight	2 kg (4.4 lb)

8.2.4 Dimensions (Lifeline Boost)



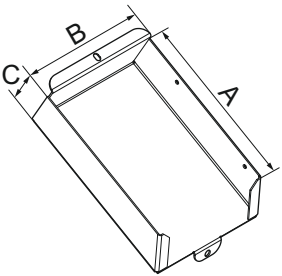
Parameter		Specification
A	Height	949 mm (37 3/8 in)
B	Length	446 mm (17 9/16 in)
C	Width	106 mm (4 3/16 in)

8.2.5 Dimensions (Lifeline Boost IMC)

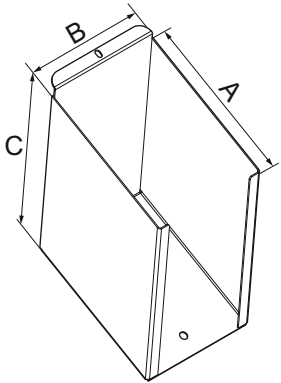


Parameter		Specification
A	Height	961 mm (37 13/16 in)
B	Length	473 mm (18 5/8 in)
C	Width	152 mm (6 in)

8.2.6 Dimensions of the card reader box (Lifeline Boost)

	Parameter	Specification
	Length (A)	120 mm (4 3/4 in)
	Width (B)	95 mm (3 3/4 in)
	Height (C)	30 mm (1 3/16 in)

8.2.7 Dimensions of the scanner box (Lifeline Boost)

	Parameter	Specification
	Length (A)	120 mm (4 3/4 in)
	Width (B)	95 mm (3 3/4 in)
	Height (C)	135 mm (5 5/16 in)

8.3 Electrical specifications

Parameter	Specification
Power consumption, operation	80 W
Power consumption, stationary	60 W
Power consumption, sleep	40 W
Voltage	100-240 V(AC) 50/60 Hz
Fuse	10 A

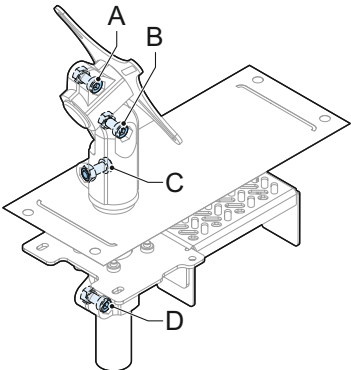
8.4 Sound pressure level

Parameter	Specification
A-weighted emission sound pressure level (L_{pA})	≤ 70 dB(A)

8.5 Ambient conditions

Parameter	Specification
Minimum temperature	-15°C (5°F)
Maximum temperature	50°C (122°F)
Maximum relative humidity	80% non condensing

8.6 Torque specifications top mount

	Item	Torque
	Top mount bolt A (M8x20)	6 Nm (4 ft.lb)
	Top mount bolt B (M8x20)	4 Nm (2.9 ft.lb)
	Top mount bolt C (M8x20)	6 Nm (4 ft.lb)
	Top mount bolt D (M8x20)	10 Nm (7.38 ft.lb)

8.7 Overview of the authorization devices

Type	Under the top	Top mount	Lifeline Boost
Card reader small	X	X	X
Card reader longer or wider		X	X
2nd card reader			X
Facial recognition camera		X	X
Iris scanner		X	X
Finger print		X	X

Type	Under the top	Top mount	Lifeline Boost
Palm vein reader		X	X
Barcode reader		X	X
QR-code reader		X	X
Card collector			X
Pin code		X	X
Emergency button			X
Mobile device	X	X	X

8.8 Directives

The machine is in accordance with these directives:

- 2006/42/EU: Machine Directive, Annex II-1A
- 2014/30/EU: EMC Directive
- 2011/65/EU: RoHS Directive

