



06/2020

Light is adaptable

OSRAM BT control devices

Advanced light management via Bluetooth® and DALI

Light is OSRAM

OSRAM

Easy light management via Smartphone and Bluetooth®

The convenient control of technical devices via smartphone is a success story and has already taken hold in many areas. For the lighting sector, OSRAM offers a product family that makes the control of lighting systems easier, more versatile and more flexible through the use of wireless technology. With our Bluetooth®-based control devices such as DALI ACU BT, DALI ECO BT and DALI ECO BT RTC, we also enable quick commissioning and easy setting of luminaire groups and lighting profiles via a free app.

These solutions are particularly well-suited for use in meeting rooms or classrooms, but not only there. Lighting control in these application areas is especially convenient, for example, when a quick change is needed from general lighting to lighting only certain parts of a room, e.g. for presentation purposes. With one DALI channel for controlling standard DALI or Tunable White DALI LED drivers plug-and-play start-up and control of professional lighting has never been easier.

Unpack, connect, ready

Thanks to plug & play, no commissioning is required. This makes the planning and installation of these energy-efficient systems particularly easy, quick and convenient. Components can be mounted behind a classic push-button in a flush-mounted device box or directly into a luminaire.

Easy light management

OSRAM BT control devices offer the following features: Intuitive user control of light levels and color temperatures, storage of individual scenes and manual override of automatic light control at any time via smartphone in combination with classic ON/OFF or dimming control by standard pushbuttons.

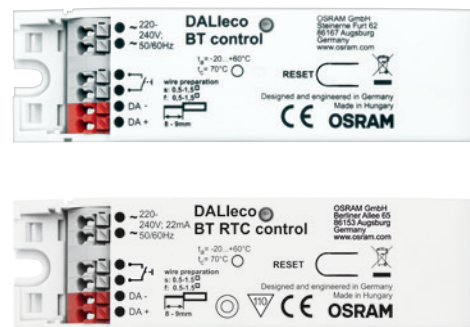
Versatile control options

All components are simply interconnected via DALI using the operating modes DALI Broadcast or DALI Groupcast. Sensors and pushbutton couplers are directly powered via DALI and do not need additional mains supply. The Bluetooth® interface enables the intuitive commissioning and control of the system via app. Sensors for presence detection and daylight harvesting can easily be integrated to achieve maximum energy savings. Moreover, an unlimited number of standard pushbuttons can be connected.

Wide variety of applications

With DALI ACU BT, DALI ECO BT and DALI ECO BT RTC, you can control up to 32 DALI LED drivers and up to four DALI sensors are supported. These BT control devices are best suited for individual lighting in the following areas:

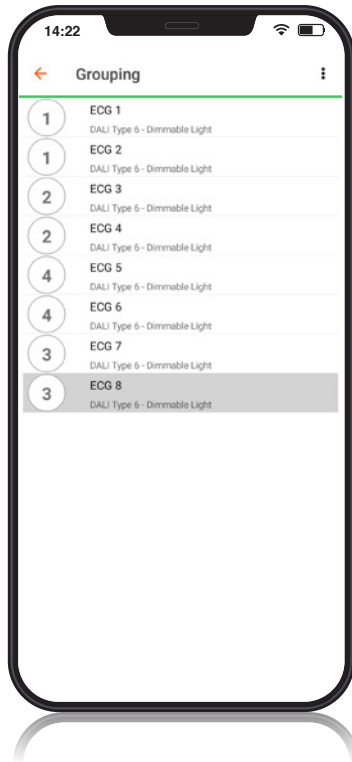
- Conference and meeting rooms
- Small and medium-sized offices
- Corridors and foyers
- Entrance areas
- Backlighting in signage or ambient lighting applications
- Design luminaires and light objects
- Floor-standing luminaires



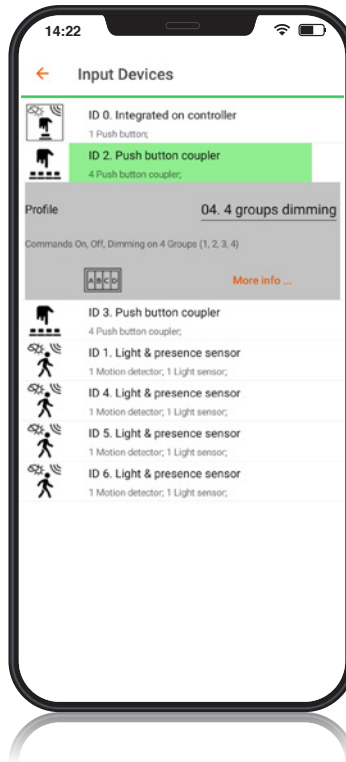
New: Intuitive grouping of lighting zones

With this new group control feature, luminaires can be assigned to four groups in three simple steps. The perfect solution for meeting rooms with different light groups.

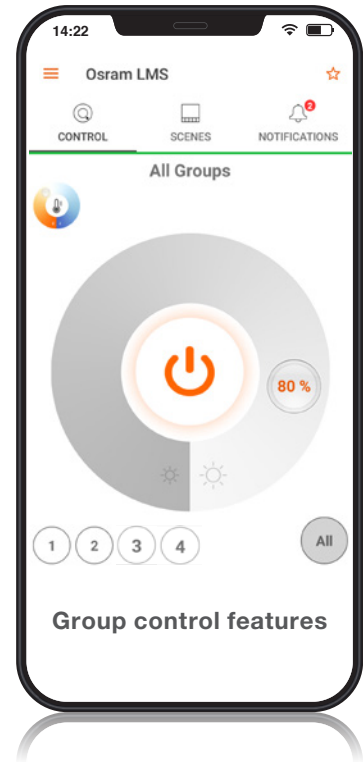
Step 1: Search the connected luminaires and assign them to one of four groups



Step 2: Change the pushbutton coupler profile



Step 3: Individual control of the four zones



Group control features

- Flexible group assignment of up to 32 DALI ECGs
- Individual control of up to four groups via app (dimming level and color temperature)
- Daylight harvesting of up to four groups
- Scene storage and recall of the individual group's dimming states and color temperatures
- Control via standard pushbuttons possible (scene recall, group dimming, color temperature change)
- Available via firmware update over the air



Prepared for all meeting situations

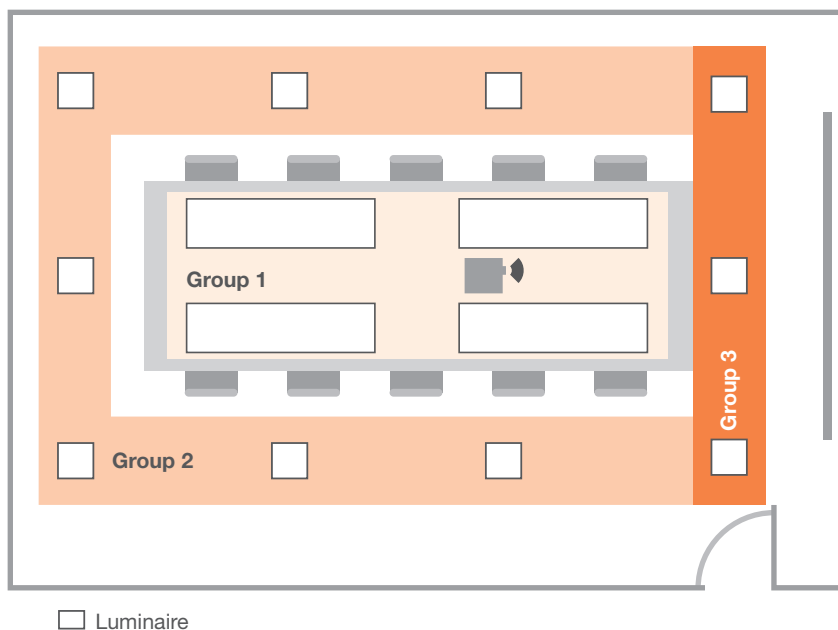
Modern office buildings require a very adjustable and user-centric lighting. In meeting rooms, for example, having different options for setting the right lighting ambience according to varying situations is a great advantage – e.g. from dimmed light for a presentation to the motivating atmosphere in a creative team meeting. The following use case illustrates the benefits of DALI ACU BT in terms of flexibility and user-friendliness.



Flexible solutions for best working conditions

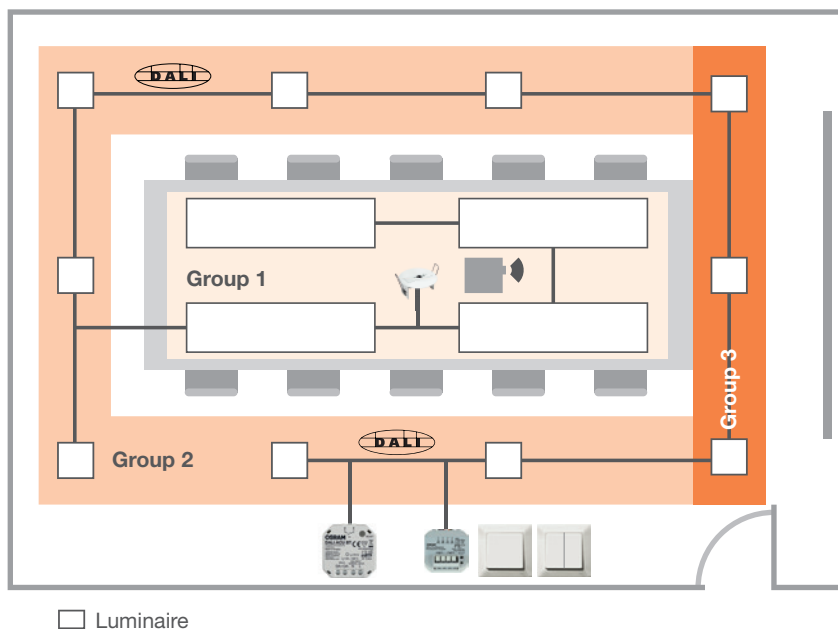
This use case shows how flexibly you can design the lighting in a meeting room with the DALI ACU BT. The system is characterized by simple installation as well as easy configuration and grouping of the luminaires via smartphone.

Meeting room with three lighting groups



Solution with OSRAM BT control and DALI luminaires

Meeting room with three lighting groups



Requirements

General lighting (Group 1–3)

- Manual control via pushbutton
- Manual scene record via pushbutton
- Manual scene recall via pushbutton:
 - Scene 1: Meeting
 - Scene 2: Presentation
- Presence detection (manual on/automatic off)
- Daylight harvesting for Group 1

Scene 1: Meeting

- Light level Group 1: 80 %
- Light level Group 2: 50 %
- Light level Group 3: 50 %

Scene 2: Presentation

- Light level Group 1: 50 %
- Light level Group 2: 30 %
- Light level Group 3: 0 %

Optional: App control for end users



DALI ACU BT

DALI controller (easy mounting in a flush box)



DALI PRO PB Coupler

Four-way pushbutton coupler (easy mounting in a flush box)

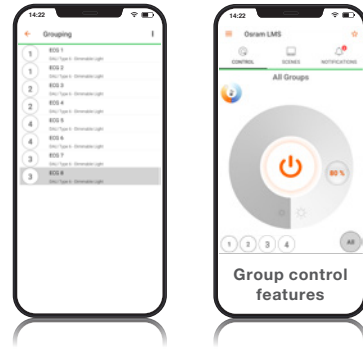


DALI LS/PD CI

Light and presence detector for ceiling integration

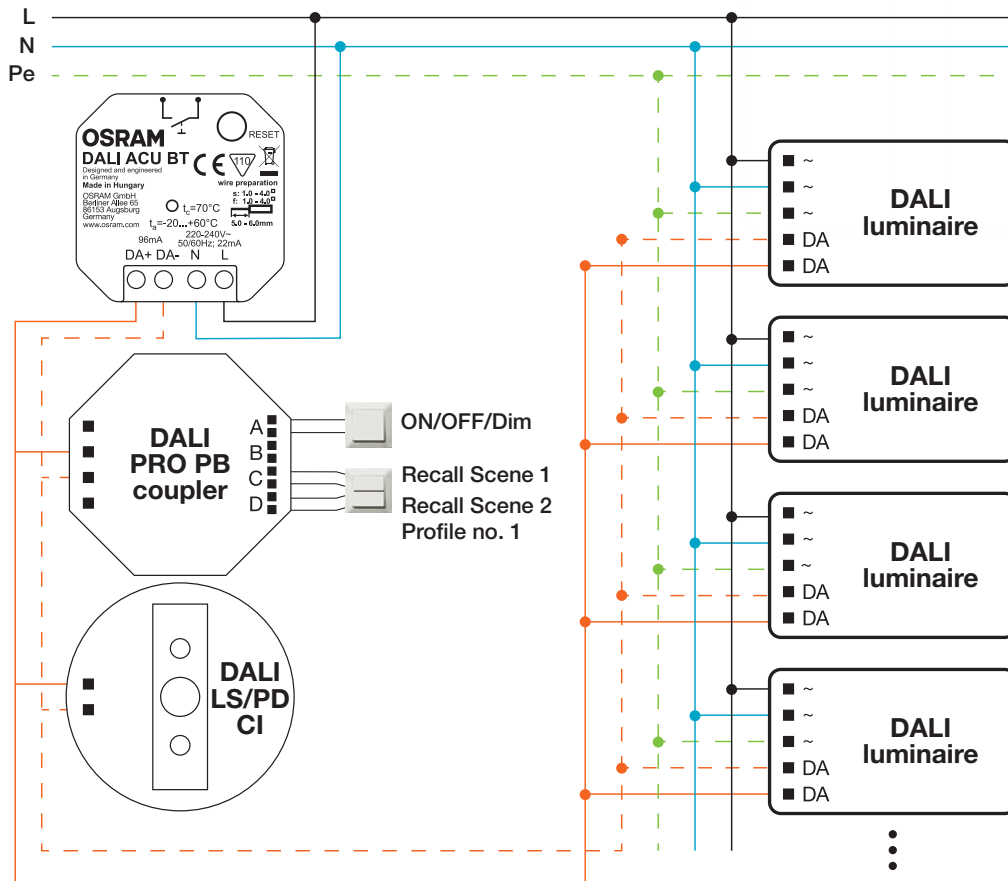
Commissioning

- Open the OSRAM BT Config app and connect to the controller
- Search the connected luminaires and assign them to one of four groups
- Individual control of up to four groups



Meeting room with three lighting groups:

Wiring scheme



The great benefit of DALI is that it can be wired in the same cable (5 x 1.5 mm²) with mains instead of having to use two separate cables.

Length of the DALI control cable: up to 300 m

Length of the pushbutton cable: up to 50 m

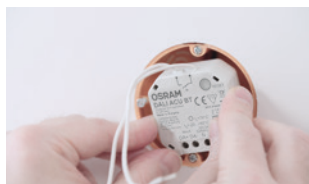


Quick installation and plug-and-play commissioning

Only one component for the entire lighting control: Turning standard pushbuttons into fully functional DALI control units.



01 Connect the DALI ACU BT to the mains and DALI wires.



02 Place the device into the flush box.



03 Connect the DALI ACU BT to the pushbutton.



04 Mount the cover of the pushbutton.

Easy commissioning with pre-set functions

With the DALI ACU BT, the installation can be carried out quickly and efficiently. Once the system is connected and powered up, no extra commissioning is needed for the following functions:



Manual switching and dimming via standard pushbuttons, the OSRAM DALI PB Coupler or the OSRAM BT control app.



Daylight harvesting with OSRAM DALI sensors. The setpoint will be stored with a double click on the connected pushbutton.



Tunable White control via control app. DALI DT8 devices are detected automatically.



Presence detection with up to 15 minutes of delay for connected OSRAM DALI sensors.

Additional features of the OSRAM BT Config app

Individual adaption of single parameters such as delay timer, standby function or the absence/presence mode.

Setting of additional parameters for special applications; e.g. behavior after power loss, pushbutton settings, color temperature range adaption or minimum/maximum dimming value.

Fast commissioning via predefined profiles and feature sets such as “single office”, “open-plan office”, “corridor”, “staircase” or “classroom”.

Creation of custom profiles by adapting the parameters to specific customer requirements with the possibility to copy the settings easily and accurately to multiple controllers.



OSRAM BT Control app
for convenient use



OSRAM BT Config app
for easy configuration (for
DALI ACU BT, DALI ECO BT
and DALI ECO BT RTC)



For Android



For iOS



For Android



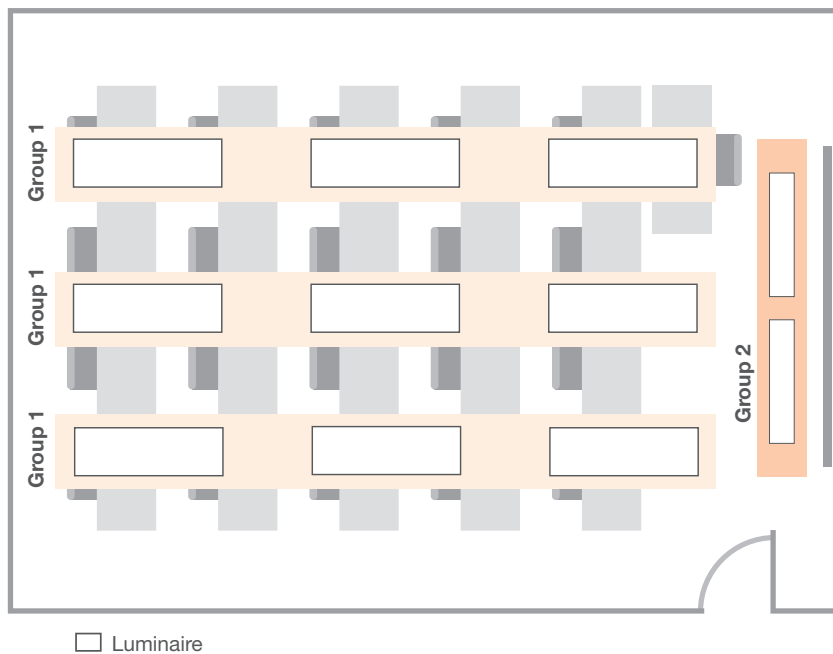
For iOS

Human-centric lighting for inspiring learning atmospheres in classrooms

In all types of learning environments, students of all ages need the right light to stay focussed on the respective topic. Whether it's a clear, bright and motivating light atmosphere which helps to prevent sleepiness during studies or exams, or appropriately dimmed lighting for presentations or educational film screenings, OSRAM provides cutting-edge technology for easy and convenient Bluetooth®-based lighting control. By installing our BT control devices, you can support the next generation of students in achieving the best possible learning results.

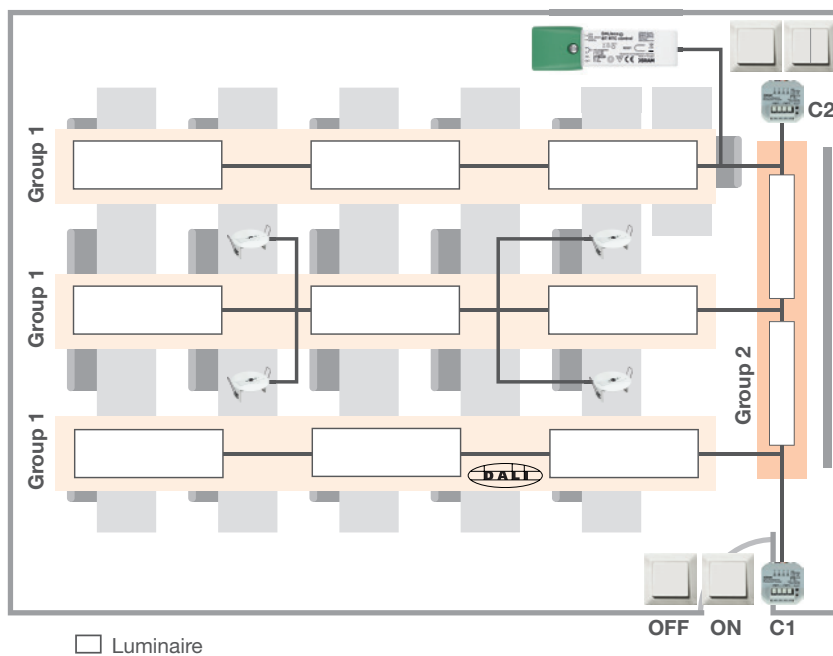


Classroom with two lighting groups



Solution with OSRAM BT control and DALI luminaires

Classroom with two lighting groups



Requirements

General lighting (Group 1)

- Daytime-dependent color temperature and brightness adjustment (bio-dynamically effective light)
- Two pushbuttons next to the door for manual switching (on/off)
- Presence detectors for switching off the light automatically
- Daylight harvesting for energy saving in Group 1

Blackboard lighting (Group 2)

Three pushbuttons next to the blackboard; with the following functions:

- On/Off/Dim blackboard lighting
- On/Off/Dim general lighting
- Color temperature change of the general lighting
- Presence detectors for switching off the light automatically



DALI ECO BT RTC

DALI ECO BT RTC control device with ECO CI KIT cable clamp (alternatively built into the luminaire)



DALI PRO PB Coupler

Four-way pushbutton coupler (easy mounting in a flush box)

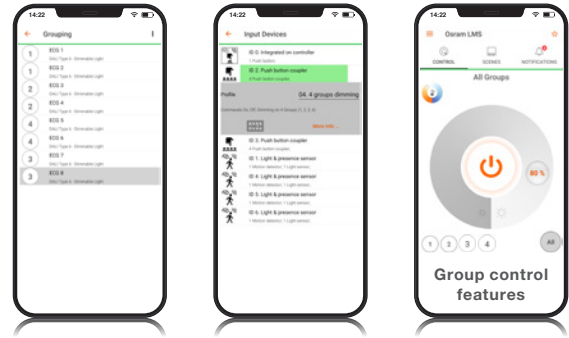


DALI LS/PD CI

Light and presence sensor for ceiling installation

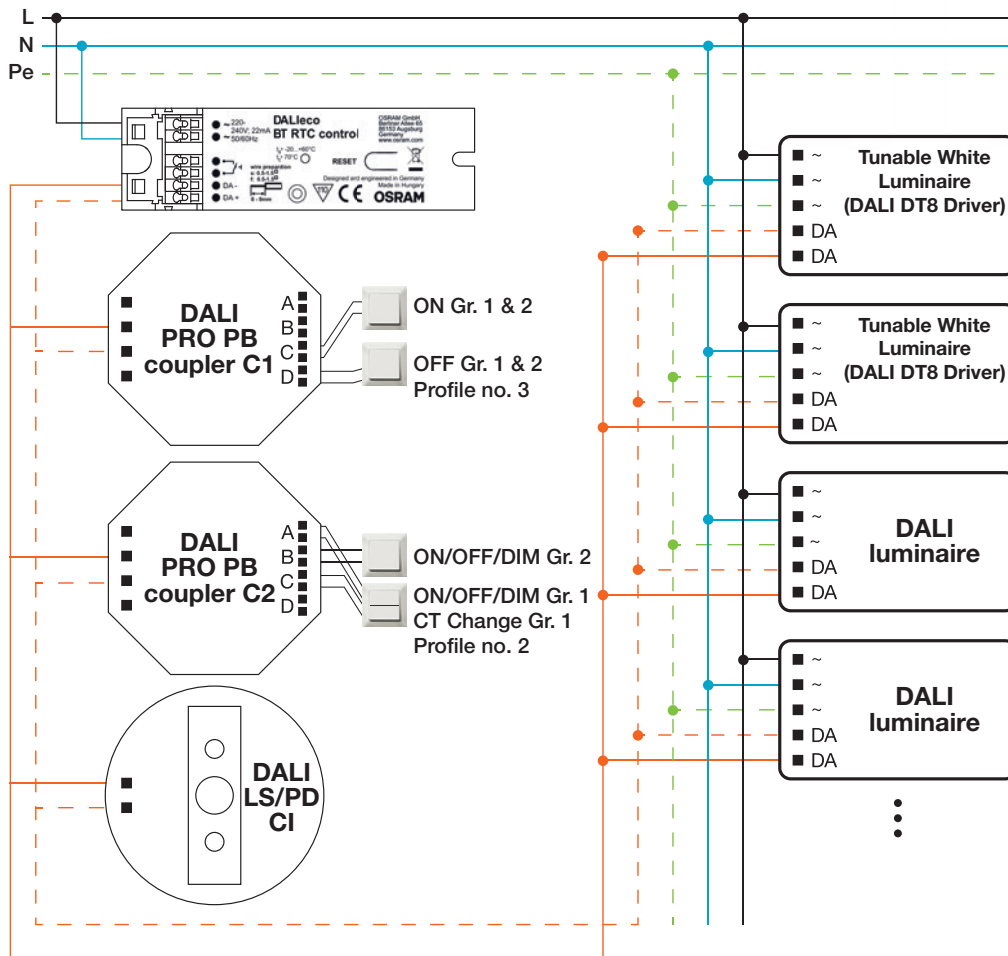
Commissioning

- Open the OSRAM BT Config app and connect to the controller
- Search the connected luminaires and assign them to one of two groups
- Change the pushbutton profiles: C1 to profile no. 3, C2 to profile no. 2
- Individual control of up to two zones



Classroom with two lighting groups:

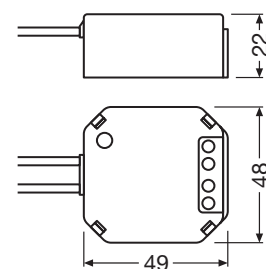
Wiring scheme



The great benefit of DALI is that it can be wired in the same cable (5 x 1.5 mm²) with mains instead of having to use two separate cables.



Technical data



DALI ACU BT



Product name

GTIN (EAN)

V

Hz

CONTROL

No. of OUTPUTS

IP

m

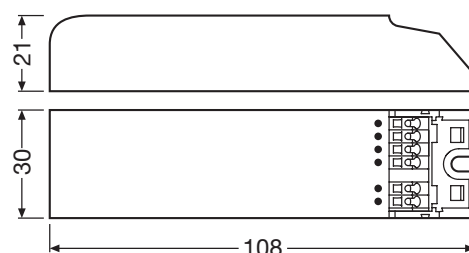
W

T_a

DALI ACU BT	4052899 544819	220...240	50/60	DALI	1	IP20	15	Luminaire integration/ Integrated in flush device box	-20...+60
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Looking for a different form factor? Planning an installation in a false ceiling?

For this, we recommend our DALI ECO BT control unit, which offers the same functionality and specifications as the DALI ACU BT with a different form factor and cable clamp option with the ECO CI KIT. DALI ECO BT RTC is available for applications with real time clock.



DALI ECO BT and DALI ECO BT RTC



Product name

GTIN (EAN)

V

Hz

CONTROL

No. of OUTPUTS

IP

m

W

T_a

DALI ECO BT CONTROL	4052899 988781	220...240	50/60	DALI	1	IP20	15	Luminaire integration/ Independent mounting	-20...+60
DALI ECO BT RTC CONTROL	406217 2016537	230	50/60	DALI	1	IP20	15	Luminaire integration/ Independent mounting	-20...+60

Sensors and accessories for OSRAM BT control devices

DALI LS/PD CI sensor

Light and presence sensor for ceiling integration



GTIN (EAN)
4052899**930292**

DALI LS/PD LI sensor

Light and presence sensor for luminaire integration



GTIN (EAN)
4052899**043954**

LS/PD AP KIT

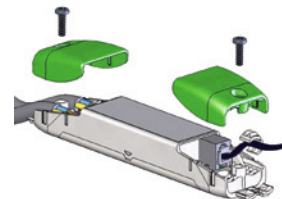
Ceiling-mounted adapter for DALI LS/PD LI



GTIN (EAN)
4052899**173385**

ECO CI KIT

Cable clamp for DALI ECO BT CONTROL



GTIN (EAN)
4008321**392091**

Ambient lighting with OSRAM OTi BLE and OT BLE DIM

Upgrade rooms to the next level and create stylish moods with state-of-the-art Bluetooth®-controlled light management. With this simple, powerful solution, intelligent lighting is now easy to command and always at your fingertips. Installation, maintenance and configuration are made more convenient, efficient and user-friendly.



The new OSRAM OPTOTRONIC® BLE devices can be conveniently controlled via app. Simply connect your LED modules and pair them with a smartphone or tablet. Combined with the new wireless control app from Casambi, no extra cabling, complicated wiring or gateway are required. This opens up a wide range of possibilities for renovation projects including entertainment, restaurants, hotel rooms and retail areas. Both components, OTi BLE 80/220-240/24 1-4 CH and OT BLE DIM, complete the LED strip system for flexible and individualized lighting solutions, which consists of LED strips (or LED backlighting modules for large luminous surfaces), LED drivers and Flexessories®.

A compatible control system – all in one.

The main benefits at a glance

- **It's simple!**
Configuring and controlling light has never been easier
- **It's wireless!**
No extra cabling or gateway needed
- **It's versatile!**
Numerous applications can be realized with this non-invasive system
- **It's reliable!**
Bluetooth® Low Energy (BLE) is one of the most advanced technologies on the market. It is combined with the intuitive Casambi app.



The OSRAM Bluetooth® devices are the basis for non-invasive lighting control via smartphone app. They offer simpler, more intuitive and more powerful lighting control without additional wiring.



Key features

- Light management of constant-voltage LED systems, including all LINEARlight FLEX®, VALUE Flex® and backlighting modules as well as OPTOTRONIC® LED drivers from OSRAM
- Intuitive plug-and-play solution; easy set-up and control via app, no additional professional knowledge for commissioning needed
- Dimming, scene storage, sequences, daylight rhythm
- Multicolor control (RGBW, RGB, Tunable White, Tunable Warm White and DIM to Warm)
- Time-programmable events
- Reliable mesh network communication based on Bluetooth® Low Energy
- Customizable app elements (such as buttons)
- Autonomous system, constant cloud synchronization available

Technical data

LED driver with dimmer



Order information

Product name	OTi BLE 80/220...240/24 1...4 CH
GTIN (EAN)	4062172046558

Control characteristics

Dimming interface	Bluetooth® Low Energy
Dimming range	0.4–100 %
Dimming method	4-channel PWM
Power consumption	80 W max. total @ 24 V 4 channels
Dimensions	346 x 32 x 22 mm (l x w x h)

Additional characteristics

Housing	Plastic
Ingress protection	IP20
Type of connection	Screw terminal

LED dimmer



Order information

Product name	OT BLE DIM
GTIN (EAN)	4052899557833

Control characteristics

Dimming interface	Bluetooth® Low Energy
Dimming range	0–100 %
Dimming method	4-channel PWM
Power consumption	120 W max. total @ 12 V 240 W max. total @ 24 V 4 channels
Dimensions	172 x 42 x 20 mm (l x w x h)

Additional characteristics

Housing	Plastic
Ingress protection	IP20
Type of connection	Screw terminal

Intuitive system solutions from OSRAM

With OSRAM you can create efficient overall systems of LED modules, Bluetooth LED drivers or dimmers – conveniently controlled by the Casambi app* via smartphone or tablet. This opens up a wide range of possibilities, from RGBW lighting in bars, restaurants or wellness areas to general lighting in hotels or shops.

Innovative projects without new wiring

For new buildings or modernizations, you have two options at your disposal. The slim OTi BLE 80 LED driver combines the advantages of the OT BLE DIM and an OPTOTRONIC® driver in one unit. As a second option, you can easily connect the OT BLE DIM LED dimmer to existing LED drivers.

24-V LED modules in various versions for a broad range of applications



For more information, please visit www.osram.com/flex.

OTi BLE – LED driver with dimmer



OT BLE DIM – LED dimmer



+ LED driver

or

CASAMBI

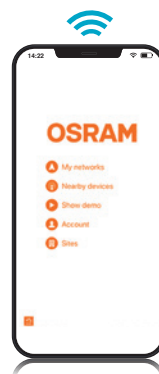


Play Store for Android



App Store for iOS

Download the Casambi app* and make light management easier than ever!



* Download Casambi app from App store or Google play. For the correct functioning of the Casambi app refer to the Casambi website: <http://www.casambi.com> The Casambi app or the Casambi cloud services are provided to you by Casambi. OSRAM shall have no liability for the Casambi app or the Casambi cloud services and does not make any representations, express or implied, about the availability and/or performance of the Casambi app or the Casambi cloud services. OSRAM shall have no liability for and does not make any representations, express or implied, about the connectivity of Casambi ready products of OSRAM with any other Casambi ready products.

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