



**TUPex**electric

# TUPEX MOWI

## Wireless light control



# MOWI

## Systems and components

CASAMBI

TRIDONIC - basicDIM Wireless

ELT – drivery DLCM-E-C2-BT eBLUE

TCI – drivery PROFESSIONALE CASAMBI


OSRAM – BT CONTROL

LUXeye Sense DALI BT

DALI ACU BT

PHILIPS – SR + EasyAir



MoWi					
					
code		SRS	SR	BTC	BT
components		IR and NFC sensor + smart driver (master)	smart driver without sensor (slave)	BT unit + DALI driver	BT ready driver
light fittings		AREL, IS, ID, G, MEGAL, QP, QPN	AREL, IS, ID, G, MEGAL, QP, QPN controlled by luminaire with sensor	surface mounted LED panels others luminaires	LED panels possible to order driver itself.

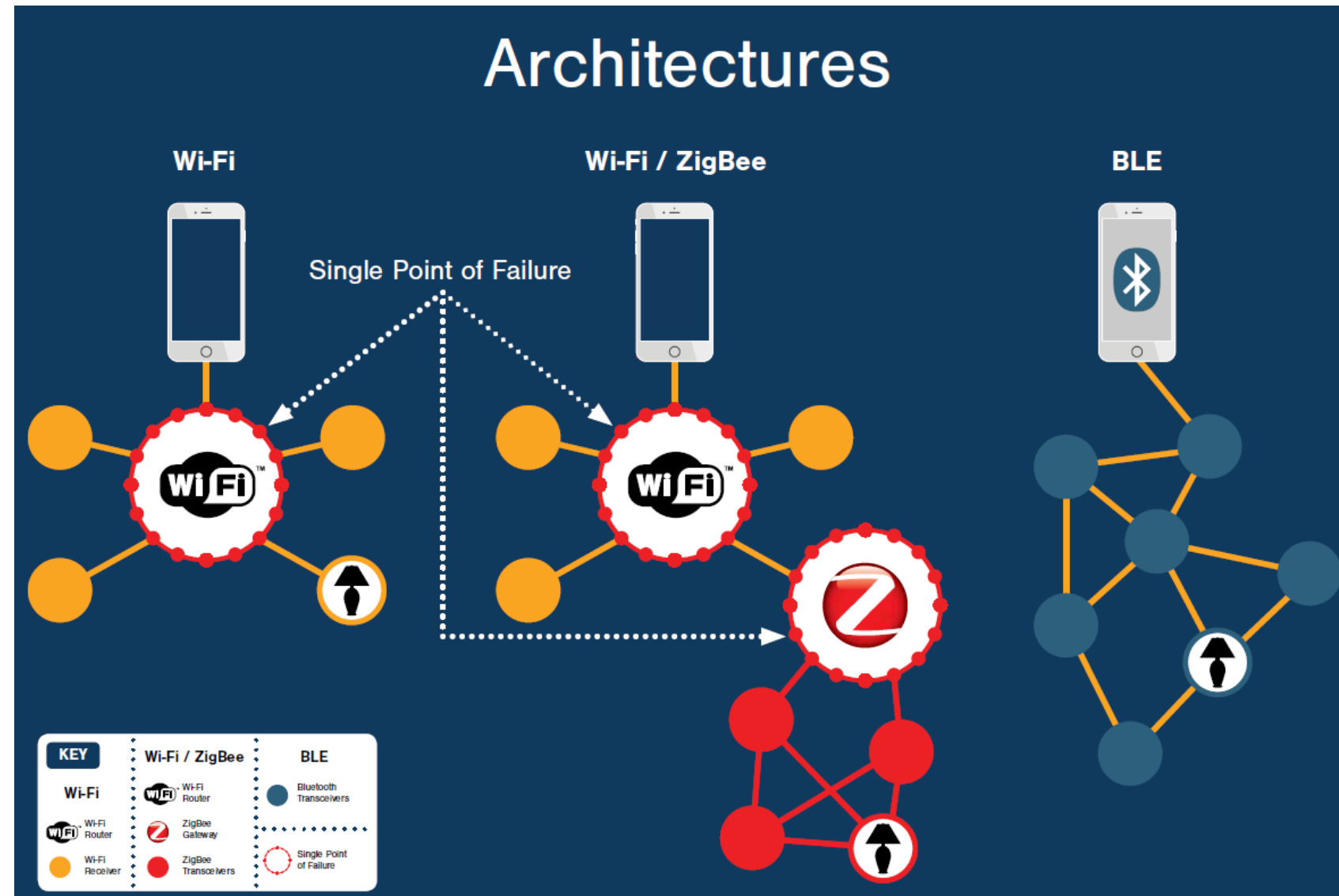
# Wireless light control

## Wi-Fi , ZigBee

- Neither of these two protocols is ideally suited to controlling lighting:
  - they're prone to interference,
  - require a strong network signal at all times throughout the whole area where lighting is in operation
  - their reliance on a gateway introduces a single point of failure, making the whole system fragile.

## Casambi's

- revolutionary system is based on Bluetooth Low Energy, the only low-power radio communication technology that's built into every modern smartphone, smart watch, laptop and tablet.
- It provides robust, professional-level smart lighting control from almost any mobile device
- installation couldn't be simpler.



# BT communication

The benefits for the luminaire manufacturer (Production) at a glance

- Simple configuration
- Define luminaire properties
- Allocate luminaire properties wirelessly

The benefits for the commissioning engineer (Installation) at a glance

- Commission, programme and control luminaires intuitively via the 4remote BT App
- Locate and assign luminaires wirelessly with ease
- Adapt the system quickly

The benefits for the building operator at a glance

- Simple updates
- Reduce power consumption
- Ensure multi-functional use for rooms
- Individual wireless light adjustments

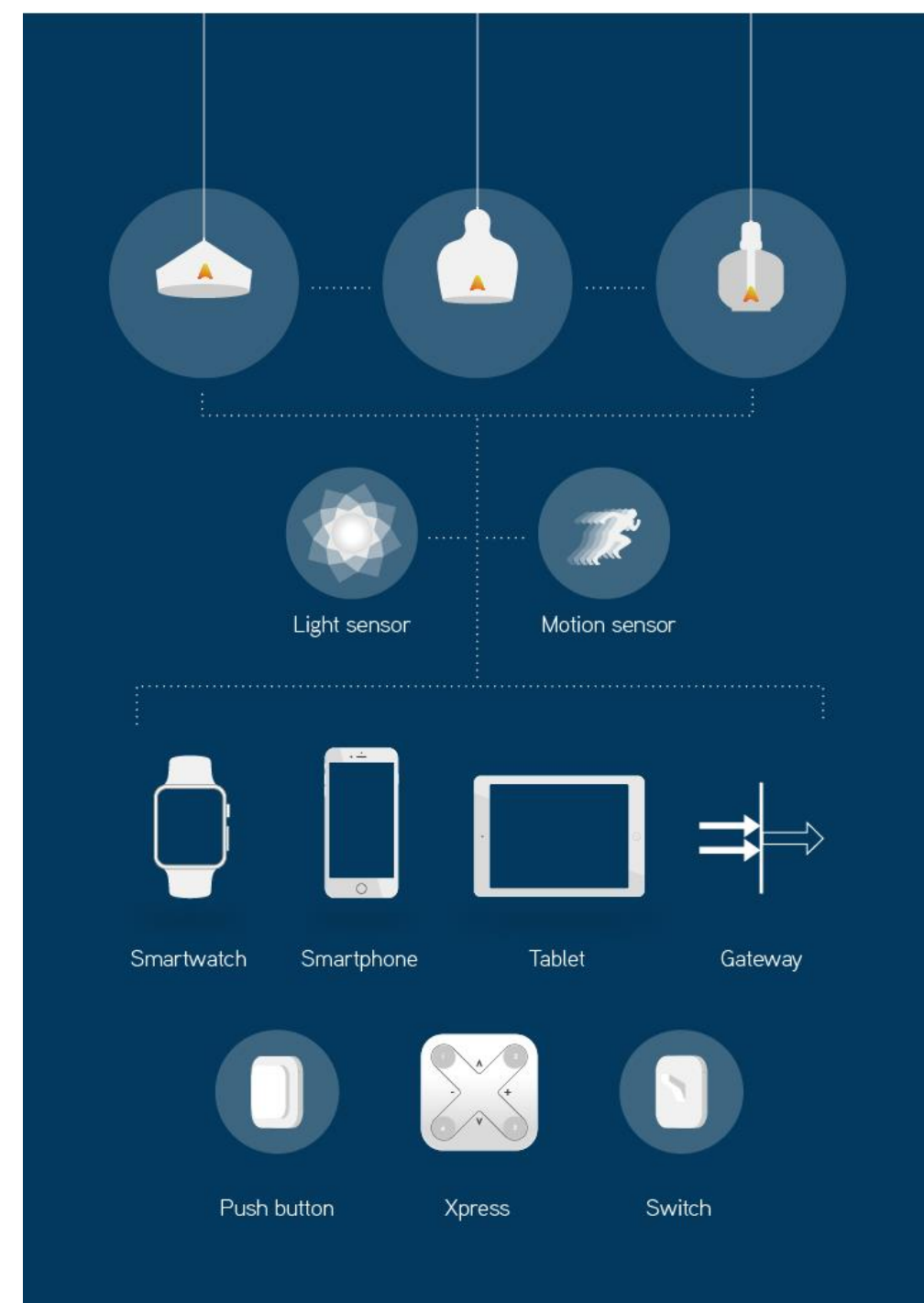
The benefits for the user at a glance

- Individual operation for luminaires
- Simple graphic luminaire selection
- Intuitively adjust the light shade and intensity



# BT features

- Wirelessly controllable
- No need for an external gateway device
- Forms automatically a fast wireless mesh network
- Very small form factor for luminaire installation
- Configurable analog/digital output
- Analog output: 0-10V sinking/sourcing
- Digital output: Standalone DALI
- Easily implemented RGB and colour temperature controls
- Controllable switched mains output
- Single 2,3 and 4 channel control
- Dimming from standard on/off wall switches
- Device firmware can be updated over-the-air



# CASAMBI - functionalities

# CASAMBI

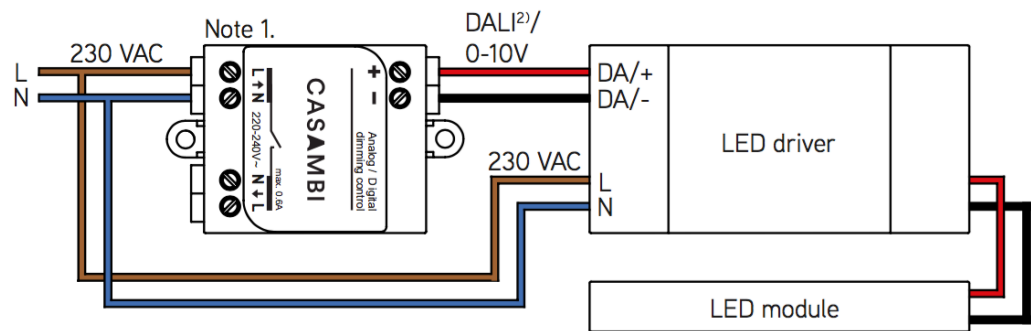
- Turn on and off your luminaires
- Dim the lighting
- Group luminaires and turn on, off and dim the group as one
- Configure, save and recall scenes and animations
- Configure, save and recall Fade time adjustments for scenes and animations
- Use the Timer to turn on and off scenes or animations based on time and date
- Adjust colours, Adjust colour temperatures
- Use motion sensors
- Bluetooth signal strength for geo locationing
- Take pictures from your spaces or upload your lighting layout drawings and add lighting control directly to your picture
- Take sunrise and sunset into account while defining timers
- Get status information from the system
- System functionality updates over-the-air, update the firmware over-the-air
- Commissioning support within the app



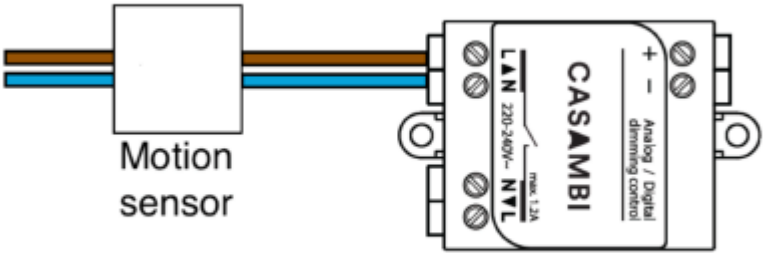
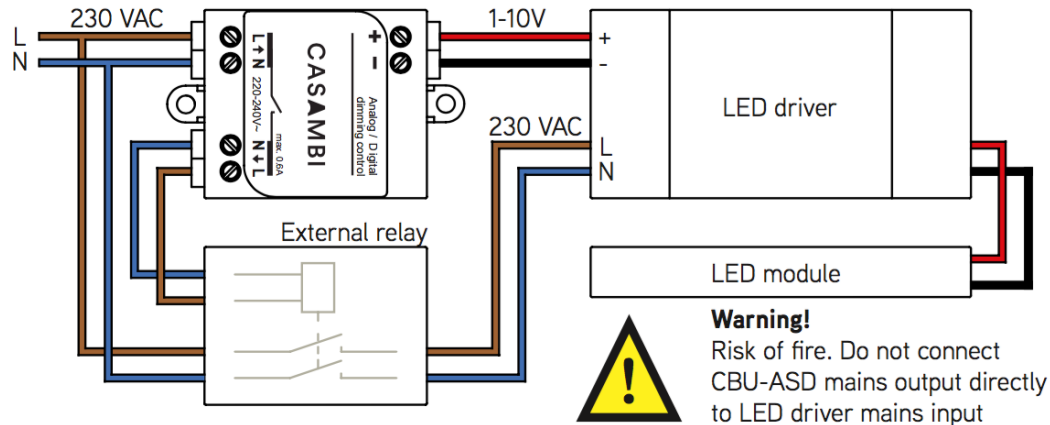


# CASAMBI

**Wiring diagram, directly powered DALI or 0-10V drivers**  
Suitable for drivers that can be switched off via control interface

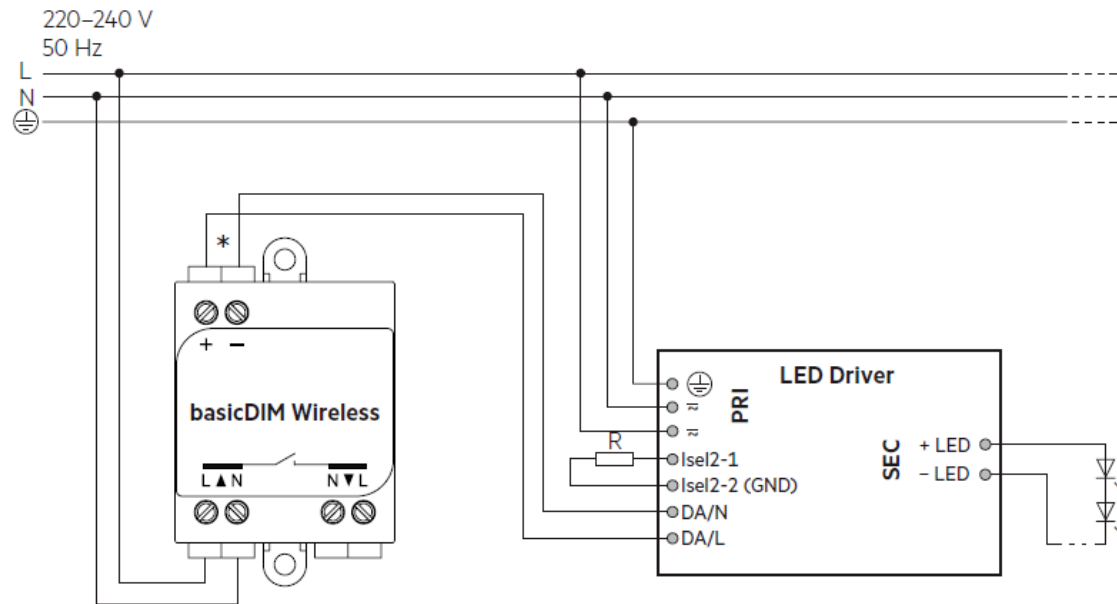


**Wiring diagram, directly powered DALI or 0-10V drivers**  
Suitable for drivers that cannot be switched off via control interface





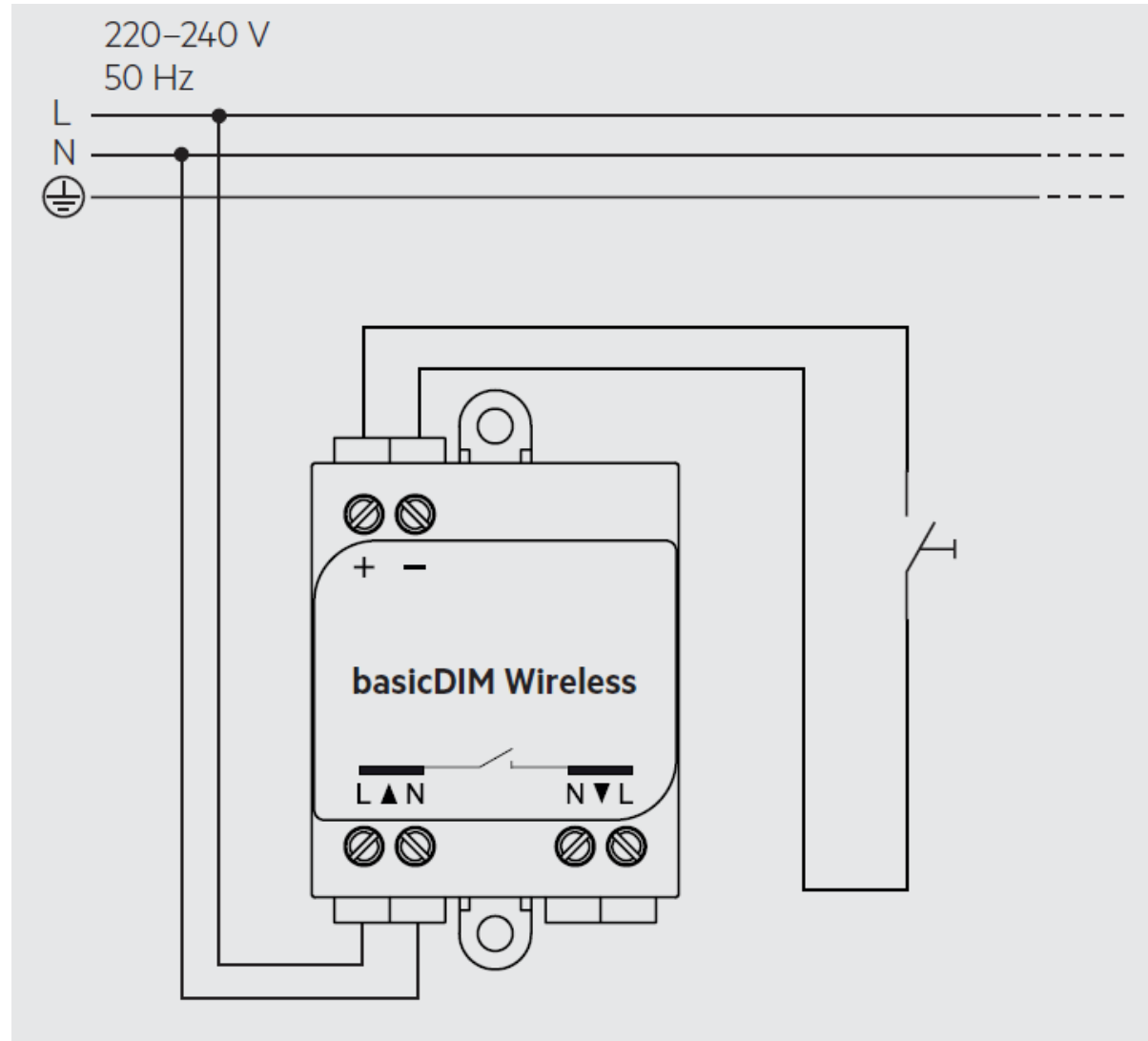
# TRIDONIC - basicDIM Wireless



Code TUPEX: 216010101

# TRIDONIC - basicDIM Wireless

Wireless button



# ELT – driver DLCM-E-C2-BT eBLUE

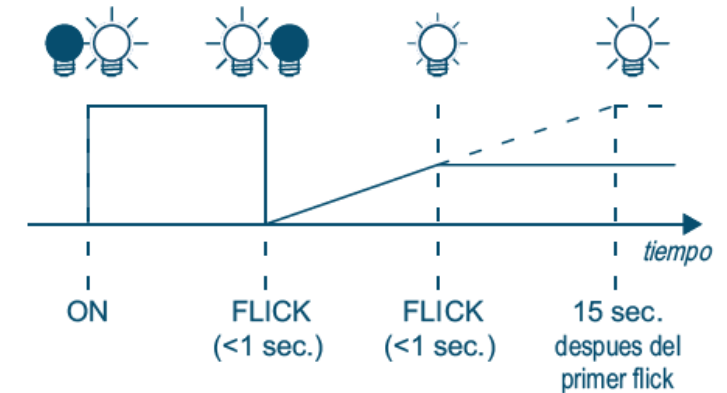
Driver 50W / 600-700 mA

Dimming with a switch or App



Dimming without App

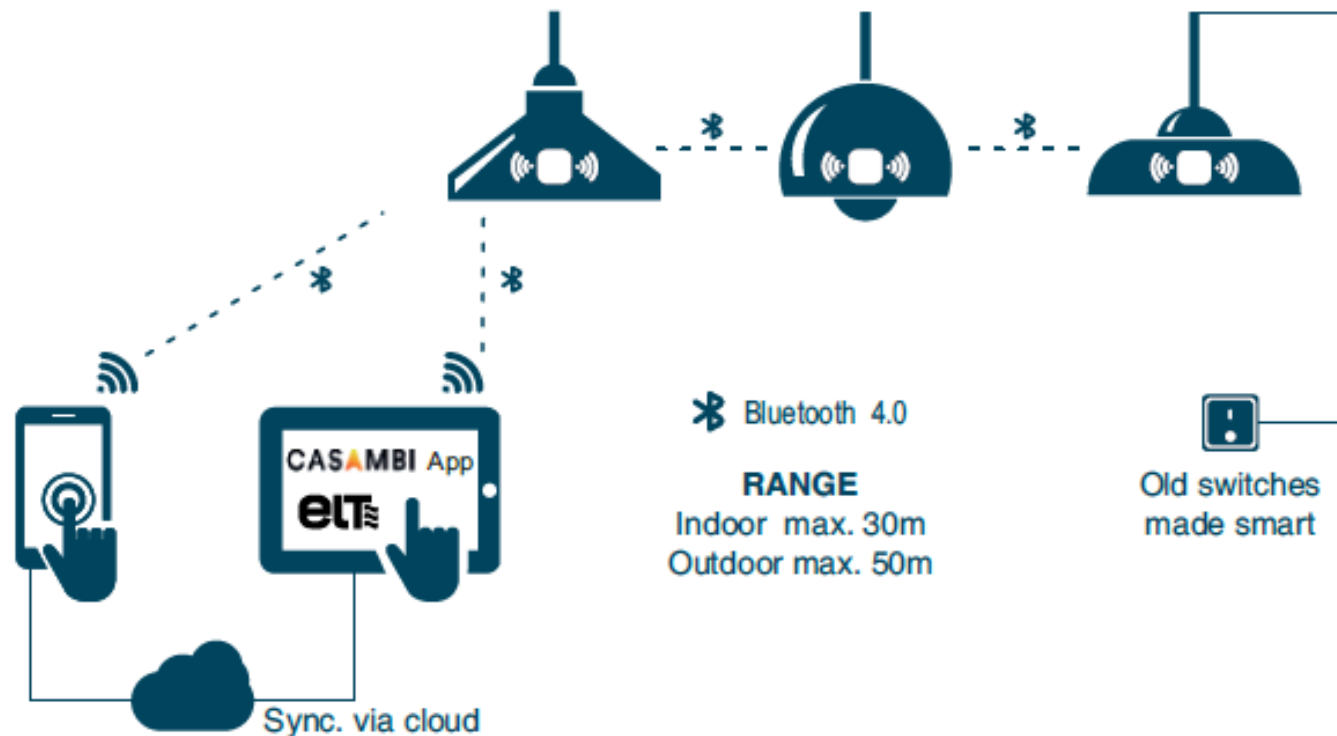
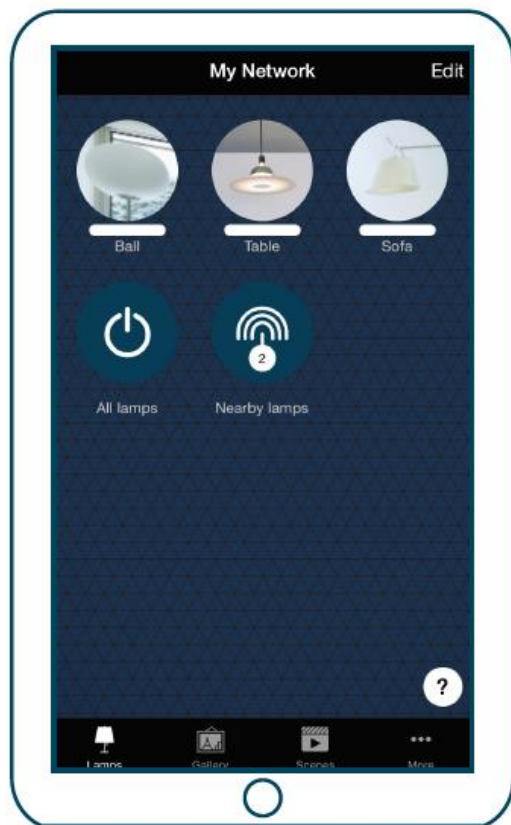
1. Turn lights on from a wall switch.
2. Quickly flick the wall switch off and back on (max.1 sec.). The light level starts to increase gradually.
3. Flick the switch again at desired dim level. The selected level is saved automatically.
4. If the second flick is not done within 15 sec. the light intensity reaches its maximum level.
5. Flicking the switch can also be used to switch between predefined scenes.



Code TUPEX: 226105034

# ELT – App ELT in CASAMBI

Dimming with a switch or App

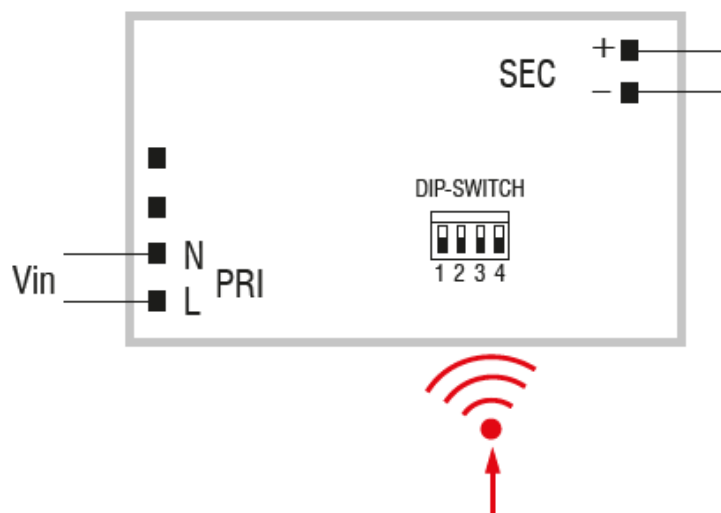


<https://play.google.com/store/apps/details?id=casambi.ambi>

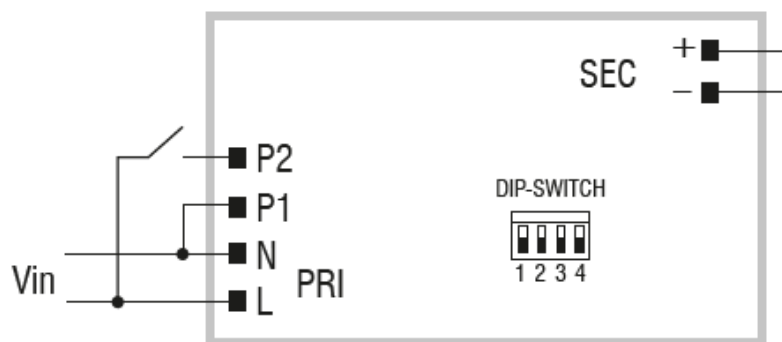
# TCI – driver PROFESSIONALE CASAMBI

Driver 38W / 350 - 1050 mA

Dimming with a switch or App



CASAMBI Wireless diagram



PUSH SWITCH diagram

Code TUPEX: 226103803

# Single / Double Rocker Wall Switch

- based on the maintenance free, self-powered Bluetooth Low Energy (BLE)
- Whenever a rocker is pushed down or released, electrical energy is created and a set of BLE advertising frames is transmitted identifying the rocker status

MOWIEASYFIT/2 – 2 channels

MOWIEASYFIT/4 – 4 channels



TUPEX codes:

MOWIEASYFIT/2

MOWIEASYFIT/4

# CASAMBI - XPRESS

- wireless user interface
- configured via the Casambi app
- A light indicates the selected preset

## Dim up, Dim down:

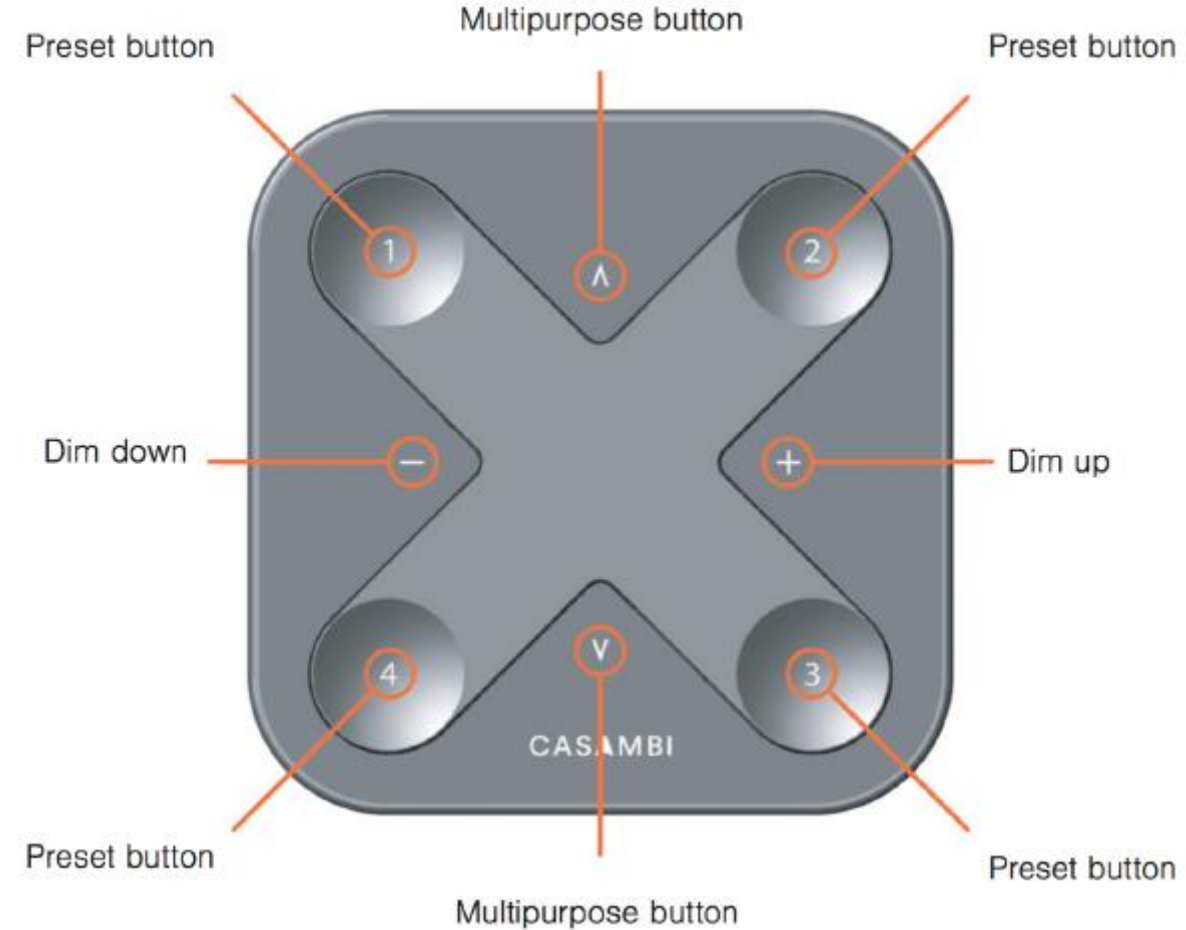
- Smooth dimming of last chosen preset

## Multipurpose buttons:

- Change of colour temperature in steps of 25 Kelvin
- Change of the indirect/direct ratio

## Preset Buttons:

- Individual luminaire control
- Group control
- Control of all lamps
- Recall scenes
- Recall animations



Code TUPEX: MOWIXPRESS/B

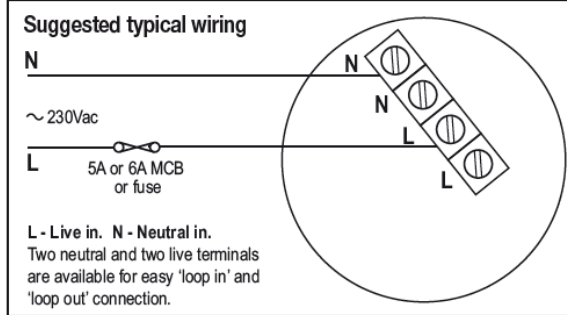


# Sensors

MOWISENZORCEFL – recessed

MOWISENZORCESR - surface mounted

Configurable for any room occupancy style, via the free to download Casambi APP on Google Play or Apple APP Store



MOWISENZORCEFL



MOWISENZORCESR

# Casambi - First time use

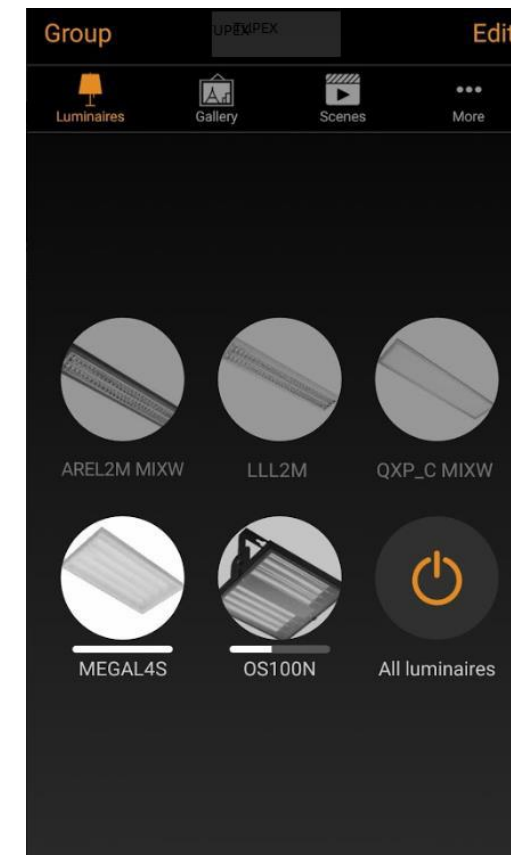
Casambi app is easy to use. Follow these simple steps.

1. Download the app from Apple App Store or Google Play Store.
2. Turn on your Casambi enabled luminaires.
3. Open the app.
4. Casambi app will automatically find all Casambi enabled luminaires that are switched on.
5. Tap on the 'Take all lamps into use'
6. Casambi app will automatically add all luminaires to one network and open the 'Lamps' tab

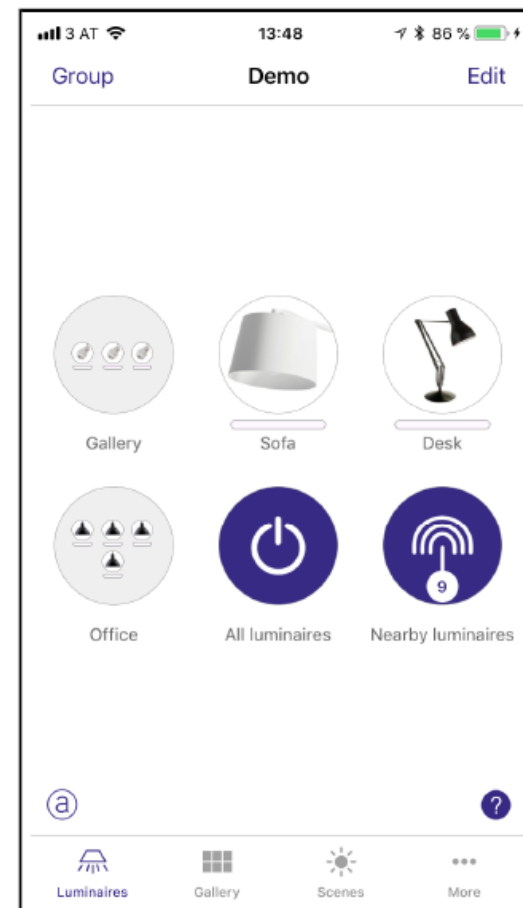


# Basic gestures

- To turn off or on your luminaire just tap on the lamp control.
- Pan lamp control left or right to adjust light level of the luminaire.
- Pan lamp control up or down to adjust the colour temperature of the luminaire.
- Hold on top of the lamp control to change the colour and save colours to palette.



# 4remote BT



<https://play.google.com/store/apps/details?id=casambi.tridonic>

# OSRAM – DALIeco BT CONTROL

216010201

- Intuitive manual dimming, switching and changing of colour temperature
- Simplified startup thanks to predefined operation modes
- Firmware update over-the-air via Bluetooth possible

## Features:

Light control with app connection via Bluetooth

One DALI broadcast output channel

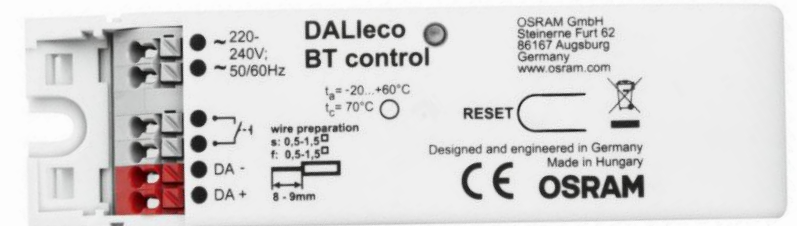
Daylight-dependent regulation and presence-dependent control of light

Connection of up to 4 OSRAM DALI sensors

Operation via standard pushbutton

Outputs with electronical reversible overtemperature, short-circuit, overload protection

Adjustment of all settings via smartphone

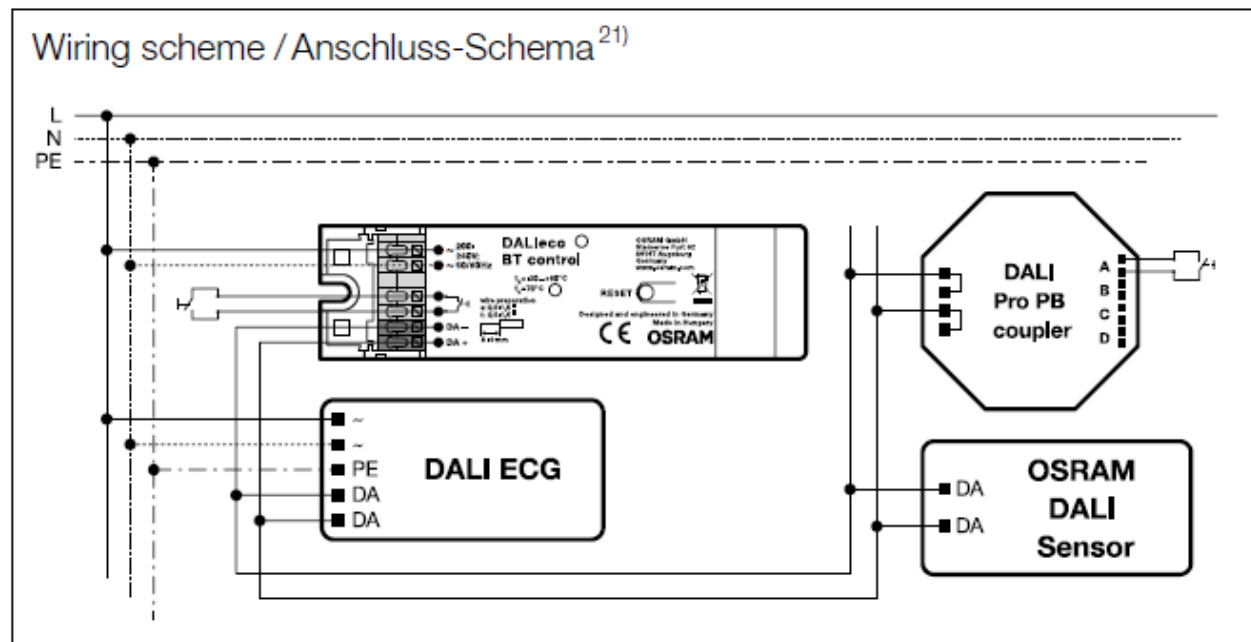


## OSRAM – DALIeco BT CONTROL

## System installation

- up to 32 drivers
- DALI sensors (max 4)
- push button
- PB coupler

Sensor: DALI LS/PD LI



OZOSDALILS/PDLI

## OSRAM – DALI ACU BT

- Luminaire integration/Integrated in flush device box
- Control of standard white or Tunable White light acc. DALI device type 8 (DT8)
- Intuitive manual dimming and switching
- Basic functionality without configuration thanks to applied pre-settings
- Integrated DALI supply
- Simple creation of scenes via App

## Light control with app connection via Bluetooth

## One DALI broadcast output channel

## Operation via standard pushbutton

## Combinable with OSRAM DALI presence- and motion detectors

Length of the DALI control cable: up to 300 m

Length of the pushbutton cable: up to 50m

OZOSDALIACUBT





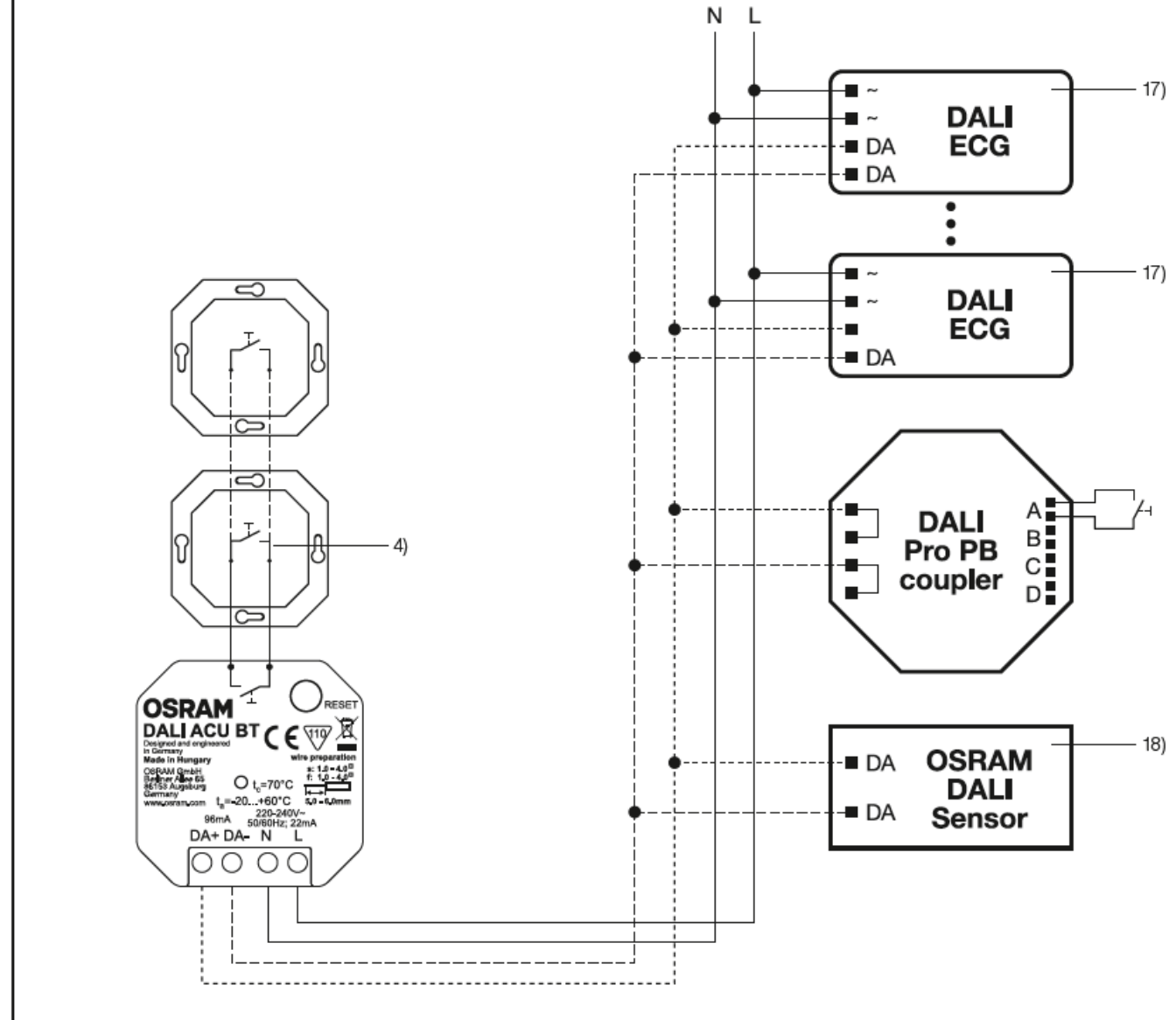
# OSRAM – DALI ACU BT

## System installation

- up to 32 drivers
- DALI sensors (max 4)
- push buttons
- PB coupler

Senzor: DALI LS/PD LI

Combination manual control and motion detectors /  
Kombination manuelle Steuerung und Bewegungsmelder<sup>19)</sup>



# OSRAM – LUXeye Sense DALI BT

Light control unit with integrated light and presence sensor

- Automatic start of light regulation after power-on (out of the box function)
- Basic functionality without configuration thanks to applied pre-settings
- Easy and fast customization of important parameter via screwdriver

One DALI broadcast output channel

Daylight-dependent regulation and presence-dependent control of light

Operation via standard pushbutton

Outputs with electrical reversible short-circuit and overload protection

Change of delay time with screwdriver direct at the sensor

Change of lighting intensity with screwdriver direct at the sensor

Halogen free polycarbonate plastic housing

Controller with integrated light and presence sensor, DALI output channel

Presence detection via passive IR element

Light control with app connection via Bluetooth

Light control via smart phone

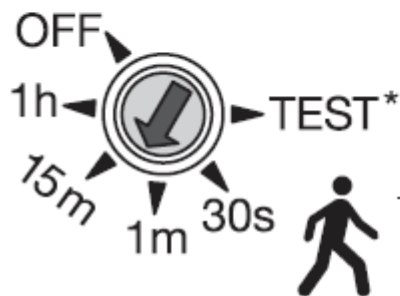


# OSRAM – LUXeye Sense DALI BT

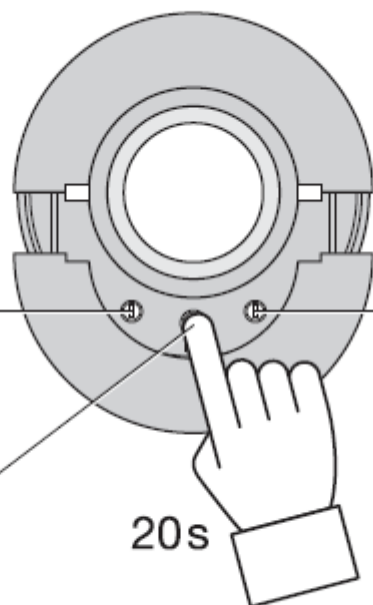
Code TUPEX: OZOSLUXEYESENSEBT

**13**

Set the delay<sup>8</sup>



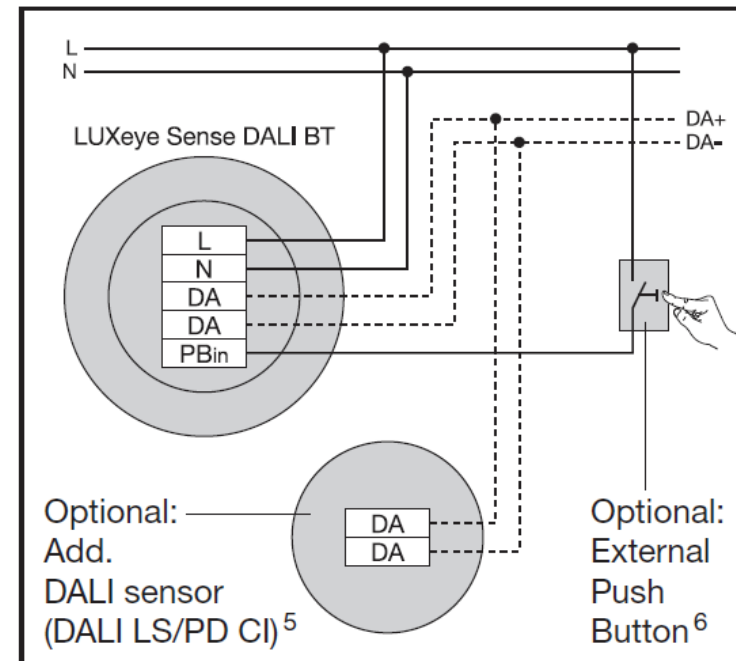
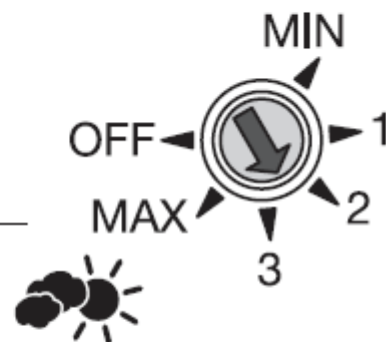
\* Check monitoring area<sup>9</sup>  
(1s delay time)



20s

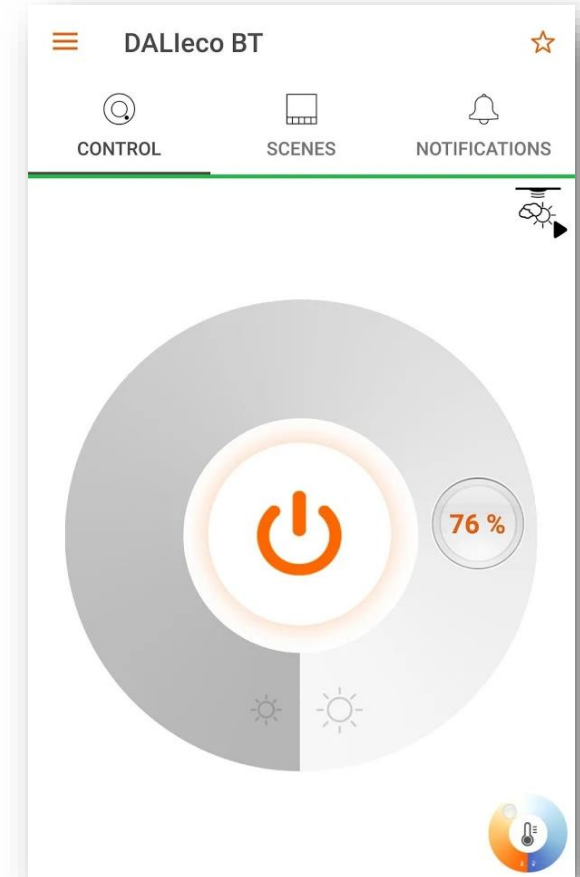
Reset: The factory settings are restored.<sup>11</sup>

Set the light value<sup>10</sup>



# BT control

Easy access via Bluetooth wireless technology for controlling the light of OSRAM BT products

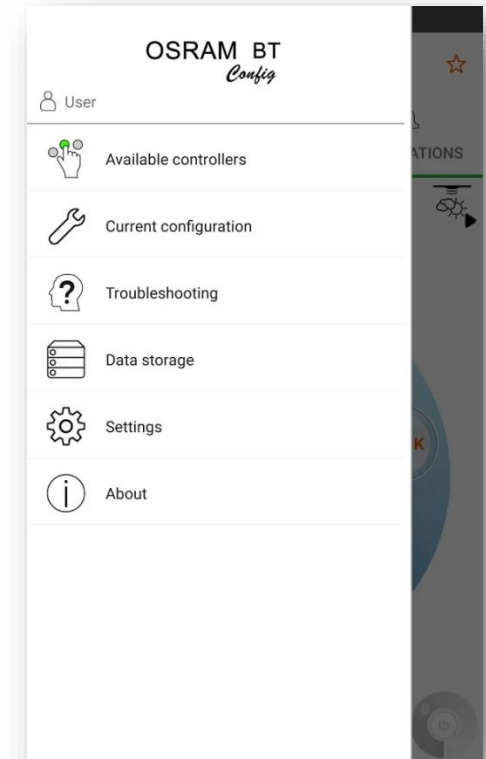


<https://play.google.com/store/apps/details?id=com.osram.bt.control>

# BT config

Full access via Bluetooth wireless technology to all configuration parameters of OSRAM BT products.

Easy commissioning via predefined profiles, integrated report functions and troubleshooting wizard.



<https://play.google.com/store/apps/details?id=com.osram.bt.config>

# PHILIPS – driver SR + sensor EasyAir

Connection between driver and sensor

Controll

NFC – parameters settings

IR – group settings

wireless push button PHILIPS

UID8450/10 ZGP Switch Dim 2B

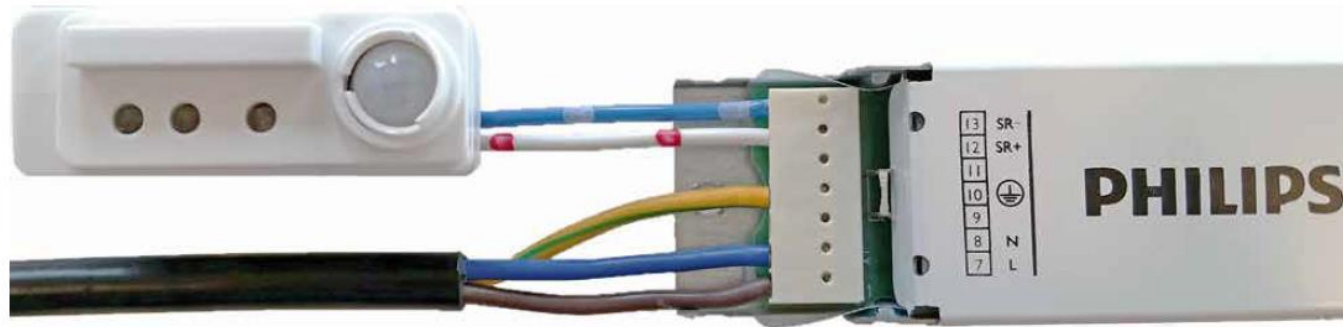
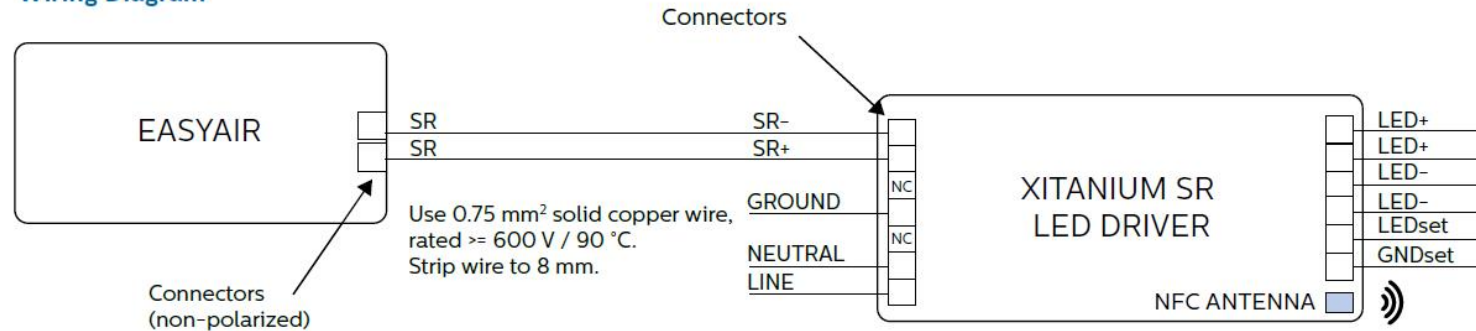


Code TUPEX: ...../SRS

# PHILIPS – driver SR + sensor EasyAir

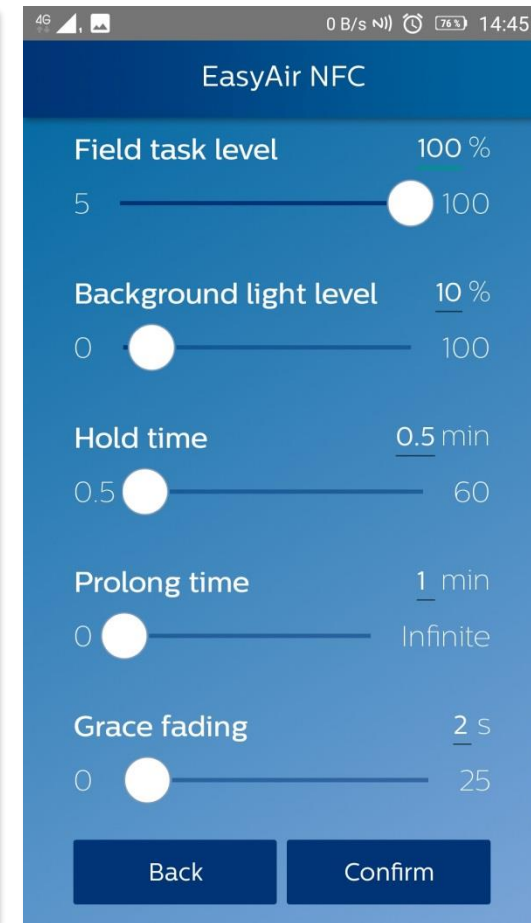
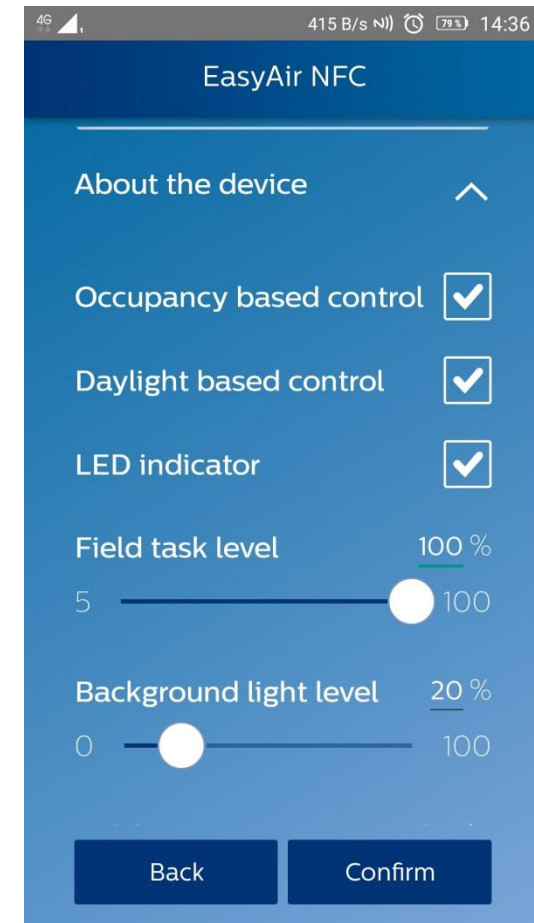
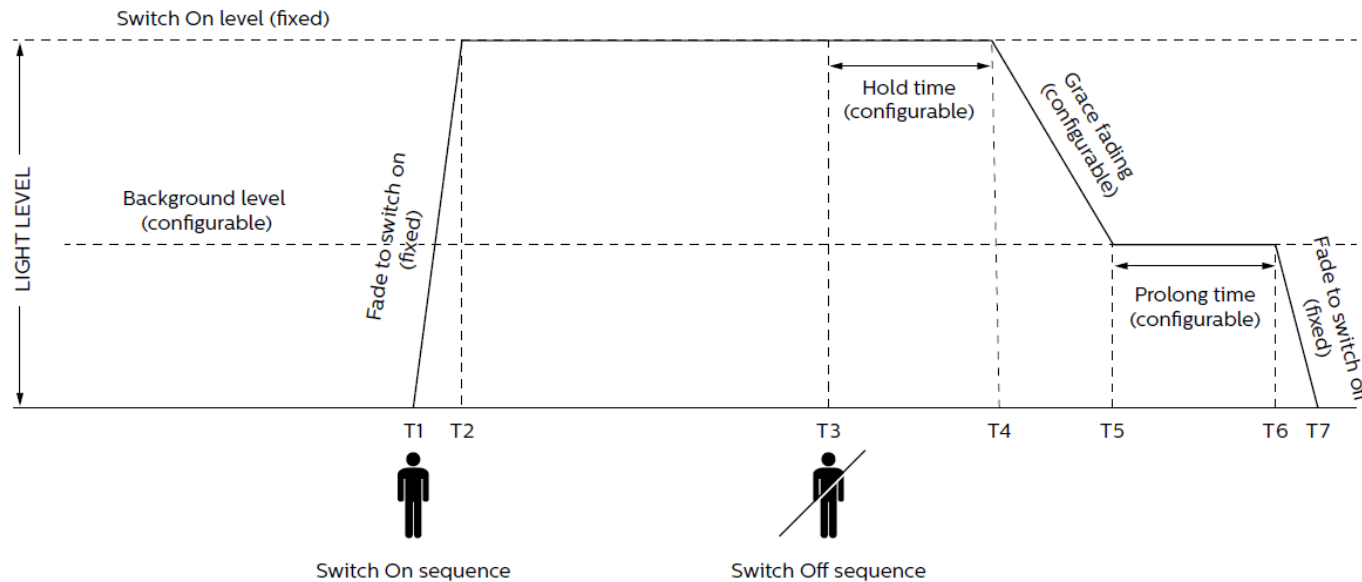
## Wiring

### Wiring Diagram





# PHILIPS – driver SR + senzor EasyAir



# PHILIPS – group communication

