



Light is easy to control

DALI ECO: Multi-functional light management system for luminaire and ceiling integration

Light is OSRAM

**OSRAM**

# Intelligent and powerful light management system for lighting groups

DALI ECO is a DALI-based light management system for easy integration into luminaires – from individual units to strip lighting.

2 DALI channels, 1-click setup, selectable lighting modes and remote-controllable extra functions – DALI ECO offers a wide range of operation possibilities for intelligent energy-saving solutions. The modular system is setting standards in terms of flexibility in planning and installing a cost-efficient light management system. It can be used for lighting groups in small and medium-sized rooms and corridors. DALI ECO is easy to operate and can be adapted perfectly to the relevant application using the configuration remote control.

## Main benefits

### Flexible

The system components offer the possibility of direct luminaire integration as well as independent installation. Floor-standing luminaires, for example, can be interlinked wirelessly via the DALI ECO Swarm Adapter, if required.

### Powerful

Up to 32 DALI ECGs, 10 sensors and any number of pushbuttons can be connected to a DALI ECO controller.

### Intelligent

1-click setup enables fully automatic system calibration in accordance with the lighting regulations for workplaces.

### Easy

In the plug & play mode, DALI ECO runs out of the box without programming. Integration of extension sensors and additional pushbuttons via the DALI lines is easy and installation-friendly.

### Convenient

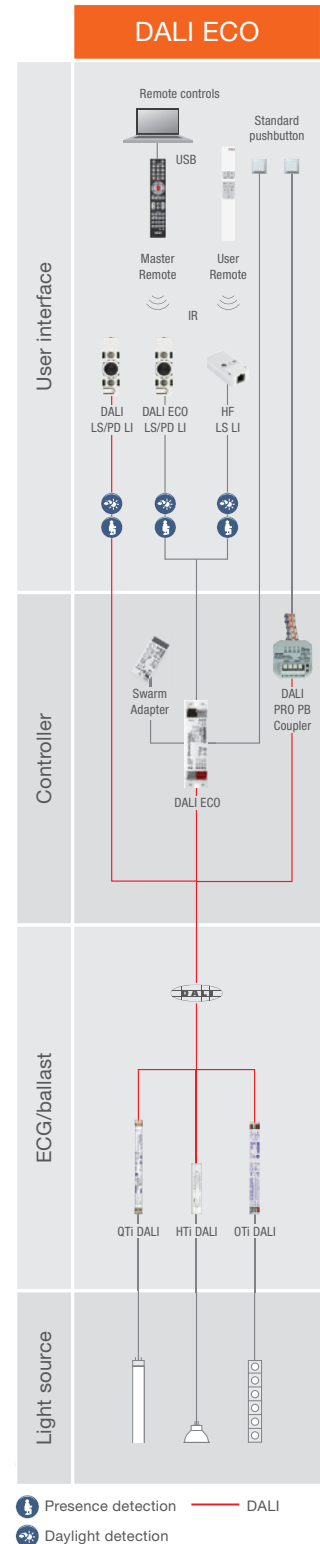
With an intuitive PC software with visualization possibility, individual function profiles can be created, transmitted to the remote control via USB and stored at the push of a button.

## Applications

- Offices: single and group workplaces
- Classrooms and training rooms
- Staircases and foyers
- Toilets and washrooms
- Corridors in factories and warehouses

The latest software can be found here:  
[www.osram.com/software](http://www.osram.com/software)

## System overview



# Easy setup thanks to new plug & play functions

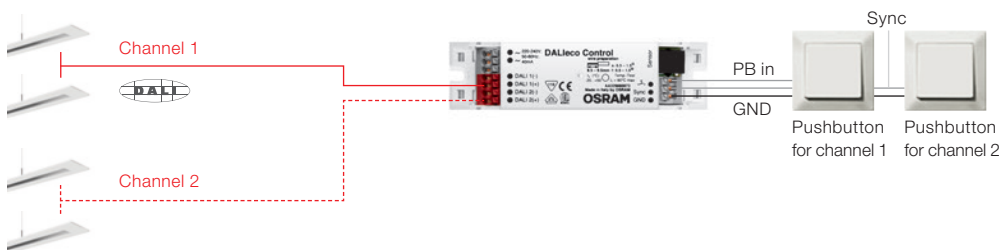
The DALI ECO system offers a wide range of different setups, now also including plug & play functions that do not require commissioning anymore.

## DALI ECO as manual pushbutton control (no sensor connected)



- **New:** Storage of individual switch-on value by double-click
- **New:** Real plug & play, no commissioning required
- Manual dimming and switching of up to 32 ECGs
- Length of cable connection to the pushbuttons of up to 50 m, unlimited number of connectable pushbuttons

## DALI ECO as manual 2-channel pushbutton control (no sensor connected)



- **New:** Manual dimming and switching of up to 2 x 16 ECGs
- **New:** Plug & play, activation of pushbutton control input for channel 2 by pressing both buttons for 10 s simultaneously\*
- Storage of individual switch-on value for each channel by double-click
- Length of cable connection to the pushbuttons of up to 50 m, unlimited number of connectable pushbuttons

## DALI ECO for automatic lighting control of single luminaires/single offices



- **New:** Out-of-the-box daylight-dependent control by factory-preset set point
- **New:** Out-of-the-box automatic presence detection with a switch-off delay of 15 min
- **New:** Storage of an individual daylight set point by double-click
- Manual dimming and switching by directly connected pushbutton
- Length of cable connection to the pushbuttons of up to 50 m, unlimited number of connectable pushbuttons
- Plug & play for direct connection of up to 4 sensors to the control unit and up to 6 presence extension sensors via DALI\*\*

\* Deactivation of pushbutton control input for channel 2 by pressing both pushbuttons for 20 s simultaneously

\*\* The mains power has to be switched off before the connection/disconnection of new components (no hot plugging!)

# Flexible setting possibilities for professional light management

New advanced setting functions add more possibilities to the DALI ECO system and make it more efficient and comfortable.

## Advanced setting functions

### Individual restriction of min. and max. light output

- Ensures minimal amount of artificial light for safety reasons
- Restriction of maximum power in thermally critical environments
- Valid for manual and daylight-dependent control

### Daylight regulation between min. and max. light output without switch-off

- Combination of daylight-dependent dimming and manual ON/OFF with a conventional light switch. Clear distinction between ON and OFF for the end user.
- Individual restriction of min. and max. light output
  - Ensures minimal amount of artificial light for safety reasons
  - Restriction of maximum power in thermally critical environments

### Combination of daylight-regulated and open-loop-controlled channel

- Combination of open-loop-controlled indirect uplight, cove lighting etc. with daylight-regulated direct light/workplace lighting, e.g. ceiling brightening with different color temperatures
- Individual setting of each channel by two directly connected pushbuttons
- Optional control by central presence detection

### Hard switching between different light levels in open-loop-controlled applications

- Instant change of light levels: Quick light in highly frequented corridor applications or warehouses with forklifts

### Intelligent swarm functionality

- Requires DALI ECO Swarm Adapter
- Ideally suitable for installation into floor-standing lamps, workstations for group work, open-plan offices, aisles and corridors, underground parking garages

## Working principle of swarm functionality

Unoccupied workstation  
**Reduced illuminance**



Occupied workstation  
**Normal illuminance**



Unoccupied workstation  
**Reduced illuminance**





# All DALI ECO products at a glance



## DALI ECO Control – control unit

Product name	GTIN (EAN)	V	Hz	CONTROL	No. of OUTPUTS	W SYSTEM	IP	
DALI ECO Control	4008321988645	230	50...60	DALI	2	4	IP20	Luminaire/ceiling integration
		T <sub>a</sub>	l [mm]	b [mm]	h [mm]			
		-20...+50	118	30	21	25		



## DALI ECO Swarm Adapter – wireless transmission of presence information between DALI ECO Control units

Product name	GTIN (EAN)	IP				
DALI ECO Swarm Adapter	4052899955646	IP20	Luminaire integration			
		T <sub>a</sub>	l [mm]	b [mm]	h [mm]	
		-20...+50	68	30	11	45



## DALI ECO LS/PD LI – light and presence sensor for workplaces

Product name	GTIN (EAN)					IP	
DALI ECO LS/PD LI	4008321988652	5	7 <sup>1)</sup>	80 <sup>2)</sup>	20...800 <sup>3)</sup>	IP20	Luminaire integration
		T <sub>a</sub>	COLOR	l [mm]	b [mm]	h [mm]	
		-20...+50	Gray	48	15	17	25



## DALI ECO LS/PD LI NP – light and presence sensor for corridors

Product name	GTIN (EAN)					IP	
DALI ECO LS/PD LI NP	4052899914636	5	7 <sup>1)</sup>	80 <sup>2)</sup>	20...800 <sup>3)</sup>	IP20	Luminaire integration
		T <sub>a</sub>	COLOR	l [mm]	b [mm]	h [mm]	
		-20...+50	Gray	48	15	17	25



## HF LS LI – radar light and motion sensor

Product name	GTIN (EAN)				IP		
HF LS LI	4052899921481	18	35...80	20...800 <sup>3)</sup>	IP20	Luminaire attachment/integration	
		T <sub>a</sub>	COLOR	l [mm]	b [mm]	h [mm]	
		-20...+50	White	56	28	21	25

1) m<sup>2</sup>  
 2) Approximately  
 3) Approximately, measured at the sensor

# Accessories



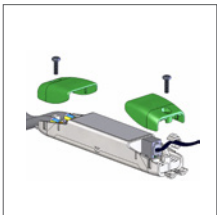
## DALI ECO Remote PC KIT – Master Remote control including USB cable/PC software

Product name	GTIN (EAN)						
DALI ECO Remote PC KIT	4052899195967	10	Black	230	45	13	10



## User Remote – IR remote control for comfortable manual control

Product name	GTIN (EAN)						
User Remote	4008321826435	10	White	230	33	10	10



## ECO CI KIT – cable clamp kit for independent mounting of DALI ECO Control

Product name	GTIN (EAN)
ECO CI KIT	4008321392091



## LS/PD CI KIT – ceiling integration adapter for LS/PD sensors



















Product name	GTIN (EAN)
LS/PD CI KIT	4052899920293



## LS/PD AP KIT – ceiling surface mounting adapter for LS/PD sensors

Product name	GTIN (EAN)
LS/PD AP KIT	4052899173385

# Symbols

 System wattage in W	 Height h in mm	 Ambient temperature range in °C
 Voltage in V	 Maximum installation height in m	 Detection area
 Operating frequency in Hz	 Beam angle in °	 Working range of light sensor in Lx
 Color	 Type of protection	 Type of installation
 Length l in mm	 Control	 Transmitter range in m
 Width b in mm	 Number of control outputs	 Standard pack in pcs.

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