

buschfeld × CASAMBI

We have been producing Buschfeld lighting systems since 1989, our goal always being to meet the highest requirements when it comes to functionality and design in the true spirit of the age.

Since 2016 it is possible to control lighting of all kinds digitally: in the case of Buschfeld, we refer to "smart" lighting as our Sense System. In our everyday lives we have become accustomed to controlling devices via our smartphones, tablets or computers.

When equipping the Sense System (48 V) you have installed, apply only Buschfeld products that are specifically designed for this track system. Luminaires from other suppliers, as well as Buschfeld luminaires designed for application on the LightLight System (12 V), must not be mounted on Sense System track.

Our quick reference guide provides information to support you when realising your first installation using this system, or when updating Buschfeld luminaires already installed with Casambi lighting control.

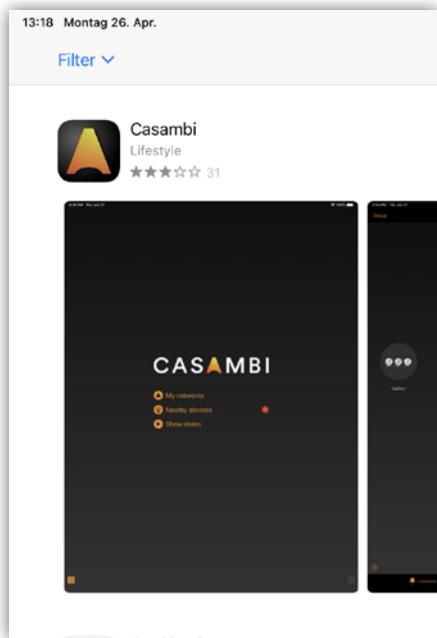
Quick reference guide re. Casambi app:

Mount the Buschfeld track system as required in your space, and ensure that the system is operating fault free. Fit the shades onto the luminaires before applying them. Lock the luminaires into place on the track where required. Turn on the power supply again.

Sense System has a protective low operating voltage of 48 V. System luminaires can also be mounted when the track is connected to the power supply. That is to say, the luminaires can be hot-plugged. Mounting or removing luminaires should only be undertaken after being initially instructed by a qualified professional. Please observe the maximum load.

When installing the Casambi app for the first time, and to ensure the backup on a Casambi server, WLAN access is required. Luminaires and app operate via Bluetooth Mesh Casambi.

Sense System
48 V DC



Install the app

Load the Casambi app from the app store or Google Play. We advise that you agree to being notified re. the app (details and updates).

App Store

<https://apps.apple.com/us/app/casambi/id731859317>



Google Play

<https://play.google.com/store/apps/details?id=casambi.ambi&gl=GB>



Help & Support

The Casambi app enables a wide range of configurations you can set up groups, different light scenes, time switches, and integrate further devices.

More detailed information, or FAQ, can be found on the Casambi website or by referring to the video provided.

Youtube

<https://www.youtube.com/channel/UCcaiSYUgfBtKgQVtx3v8xSA>



Casambi Homepage / Support / Home

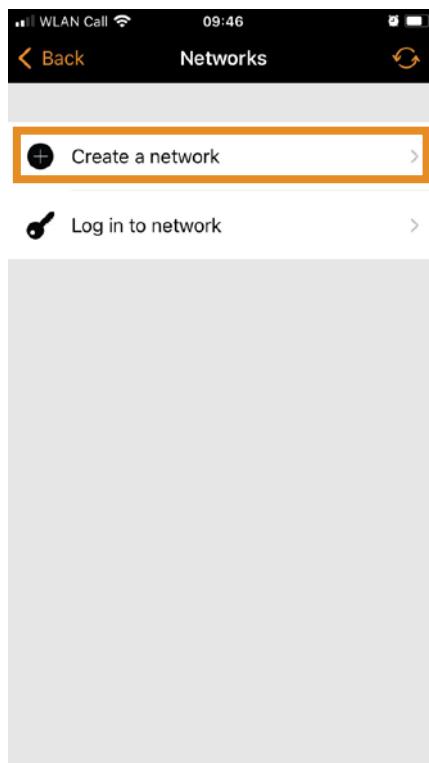
<https://support.casambi.com/support/home>



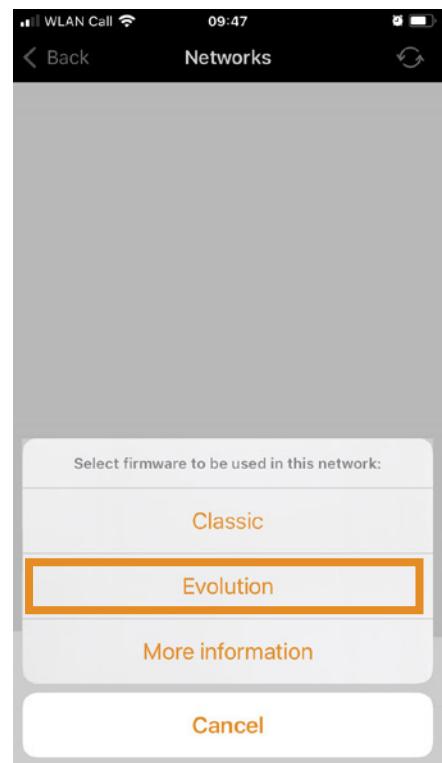
CASAMBI Create a new network



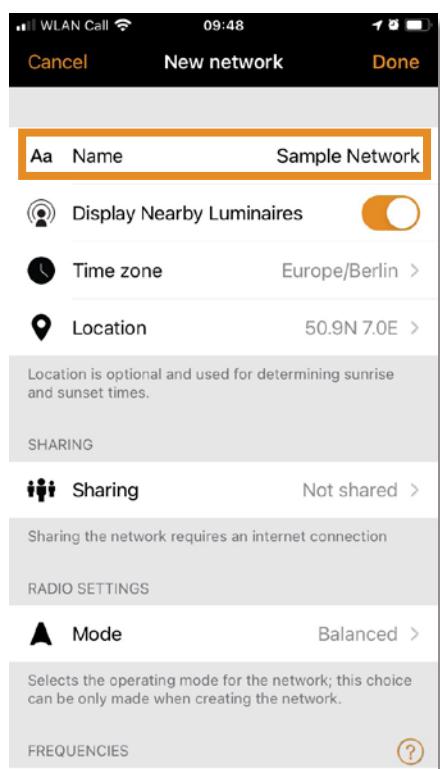
Buschfeld luminaires are delivered without a network configuration. In this way you can adapt all settings to meet your requirements



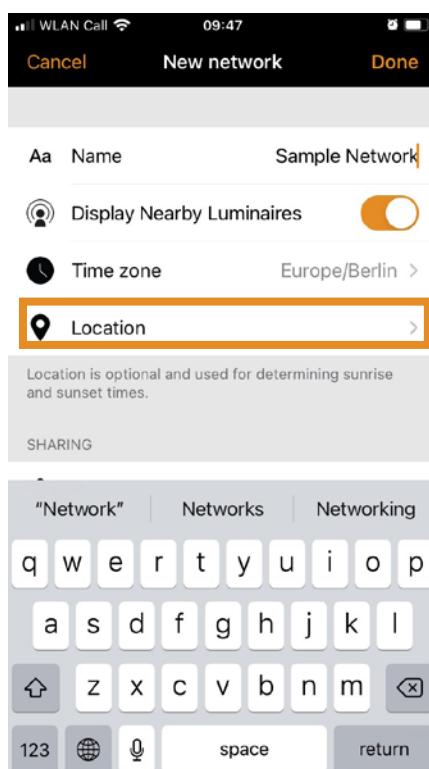
To develop a new network, select 'Create a network'.



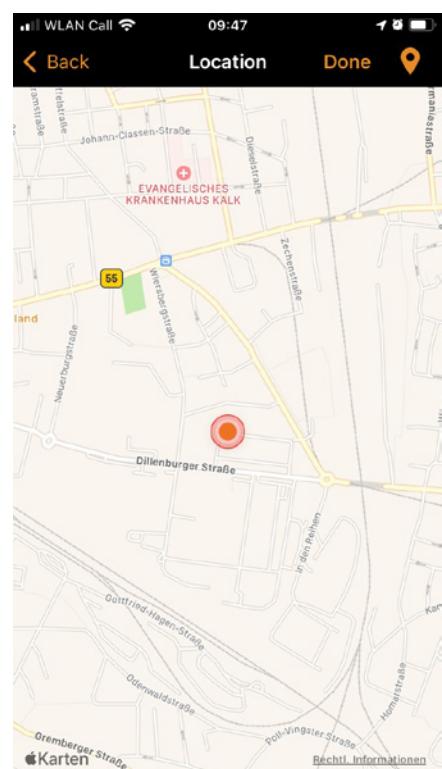
You are then prompted to create an 'Evolution' network. Standard for Buschfeld.

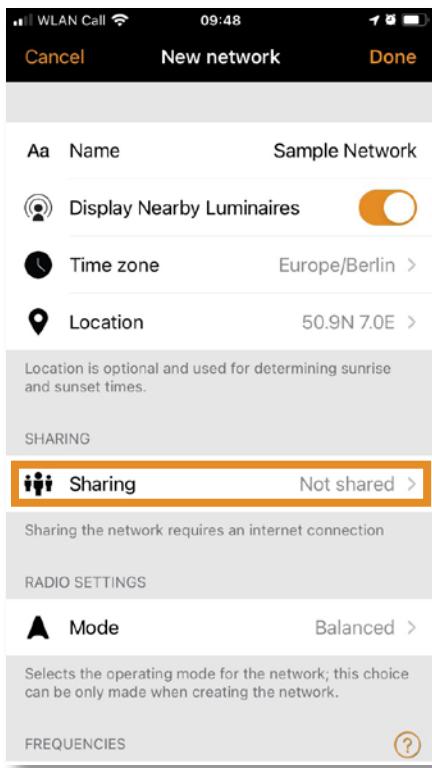


On the 'New network' screen, you can assign a network name, time zone, location, sharing settings, network mode and network frequencies.

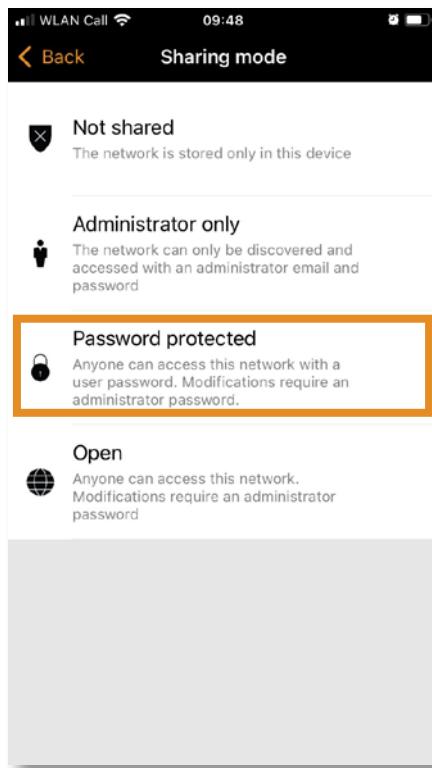


Note that a 'Location' must be set in order for sunset and sunrise times to work correctly.

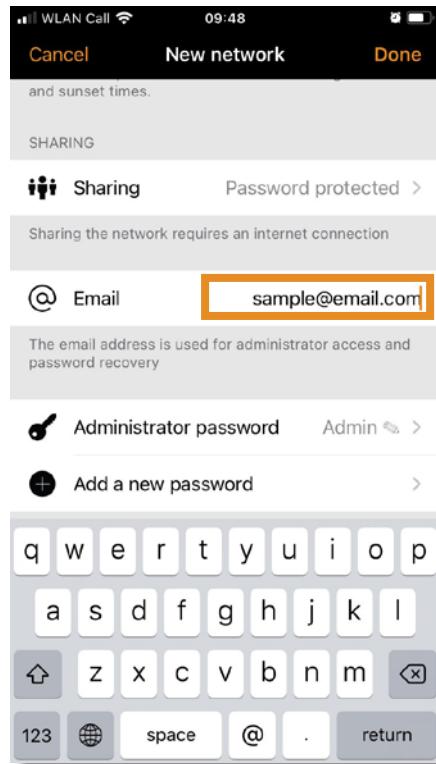




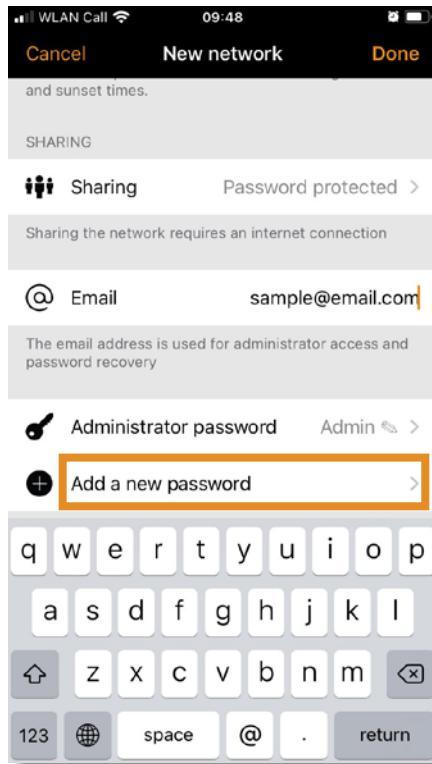
There are various ways of sharing the network. Please check which option best



suits your needs. The 'password-protected' setting is displayed here.



After changing the network sharing mode, the administrator email...



... and password need to be set for the network.

Not shared: Access to the network is only possible using the device with which it was originally created and not uploaded to cloud service.

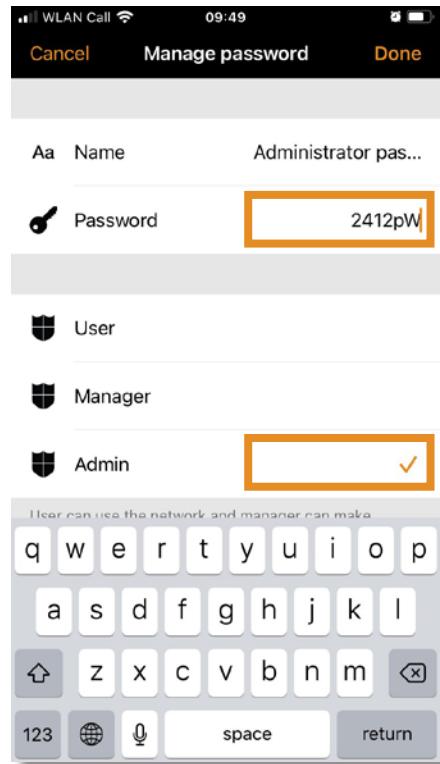
Administrator only: The network is not automatically discoverable to any devices, but it is possible to log in from the networks screen if you know the admin email and password.

Password protected: The network is discoverable by other devices but users (visitors) need to know and enter a password to access and control luminaires.

Open: The network is discoverable by other devices and there is no password required for visitor access. Anyone with the Casambi app can access this type of network and control the lights.

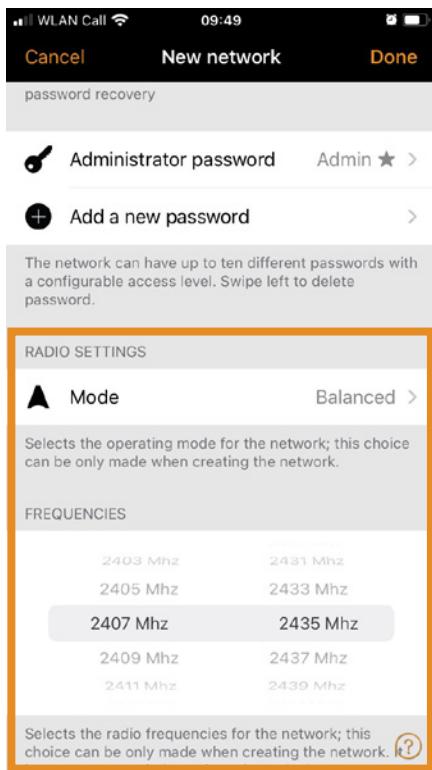
Note:

If a powerful internet connection is not available at the time of commissioning, select the 'Not shared' option here. The network and the set-up of the luminaires (etc) are saved locally on this device. This can be changed later. ATTENTION! If the device is lost, the network cannot be restored!



Casambi Homepage / Support / Sharing settings
<https://support.casambi.com/support/solutions/articles/12000021618-networks-and-sharing>

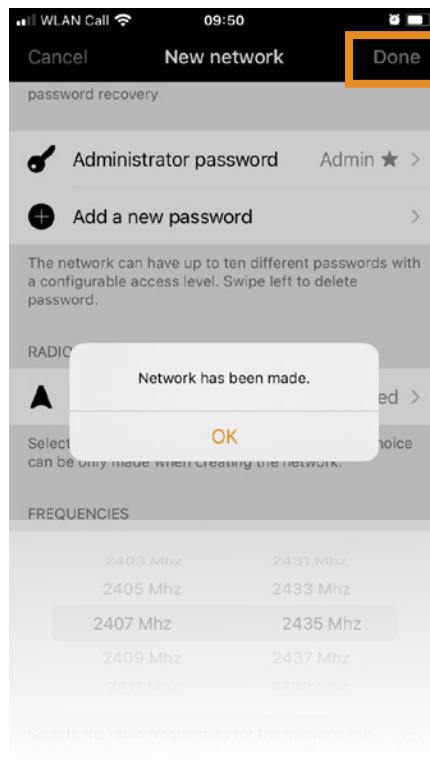




The network mode and network frequencies can only be configured when creating a network for the first time and cannot be changed after a network has been taken into use. The default mode is Balanced and should be suitable for most networks.

If your network contains a very large number of luminaires (100+) and they are placed physically near to each other, then the 'Better Performance' option can be used, regardless of the network type (Classic or Evolution). See the Change network section for instructions how to create a new network.

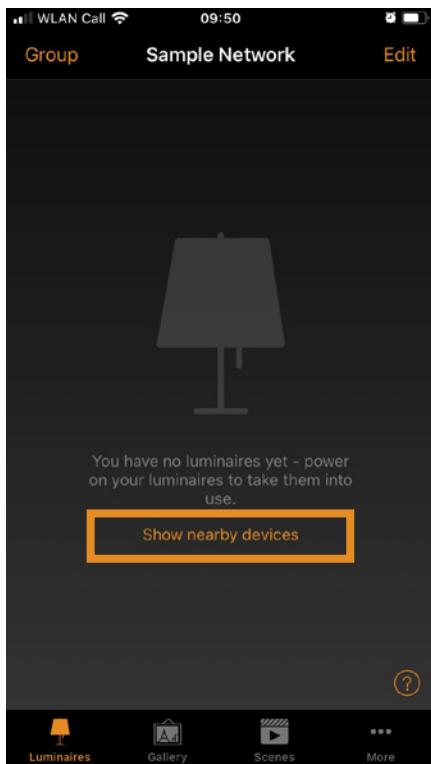
Network frequencies are always selected in pairs. For reasons of redundancy in the event of interference in the mesh network caused by an external source, communication is always made on both frequencies.



To save the new settings select Done. If the sharing setting is something other than Not Shared all the changes are uploaded to Casambi cloud service and the network can be accessed from other devices.

Casambi Homepage / Support / Network settings:
<https://support.casambi.com/support/solutions/articles/12000059341-network-settings>





On the 'Nearby devices' screen you can see a list of all Casambi-enabled devices that are close by. In the list you can see an icon

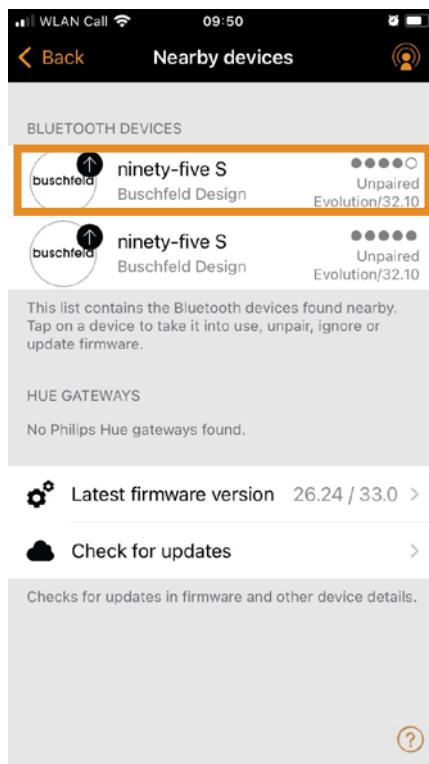
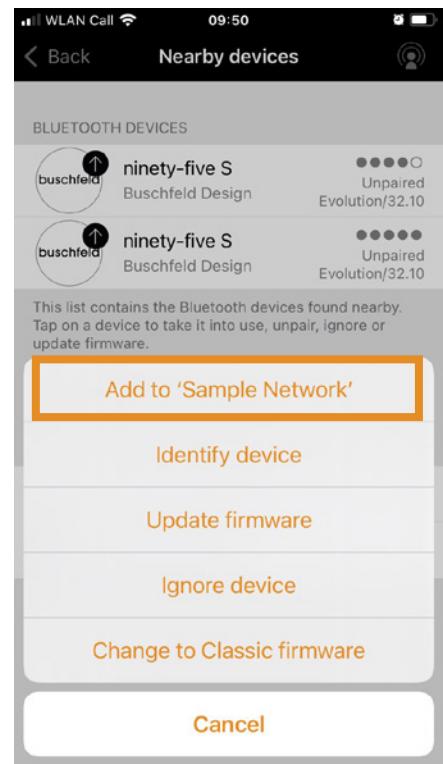
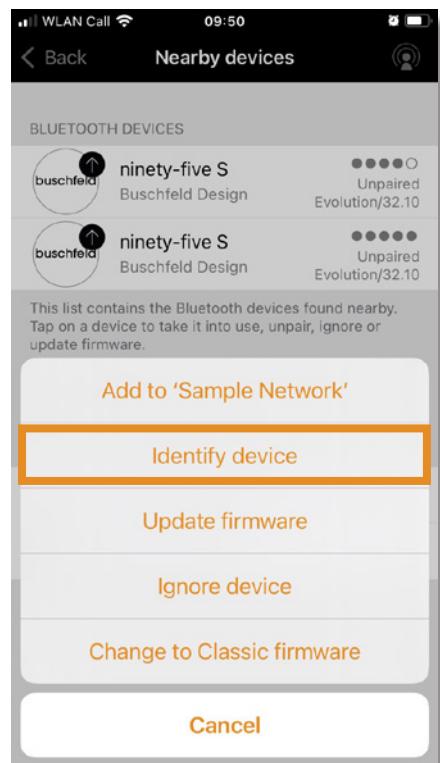


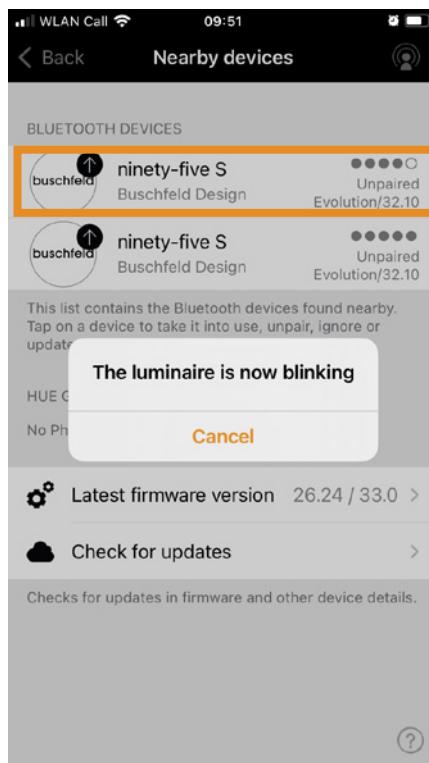
image of the device plus its name, vendor, network type, firmware version, signal strength and pairing state or network name.



'Add to 'Sample Network'' assigns the luminaire to the network.



Luminaires within the Buschfeld lighting system are revealed by blinking. Initial adjustments can then be made.



In this way the name of the luminaire can be changed or extended, e.g. by giving it a number or room designation.

Optional
Adding switches and sensor elements
After integration in the network, the elements (luminaires, animation or lighting scenes) must then be assigned to the push-button.

Integrating the CBU-DCS as a DALI gateway

Connect the luminaires to the power supply and connect the DALI bus to DA1 and DA2 of the gateway.

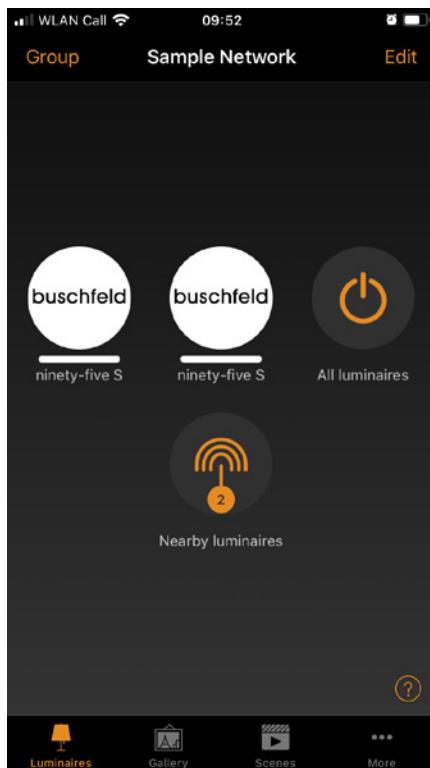
Add the gateway to the Evolution network.

The spotlights can now be used/addressed as usual via the DALI interface. The gateway remains invisible to the DALI interface.

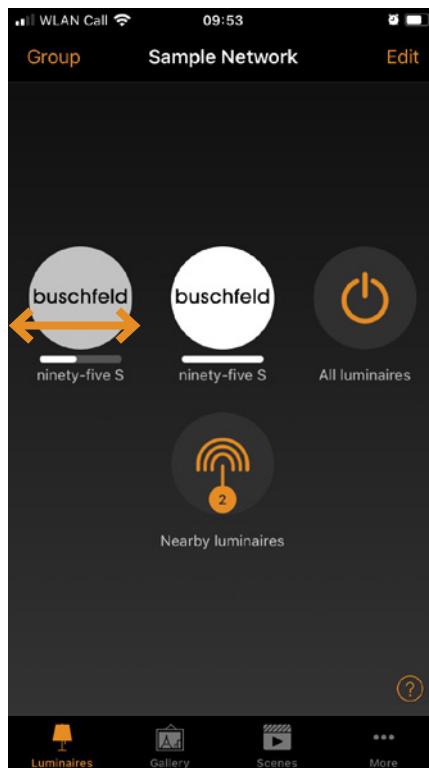
Casambi Homepage / Support / Nearby devices
<https://support.casambi.com/support/solutions/articles/12000074085-nearby-devices>



CASAMBI Adjusting Light Levels

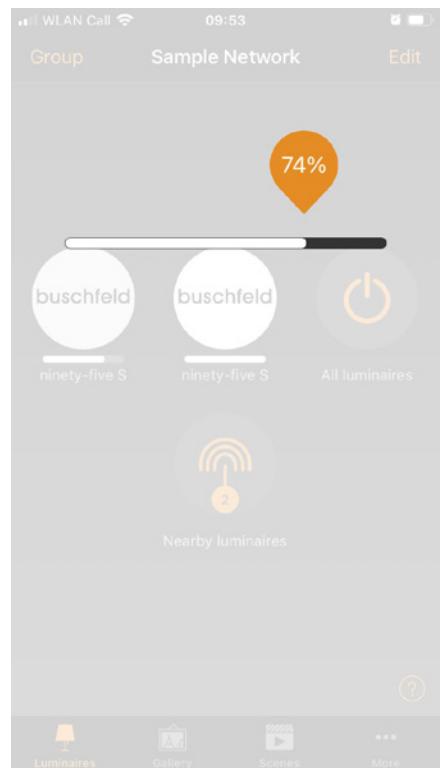


Luminaires that are paired to your network will be displayed in the Luminaires tab. Each will have an icon picture and name. Tap the luminaire icon to turn the luminaire on or off.

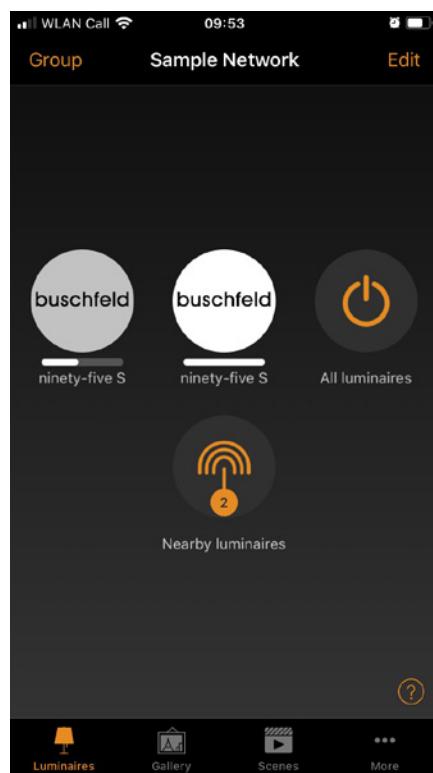


Pan left or right on the luminaire icon to adjust the luminaire light level.

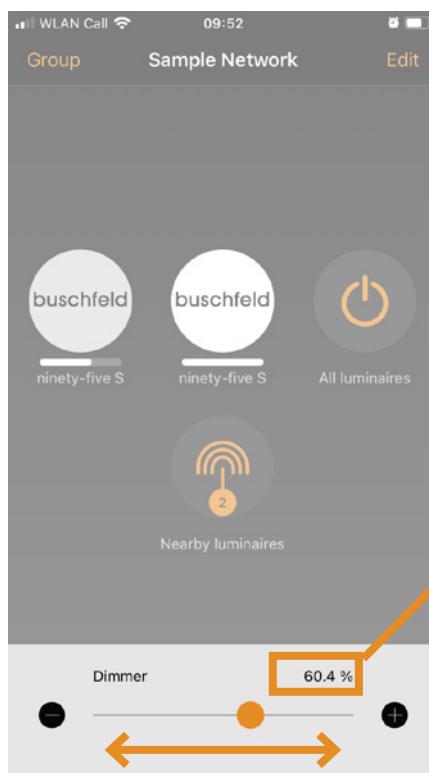
The app remembers the set level so if you switch the luminaire off and on again using



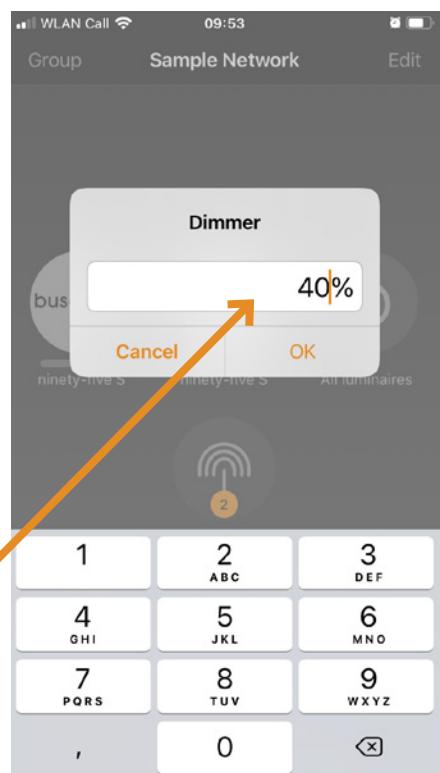
the tap gesture, it will return to the set level.



Alternatively, if you tap the luminaire icon longer, a horizontal controller appears. This

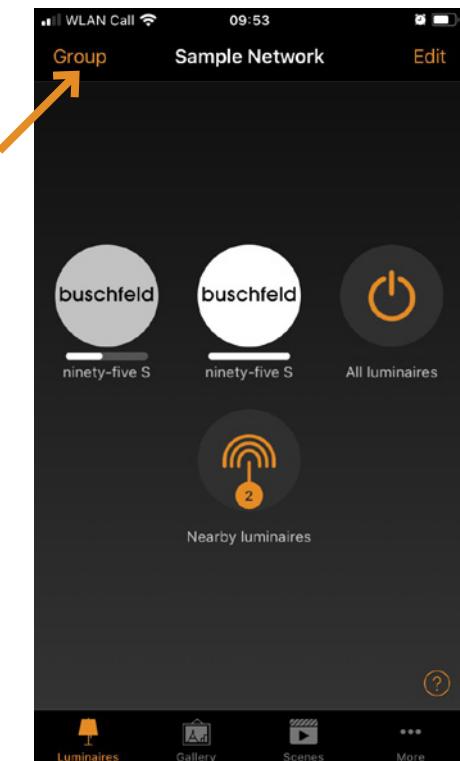


enables you to adapt the dimming value by touch.

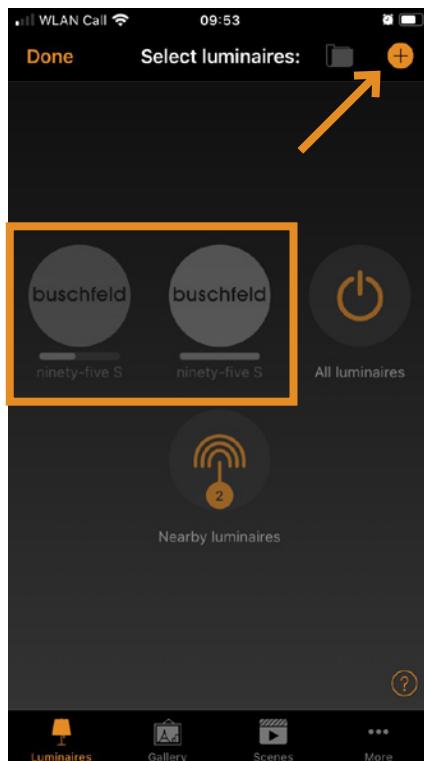


Or you can enter a value by tapping the numeric display.

CASAMBI Creating and Editing a Group

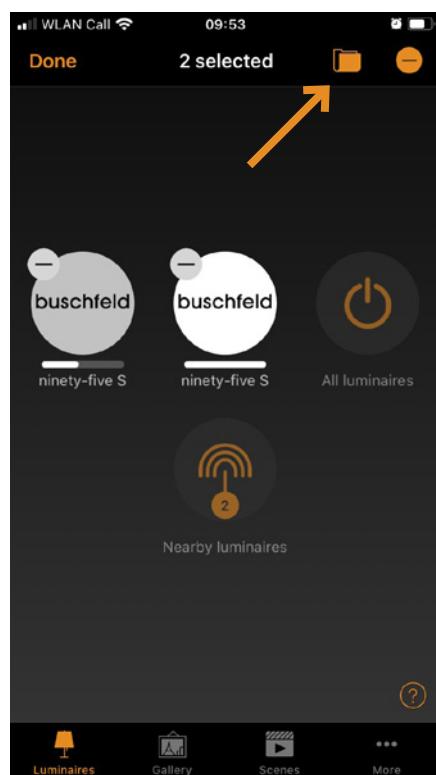


Grouping is a method of organizing luminaires in the Luminaires tab. This can

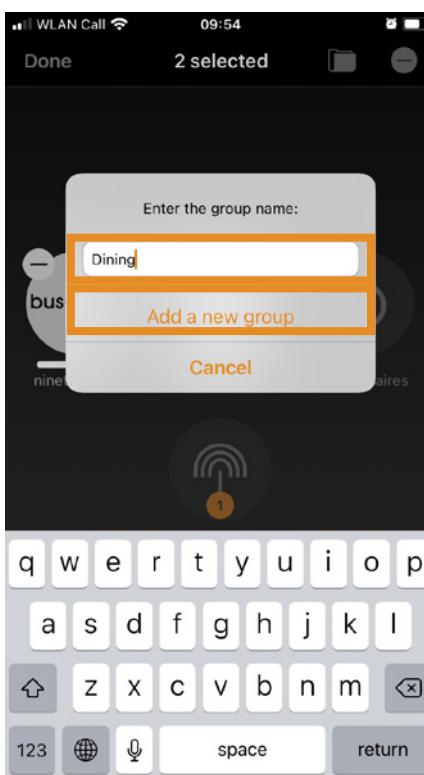


make it easier to find the correct luminaires later (especially if you have a large network).

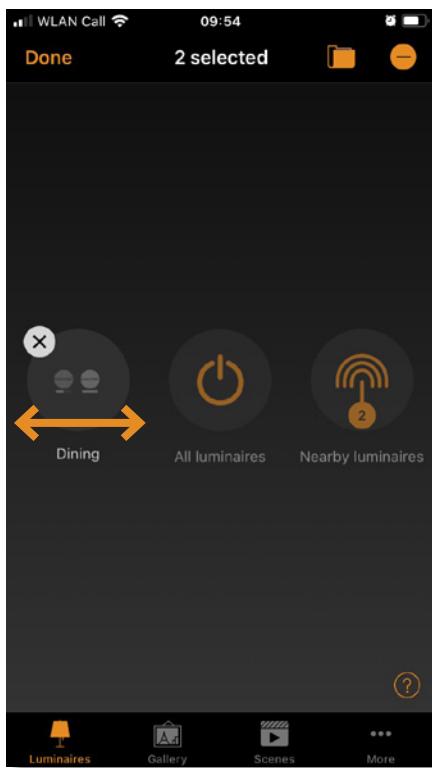
Groups can be considered as physical collections of luminaires in an area (e.g. all luminaires in a row or in one room). One luminaire can only be part of one group. You can name groups and set common dimming levels, colour or colour temperature for all luminaires in a group.
 Select Group (top left of the screen).
 Select the luminaires for the group by tapping them.



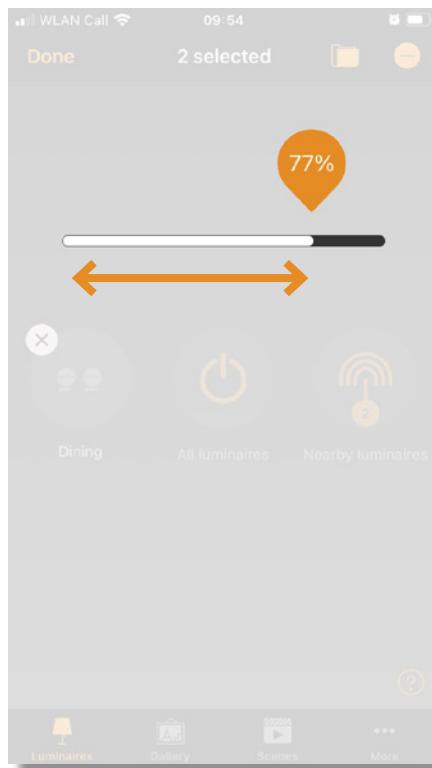
Create the group by tapping the folder icon. The + / - icons (top right) can be used to select or deselect all luminaires that are not



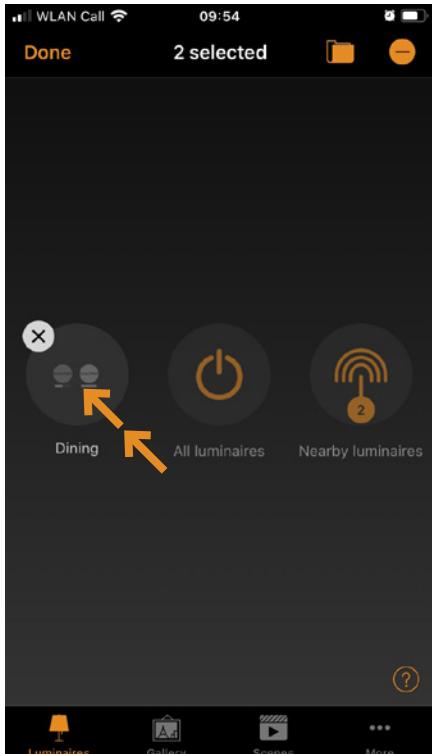
already in another group.
 Name the group. Tap Add a new group.
 Tap Done to save the changes.



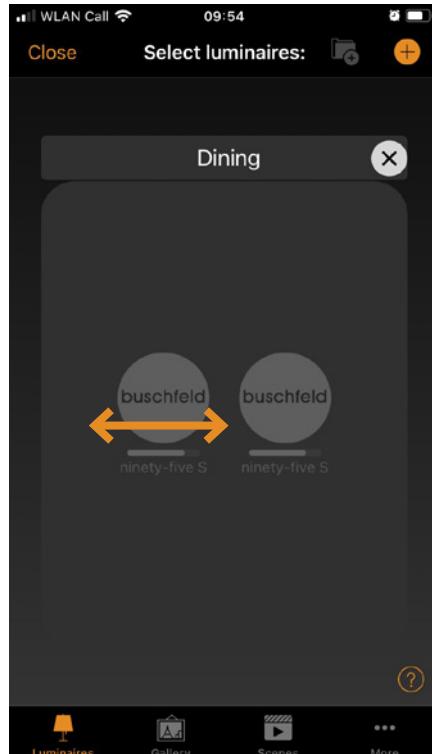
You can control all luminaires in a group simultaneously using the same basic app gestures on the relevant group icon.



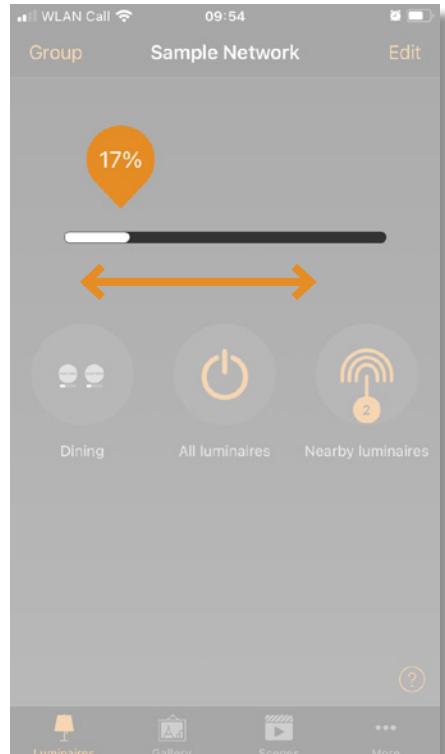
basic app gestures on the relevant group icon.



You can also still control individual luminaires separately, even if they are part of a group. Double tap the group to open it.



You can then use the basic gestures on individual luminaires.



Casambi Homepage / Support / Grouping / Creating and editing a group
<https://support.casambi.com/support/solutions/articles/12000074027-grouping>



Sense System® (48 V) by buschfeld

DE

Allgemeine wichtige Hinweise.
Bitte sorgfältig lesen.

buschfeld Das Original LightLight® Lichtschiensystem wird seit 1989 von uns produziert. 2016 ist das Sense System® (48 V) entstanden. Es basiert auf dem LightLight System und bietet alle Möglichkeiten einer digitalen Lichtsteuerung über Bluetooth Funkstandard.

Die Fixierung aller Leuchten am System und deren elektrische Versorgung erfolgt durch die Systemadapter. Buschfeld® Lichtsysteme sind in sich geschlossene Einleiter-Systeme. Ohne Anpassung und Prüfung können KEINE Leuchten und Komponenten anderer Hersteller in Buschfeld Lichtsystemen betrieben werden. Die Leuchten aus dem LightLight® System (12 V) können nicht im Sense System® (48 V) betrieben werden. LightLight Systeme können jedoch nach Prüfung durch eine Elektro-Fachkraft auf 48 V, Sense System umgebaut werden. Bitte kontaktieren Sie uns. Zusammen prüfen wir welche Schritte für eine Umrüstung notwendig sind.



Die Maximallast beachten! Maximallast des Systems ist durch den maximalen Strom 12,5 A bei 48 V begrenzt, dies entspricht einer Belastung von 600 W.

Sense System
48 V DC

Innerhalb des Sense Systems® bietet Buschfeld Design zwei Lichtsteuerungs Protokolle an. Für die Erstellung von Lichtszenen, -gruppen oder anderen Einstellungen sind die App/Programme von Casambi oder Xicato unbedingt notwendig. Die Sense System Leuchten sind bei Auslieferung sofort einsatzbereit. Buschfeld Design nimmt jedoch keine Ersteinstellung oder Programmierungen vor, wenn nicht anders vereinbart.

CASAMBI Buschfeld Leuchten mit Casambi Steuerung können mit Casambi kompatiblen Produkten (z.B. Schaltern/App) gesteuert werden.

www.buschfeld.de/how-it-works/48103



XICATO Die Leuchten mit Xicato Steuerung werden mit Desktop-, Browser- und mobilen Software gesteuert. Xicato hat seinen Quellcode und seine XIG-Gateway unter einer Standardlizenz MIT Free Open Source Software (FOSS) veröffentlicht. Dies ermöglicht Systemintegratoren, Softwareentwicklern von Drittanbietern und Benutzern gleichermaßen mehr Möglichkeiten bei der Inbetriebnahme, Steuerung, Verwaltung und Neukonfiguration der Leuchten im Professional Set-up.

www.buschfeld.de/how-it-works/48104



Basic on/off Leuchten mit Basic on/off können NICHT gedimmt oder anderweitig gesteuert werden.

EN

General important information.
Please read carefully.

We have been producing our highly original track system LightLight® since 1989. The trend towards digital lighting control gave rise to the development of Sense System® (48 V) in 2016. Sense System is based on the LightLight system and enables all aspects of digital lighting control using Bluetooth wireless technology. The luminaires and other devices applied on the track are operated via the system-relevant adapters. Buschfeld® lighting systems are self-sufficient single-wire systems. Without comparison and testing, NO luminaires or components from other manufacturers can be operated in Buschfeld lighting systems. LightLight® luminaires (12 V) cannot be operated on Sense System® (48 V) track. That said, LightLight systems can be adapted to meet Sense System requirements, if inspected by a qualified electrician. Feel free to contact us: together we can determine what steps are required to convert your system.

Maximum load of the system. Given a maximum current of 12.5 A, this is limited to 48 V, thus corresponding to a load of 600 W.

Buschfeld Design offers two lighting control protocols within the Sense System®. The app/programs from Casambi or Xicato are absolutely necessary for the creation of light scenes, groups or other settings. The Sense System luminaires are ready for use upon delivery. However, Buschfeld Design does not undertake any initial settings or programming unless otherwise agreed.

Buschfeld luminaires with Casambi control can be controlled via Casambi-compatible products (e.g. switches/app).

www.buschfeld.de/en/how-it-works/48103



Luminaires with Xicato control are controlled via desktop, browser and mobile software. Xicato has released its source code and XIG gateway under a standard MIT Free Open Source Software (FOSS) license. This gives system integrators, third-party software developers and users alike more options when commissioning, controlling, managing and reconfiguring the luminaires in the professional set-up.

<https://www.buschfeld.de/en/how-it-works/48104>



Luminaires with Basic on/off CANNOT be dimmed or otherwise controlled.



ETL listed
Konformität für USA und Kanada.



Gerät darf nicht im Hausmüll entsorgt werden.



Konformitätserklärung gemäß EU-Verordnung.



Buschfeld Betriebsgeräte im Designgehäuse werden in Schutzklasse 1 ausgeliefert. Elektrischer Schutz durch Schutzleiter (Erdung).



Betriebsspannung des Sense System ist 48 V Schutzkleinspannung. Die Systemleuchten können auch unter Spannung eingeriegt werden. Die Leuchten sind Hot Plug** fähig. Es wird empfohlen, das Einriegeln oder Tauschen von Leuchten erst nach vorheriger Unterweisung durch eine Fachkraft durchzuführen.



**Hot Plugging bezeichneten den Wechsel und die Wechselbarkeit von Systemkomponenten und Modulen im laufenden Betrieb des Systems. Bekannteste Beispiele für Hot-Plug-fähige Technologien sind allgemeine Computer-Schnittstellen wie USB, FireWire, PCMCIA oder auch Bluetooth zum Anschluss von Peripheriegeräten.



Leuchte / System darf nur in trockenen Innenräumen eingesetzt.



Die Installation der System-Lichtschielen muss durch Fachpersonal erfolgen. Spannungsfrei arbeiten.



Die Angaben der technischen Daten beziehen sich auf den Tag der Erstellung. Abweichungen, sowie Änderungen im Zuge des technischen Fortschritts bleiben vorbehalten. Projektbezogene Produkte und Sonderanfertigungen werden individuell gefertigt, daher können Werte und Maße abweichen.

Fotos und Zeichnungen zeigen die Leuchte und Systembauteile zu Imagezwecken. Anpassungen in Elektronik, Ausstattung und Design bleiben vorbehalten.



Externe Dimmer sind nicht zulässig. Die Lichtsteuerung erfolgt ausschließlich über spezifizierte drahtlose Schnittstellen Bluetooth via Casambi oder Xicato.



Energieeffizienzklasse der Light Engine

ETL listed
Conformity for US and Canada.

Product/product parts must not be disposed of with household waste.

Technical conformity in accordance with EN directives

Buschfeld control gear in the design housing is supplied in protection class 1. Electrical protection through protective conductor (earthing).

Sense System has a protective low operating voltage of 48 V. System luminaires can also be mounted when the track is connected to the power supply. That is to say, the luminaires can be hot-plugged**. Mounting or removing luminaires should only be undertaken after being initially instructed by a qualified professional.

**Hot Plugging describes the installation and/or removal of system components and modules while the system is connected to the power supply. The best known examples of hot-pluggable technologies are general computer interfaces such as USB, FireWire, PCMCIA or even Bluetooth for connecting peripheral devices, or more specific examples.

Luminiare / track systems are only to be used in interior spaces.

Installation is to be carried out by qualified personnel only! The system must be disconnected during this time.

All technical data refer to the status quo when the data sheet was compiled. Given that developments are part of a continuing process, all data provided is also subject to change. Custom-made products are manufactured individually, so values and dimensions may vary.

Photos and drawings show the luminaires and system components for image purposes. We reserve the right to make adjustments to the electronics, equipment and design.

External dimmers are not permitted. The lighting is controlled exclusively via specified wireless Bluetooth interfaces via Casambi or Xicato.

Energy efficiency class of the light engine

Pflege und Reinigung



Cleaning and maintenance

Leuchtschirm mit einem weichen Tuch trocken abwischen. Bei starken Verunreinigungen das Tuch leicht mit Wasser anfeuchten. Keine Lösungsmittel oder Reiniger verwenden.

To clean the shade wipe with a dry, soft cloth. Heavier soiling can be removed with a damp cloth. Chemical cleaners or solvents are not to be used.

Zertifikate / Label



Listed

Intertek
4000045

Conforms to UL STD 2108
Certified to CSA STD CSA C22.2#250.0



Energy efficiency
LED Light Sources

DE

**Installation und in Betriebnahme. Wichtige Information!
Bitte sorgfältig lesen.**



Übersicht aller Montageanleitungen

<https://www.buschfeld.de/service/downloads>



Die Montage der Schienensysteme ist für das LightLight® und Sense System® gleich. Bitte beachten Sie dabei die Hinweise beim Anschliessen der Buschfeld Lichtschienen.



Beim Anschluss der Einspeisung und des Betriebsgerätes muss zwingend die + / - Polung beachtet werden!

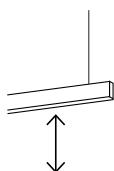
+ Messing-Innenleiter der Schiene

- Schiene selbst

Die Polung ist auch mit einem Aufkleber auf der Einspeisung markiert.



Verwenden Sie ausschliesslich die angegebenen Werkzeuge.
Beachten Sie die angegebenen Schlüsselweiten und verschiedenen Drehrichtungen bei der Montage.



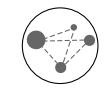
Leuchten in Betrieb nehmen

- Einsetzen der Leuchte mit Adapter hide oder Adapter lightgrey/black
- Ausrichten und Feststellen der Spots
- Leuchtenschirme



Ninety-Five S

<https://tinyurl.com/2arfqmj9>



Fifty S und Thirty-Five S

<https://tinyurl.com/2audp9bk>



App-Store

<https://apple.co/3q5hHRL>



Google Play

<https://bit.ly/3q24ljA>



Erste Schritte in der Casambi App

<https://tinyurl.com/2mau2lxv>



EN

Instructions for Installation and Use.

Important information! Please read carefully.



Overview of all installation/assembly instructions

<https://www.buschfeld.de/en/service/downloads-1>



The installation of the wall tracks is initially the same for LightLight® and Sense System®. However, please note the instructions when connecting the Buschfeld light tracks.

Sense System or LightLight track: when connecting the infeed and power supply, the + / - polarity must be observed!

+ Brass inner conductor of the track

- track itself

The polarity is marked with a sticker on the feed.

Only use the specified tools. Observe the specified spanner sizes and different directions of rotation when installing.

Putting the luminaires into operation

- applying luminaires with a Hide adapter or black/light grey adapter
- adjusting and fixing the spots
- use of shades, if required

Ninety-Five S

<https://tinyurl.com/26qrpo9>



Fifty S and Thirty-Five S

<https://tinyurl.com/2btbefgx>



buschfeld × CASAMBI

When installing the Casambi app for the first time, and to ensure the backup on a Casambi server, WLAN access is required.

Luminaires and app are operated via Bluetooth Mesh Casambi.

App-Store

<https://apple.co/3Jg6C7R>



Google Play

<https://bit.ly/3JaEO4V>



Casambi App 1st steps

<https://tinyurl.com/2h86kgro>

