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

System overview
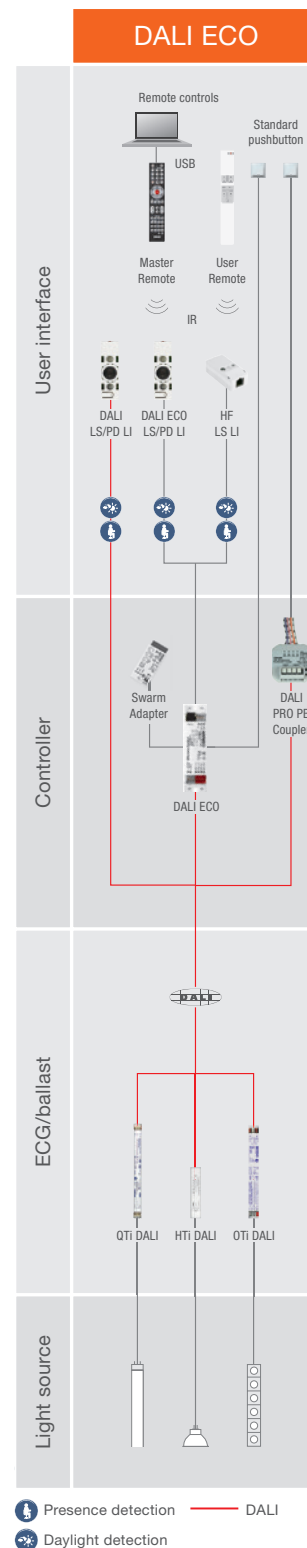
Easy setup thanks to new plug & play functions

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_a	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_a	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)	h m	◁	∧°	Lx	IP	🔧
DALI ECO LS/PD LI	4008321988652	5	7 [1]	80 [2]	20…800 [3]	IP20	Luminaire integration
		T_a	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)	h m	◁	∧°	Lx	IP	🔧
DALI ECO LS/PD LI NP	4052899914636	5	7 [1]	80 [2]	20…800 [3]	IP20	Luminaire integration
		T_a	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)	h m	∧°	Lx	IP	🔧
HF LS LI	4052899921481	18	35…80	20…800 [3]	IP20	Luminaire attachment/integration
		T_a	COLOR	l [mm]	b [mm]	h [mm]	📦
		-20…+50	White	56	28	21	25

1) m²
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)	m	COLOR	l [mm]	b [mm]	h [mm]	
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)	m	COLOR	l [mm]	b [mm]	h [mm]	
User Remote	4008321826435	10	White	230	33	10	10
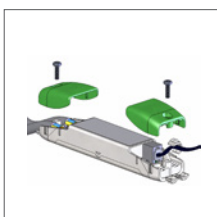
ECO CI KIT – cable clamp kit for independent mounting of DALI ECO Control

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

W SYSTEM	System wattage in W	h [mm]	Height h in mm	Ta	Ambient temperature range in °C
V	Voltage in V		Maximum istallation height in m		Detection area
Hz	Operating frequency in Hz		Beam angle in °	Lx	Working range of light sensor in Lx
COLOR	Color	IP	Type of protection		Type of installation
l [mm]	Length l in mm	CONTROL	Control		Transmitter range in m
b [mm]	Width b in mm	No. of OUTPUTS	Number of control outputs		Standard pack in pcs.

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