

DALI-2

DALI-2 made simple!

Time for intelligent light.



 steinel

The Steinel logo features a solid orange circle followed by the word "steinel" in a bold, black, lowercase sans-serif font.

DALI World at STEINEL

System

- From simple to extensive [06](#)
- Difference between DALI and DALI-2..... [08](#)
- DALI structure and layout [09](#)

Products

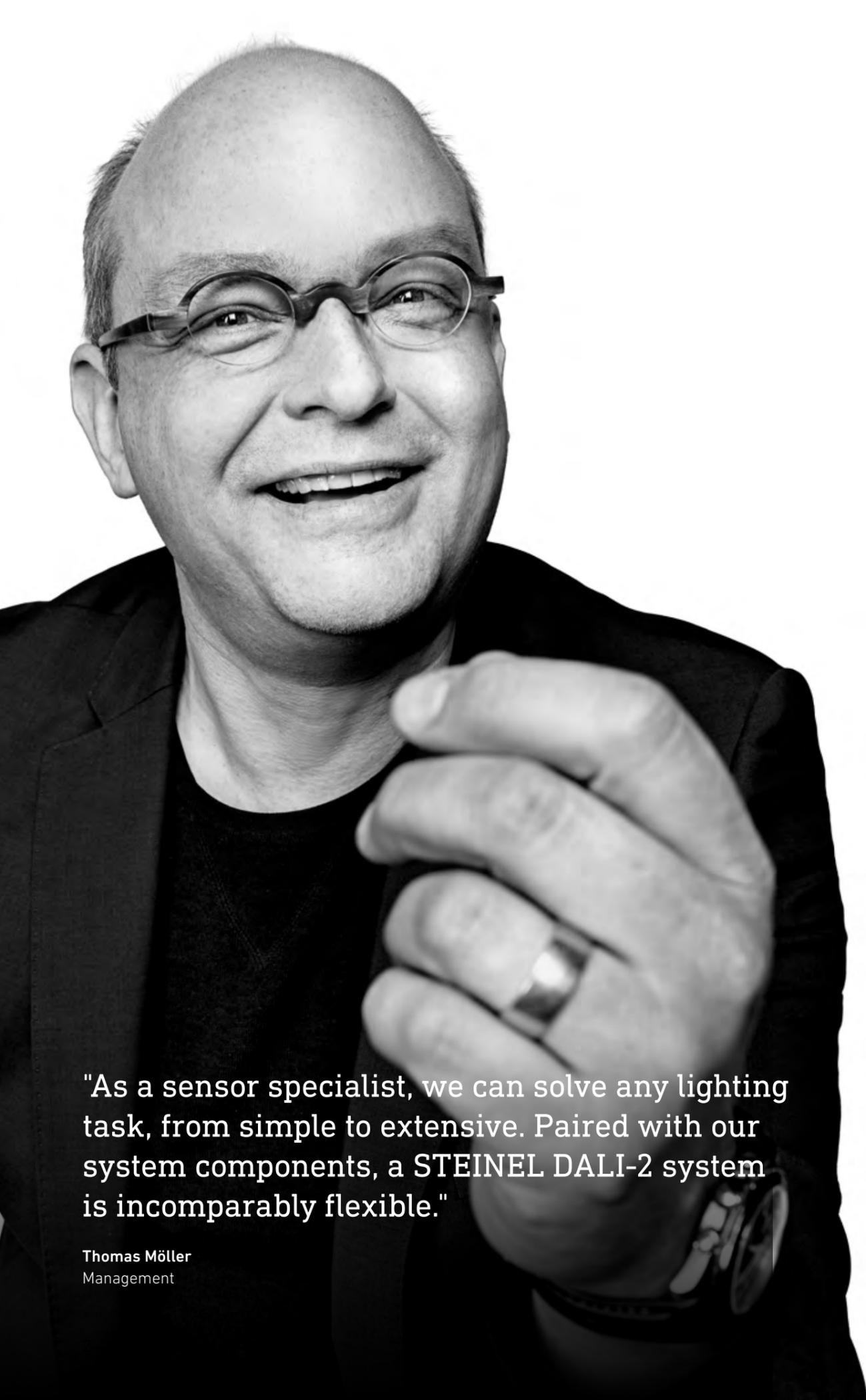
- Application Controller (APC)..... [10](#)
- Input devices (IPD) [14](#)
- System components [18](#)
- LiveLink system - flexible multi-room solution..... [22](#)

Applications

- Single office [26](#)
- Meeting room [28](#)
- Open-plan office [30](#)
- Classroom [32](#)
- Gymnasium..... [34](#)
- High-bay warehouse [36](#)
- Breakfast room..... [38](#)
- Corridor..... [40](#)
- WC [42](#)

Compatibility and integration

- Building management systems [46](#)
- KNX integration..... [48](#)



"As a sensor specialist, we can solve any lighting task, from simple to extensive. Paired with our system components, a STEINEL DALI-2 system is incomparably flexible."

Thomas Möller
Management

DALI world at STEINEL.

Digital lighting control is a central component of modern building technology - efficient, flexible and future-proof. With DALI-2 solutions from STEINEL, lighting systems can be intelligently controlled and perfectly customised to individual requirements. STEINEL is the only manufacturer to offer not only high-quality sensors but also additional Bluetooth system components for even easier system scaling - all from a single source. Experience the future of lighting control with STEINEL DALI-2 solutions!

From simple to extensive. Any lighting task can be solved.

Lighting groups are the key to flexible and efficient control of modern DALI solutions – from simple applications to complex scenarios. It is crucial that they are precisely controllable, scalable and fully compatible with the DALI-2 standard to ensure seamless integration and reliable communication. As specialists in sensor technology, we offer a wide range of products to provide the right sensor for every application. From simple lighting control in an individual office with just one luminaire group to comprehensive lighting control with up to 16 luminaire groups for entire floors. Just do it!



IR Micro Office,
3000 series



IR Quattro HD
DALI duo 24m



IR Quattro HD
DALI plus 24m



LuxMaster series



LiveLink

Number of lighting groups

1

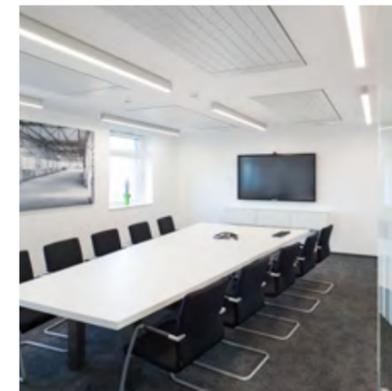
2

3

4

16

Areas of application



The evolution of digital lighting control.

Compared to DALI-1, DALI-2 offers improved interoperability, extended diagnostics-possible and greater flexibility in the integration of sensors and control devices. A decisive advantage is the complete backwards compatibility with DALI-1, which means that existing systems can be upgraded without any problems.



- For DALI-1, only control gear (e.g. luminaire, LED driver) had to comply with the standard
- Use exclusively for controlling lighting systems

- Since 2019 under the auspices of the DALI Alliance (DiiA - Digital Illumination Interface Alliance)
- With the mandatory DALI-2 certification, in addition to the control gear, control gear must also comply with the specifications of the standardisation.
- Control devices can be application controllers that are combined with push-buttons, rotary controls, light, presence and motion sensors (e.g. DALI-2 IPD).
- Products from different manufacturers can now be combined.
- New functions and commands
- Downwards compatible with DALI-1 systems

Topology

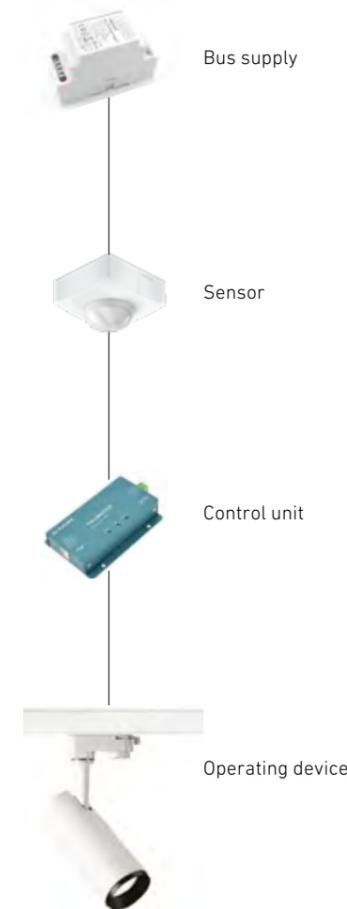
- The DALI voltage is 16V, and the maximum voltage drop must not exceed 2V.
- The maximum cable length is 300 metres (when using 1.5mm² conductors).
- The DALI bus may be routed in a common sheath alongside the 230V cable (e.g. NYM-I 5x 1.5mm²) (advantage in installation!).
- The DALI bus is galvanically isolated and polarity-free (reverse polarity protected).
- The DALI bus can be laid out as a star, line or tree structure; ring-shaped wiring must be avoided at all costs!
- A maximum of 64 operating devices (lights) in a maximum of 16 groups per DALI bus are permitted.

STEINEL Application Controller – the central intelligence in the system.

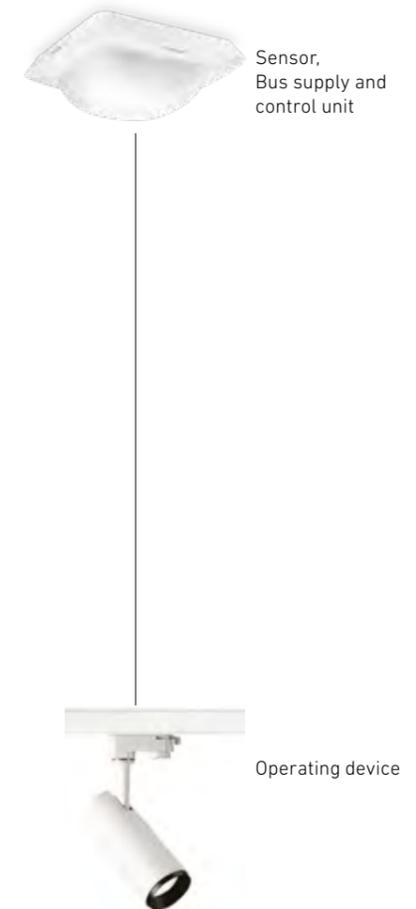
- Decision-maker in the system
- Picks and configures the system
- Controls the lighting by sending direct commands to operating devices
- Only operating devices that do not require addressing are connected to a single master, IR Micro Office
- Additional input devices, such as IPDs or push-button couplers, can be connected to a multi-master, Control PRO II series/DALI plus/3000 series



Topology in general



STEINEL Application Controller (APC)



LuxMaster – Top-of-the-range DALI-2 application controller.

LuxMaster represents the new generation of networked lighting control – DALI-2 controllers that combine bus voltage, sensor technology and intelligent control in a single device. For precise and quickly configurable lighting management that combines function and design.

Special features

- Best detection quality with infrared, high-frequency or TruePresence® technology.
- The application controller combines bus voltage, sensor and control unit in one product. Add to that plug & play factory settings – it couldn't be easier.
- All infrared sensors are Sensnorm certified, providing planning reliability for flawlessly functioning and energy-optimised lighting solutions.
- Bluetooth Mesh networking significantly simplifies commissioning. It also makes the DALI system more flexible. This means that wireless push buttons, push button couplers, rotary dimmers or gateways can be integrated at a later date – all from a single source!

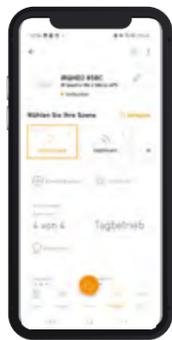
Plug & Play factory settings – ready for immediate use.

Simple and quick light management right from the start.

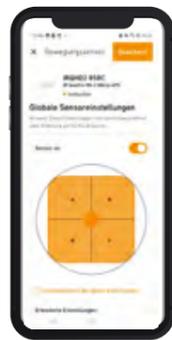
Fully automatic DALI-2 operating mode in broadcast with main and basic lighting functions set in the factory settings.

Advantages of the STEINEL Connect app

- Complete overview of sensor settings
- Create your own templates for configuration
- Document and organise multiple projects
- Share projects within your team and assign access rights
- Store data in the cloud and access it remotely



Start up the sensor with the factory settings.



Adjust sensor settings to meet requirements.



Configure additional components via the app.



Define scenes and create schedules.



The LuxMaster series::



- LuxMaster True Presence®**
- 360° high-frequency sensor
 - Mounting height max. 12m
 - Range Ø 15m



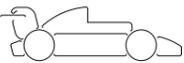
- LuxMaster Hallway**
- 360° high-frequency sensor
 - Maximum mounting height 4m
 - Range 25 x 3m



- LuxMaster HF 360-2**
- 360° high-frequency sensor
 - Maximum mounting height 4m
 - Range Ø 12 m



- LuxMaster IR Quattro HD-2 24 m**
- 360° infrared sensor
 - Maximum installation height 10m
 - Range 24 x 24m

 <p>Simple to plan. The sensors in the LuxMaster series combine bus voltage, sensor and control in a single device.</p>	 <p>Quick to operate. Fully automatic operation with main and basic lighting functions is possible even with the factory settings.</p>
 <p>Individually customisable. The sensor settings required for the respective requirements can be made via the app.</p>	 <p>Flexible in use. The area can be expanded with additional sensors and system components can be integrated via Bluetooth Mesh.</p>

Application Controller - Sensors in comparison.



	IS 3360	IS 3360 MX Highbay	IS 345	IS 345 MX Highbay	IS 3180		IR Quattro HD 24m Dali duo	IR Quattro HD 24m Dali plus	IR Micro Office	LuxMaster HF 360-2	LuxMaster Hallway	LuxMaster True Presence®	LuxMaster IR Quattro HD-2
Technology	Infrared	Infrared	Infrared	Infrared	Infrared		Infrared	Infrared	Infrared	High frequency	High frequency	TP-High frequency	Infrared
Switching zones	1.416	1.416	280	120	448		4.800	4.800	168	-	-	-	5200
Sensor detections	Movement	Movement	Movement	Movement	Movement		Movement, Presence	Movement, Presence	Movement, Presence	Movement, Presence	Movement, Presence	True Presence®, movement, presence	Movement, Presence
Further measured values	Light	Light	Light	Light	Light		Light	Light	Light	Light	Light	Light	Light
Lighting groups	1	1	1	1	1		2	3	1	4 + Multizone	4 + Multizone	4 + Multizone	4 + Multizone
Control output	Broadcast 1 x 30 TLN		Addressable/ Broadcast 64 TLN	Addressable/ Broadcast 64 TLN	Broadcast 1x20 TLN	Addressable/ Broadcast 64 TLN	Addressable/ Broadcast 64 TLN	Addressable/ Broadcast 64 TLN	Addressable/ Broadcast 64 TLN				
DALI devices	max. 30		max. 64	max. 64	max. 20	max. 64	max. 64	max. 64	max. 64				
Additional potential-free contact	No	No	No	No	No		Yes	Yes	No	No	No	No	No
Range limitation, constant lightcontrol, basic and main light	-	-	-	-	-		-	-	-	-	-	-	-
Push-button interface	0	0	0	0	0		3	4	1	1	1	1	1
Networking via	Cables	Cables	Cables	Cables	Cables		Cables	Cables	Bluetooth	Bluetooth or cable	Bluetooth or cable	Bluetooth or cable	Bluetooth or cable
Other participants	DALI-2 IPDs		DALI-2 IPDs	DALI-2 IPDs	-	DALI-2 IPD/ BT IPD	DALI-2 IPD/ BT IPD	DALI-2 IPD/ BT IPD	DALI-2 IPD/ BT IPD				
Settings via	Potis, Smart Remote + App		Potis, Smart Remote + App	Potis, Smart Remote + App	STEINEL Connect App	STEINEL Connect App	STEINEL Connect App	STEINEL Connect App	STEINEL Connect App				
Radial range	Ø8m	Ø14m	12x6m	30x4m	3/4m		8x8m	8x8m	4x4m	Ø12m	25x3m	Ø15m	9x9m
Tangential range	Ø40m	Ø36m	23x6m	30x4m	6/20m		20x20m	20x20m	6x6m	Ø12m	25x3m	Ø15m	24x24m
Mounting type	Ceiling	Ceiling	Ceiling	Ceiling	Wall		Ceiling	Ceiling	Ceiling	Ceiling	Ceiling	Ceiling	Ceiling
Mounting height	2.50 - 4.00 m	4.00 - 14.00 m	2.50 - 5.00 m	4.00 - 16.00 m	1.80 - 2.50 m		2.50 - 10.00 m	2.50 - 10.00 m	2.00 - 5.00 m	2.50 - 4.00 m	2.00 - 4.00 m	2.00 - 12.00 m	2.50 - 10.00 m
Protection class	IP20 (IP54 AP)	IP54	IP20 (IP54 AP)	IP54	IP20 (IP54 AP)		IP20	IP20	IP20	IP20 (IP54 AP)	IP20 (IP54 AP)	IP20 (IP54 AP)	IP20 (IP54 AP)
Order details													
EAN AP round	4007841 033507		4007841 033859							4007841 067137			
EAN AP angular	4007841 010560	4007841 010577	4007841 010584	4007841 010591	4007841 010553		4007841 088835	4007841 035273		4007841 086589	4007841 086299	4007841 085582	4007841 064365
EAN UP round	4007841 033521		4007841 033873							4007841 067151			
EAN UP angular	4007841 033514		4007841 033866		4007841 055738					4007841 086596	4007841 086305	4007841 085599	4007841 064358
EAN EN round	4007841 080631		4007841 080655							4007841 067144			
EAN EN square	4007841 080624		4007841 080648				4007841 088828	4007841 035204					

STEINEL Input Devices - the best information providers for DALI-2.

The input devices (IPD) in DALI-2 can be used to realise a wide range of control and automation-tasks. They detect movement and brightness values and enable intelligent and adaptable lighting control. In this way, the lighting can be controlled according to presence and daylight or dimmed individually. This dynamic control increases comfort, optimises energy consumption and makes it easier to adapt to flexible room concepts.

Properties of the IPDs:

- Pure information providers that record and forward system changes
- Direct wiring via the DALI bus without additional cables
- True Presence IPD and True Presence Multi are operated with 230 V
- Only send event messages and react unsolicited to environmental changes or user input

Communication between APC and IPD



Bluetooth® MESH

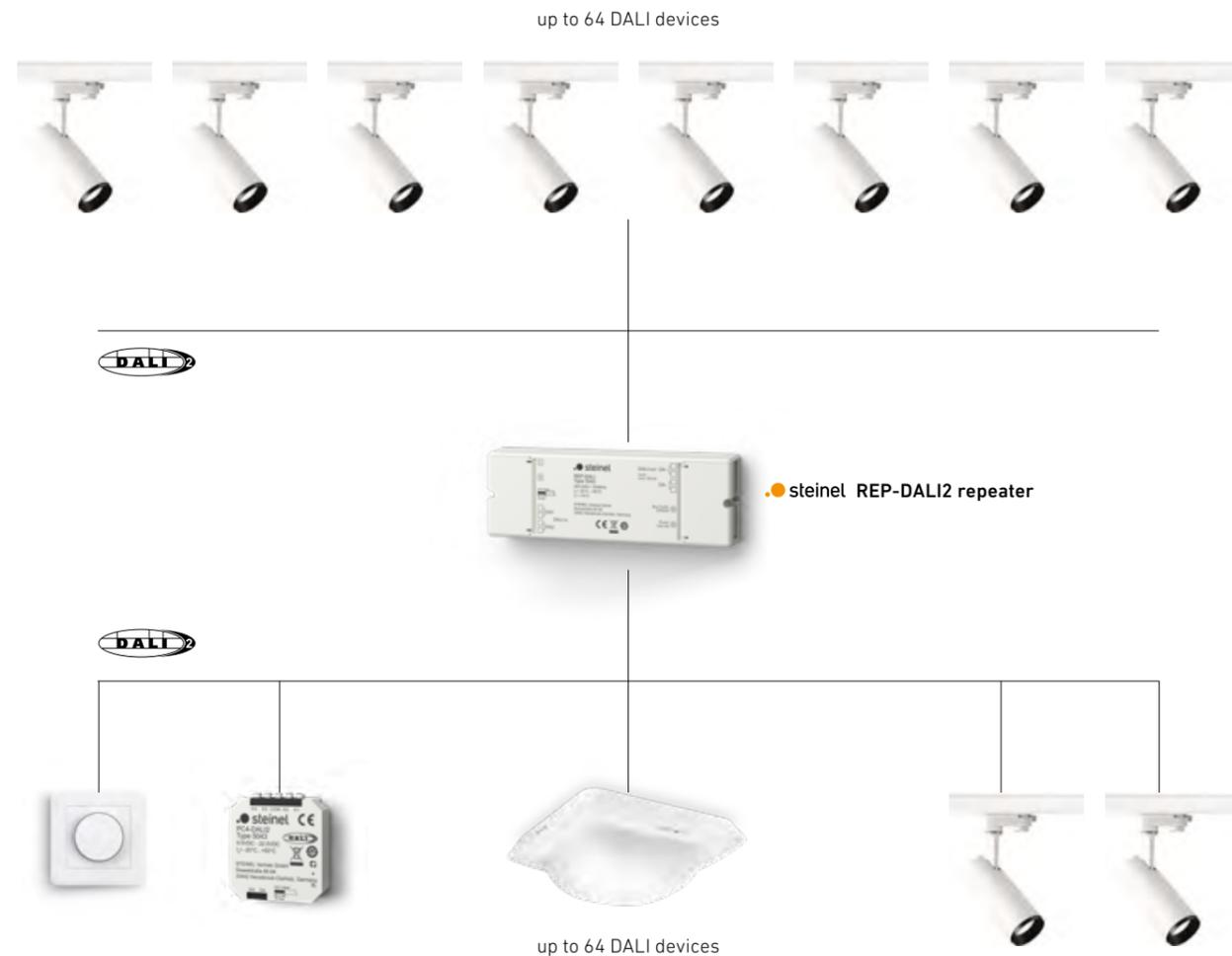
Input Devices - Sensors in comparison.



	IS 3360	IS 3360 MX Highbay	IS 345	IS 345 MX Highbay	IS 3180		PD-8 ECO	PD-24 ECO	HF 360-2	Hallway	True Presence	IR Quattro HD-2
Technology	Infrared	Infrared	Infrared	Infrared	Infrared		Infrared	Infrared	High frequency	High frequency	High frequency	Infrared
Switching zones	1.416	1.416	280	120	448		492	1436	-	-	-	5200
Sensor detections	Movement	Movement	Movement	Movement	Movement		Movement, Presence	Movement, Presence	Movement, Presence	Movement, Presence	Movement, Presence	Movement, Presence
Further measured values									Temperature, Humidity	Temperature, Humidity	Temperature, Humidity	Temperature, Humidity
DALI participant	max. 3		max. 6	max. 6	max. 11	max. 13		max. 10				
Power consumption	max. 6 mA		max. 12 mA	max. 12 mA	max. 21 mA	max. 25 mA	max. 2 mA	max. 20 mA				
Networking via	Cable (DALI bus)		Cable (DALI bus)	Cable (DALI bus)	Bluetooth or cable	Bluetooth or cable	Bluetooth or cable	Bluetooth or cable				
Settings via	Potis, Smart Remote remote-operation + app		Potis, Smart Remote remote-operation + app	Potis, Smart Remote remote-operation + app	STEINEL Connect App	STEINEL Connect App	STEINEL Connect App	STEINEL Connect App				
Radial range	Ø 8 m	Ø 14 m	12 x 6 m	30 x 4 m	3 / 4 m		Ø 4,5 m	Ø 5,5 m	Ø 12 m	25 x 3 m	Ø 15 m	9 x 9 m
Tangential range	Ø 40 m	Ø 36 m	23 x 6 m	30 x 4 m	6 / 20 m		Ø 8 m	Ø 24 m	Ø 12 m	25 x 3 m	Ø 15 m	24 x 24 m
Range limitation	mechanical	mechanical	mechanical	mechanical	mechanical		mechanical	mechanical	electronic	electronic	electronic	electronic
Mounting type	Ceiling	Ceiling	Ceiling	Ceiling	Wall		Ceiling	Ceiling	Ceiling	Ceiling	Ceiling	Ceiling
Mounting height	2.50 - 4.00 m	4.00 - 14.00 m	2.50 - 5.00 m	4.00 - 16.00 m	1.80 - 2.50 m		2.00 - 4.00 m	2.00 - 4.00 m	2.50 - 4.00 m	2.00 - 4.00 m	2.00 - 12.00 m	2.50 - 10.00 m
Ceiling cut-out	Ø 68 mm		Ø 68 mm		Ø 68 mm		Ø 68 mm	Ø 68 mm	Ø 68 mm	Ø 68 mm	Ø 68 mm	Ø 68 mm
Protection class IP	IP20 (IP54 AP)	IP54	IP20 (IP54 AP)	IP54	IP20 (IP54 AP)		IP20 (IP54 AP)	IP20 (IP54 AP)	IP20 (IP54 AP)	IP20 (IP54 AP)	IP20 (IP54 AP)	IP20 (IP54 AP)
Order details												
EAN AP round	4007841 057251		4007841 057299				4007841 088156	4007841 088231	4007841 086602	4007841 086367	4007841 064501	4007841 064389
EAN AP angular	4007841 057237	4007841 057374		4007841 057398	4007841 057350							
EAN UP round	4007841 057268		4007841 057305		4007841 086619		4007841 088194	4007841 088279	4007841 086398	4007841 064495	4007841 064372	
EAN UP angular	4007841 057244			4007841 057367								
EAN EN round							4007841 088163	4007841 088255				

Smart extensions for a high-performance DALI-2 network

The STEINEL DALI-2 system components make the DALI network even more powerful and flexible. The big advantage: everything from a single source - for seamless integration and perfect interaction with the best sensors on the market. The extended range of functions of DALI-2 opens up completely new possibilities in building and lighting control. By integrating push-buttons, dimmers and relays, customised lighting scenarios can be implemented even more precisely.



Product overview

Input devices



Push-button coupler PC4-DALI2

- Integration of up to four standard commercial buttons
- Installation in flush-mounted box
- Functions freely programmable via app

EAN [4007841 082123](#)



Rotary dimmer RDIM-DALI2

- Intuitive switching and dimming of the lighting
- IPD for connection to DALI-2 APC
- Adjustable dimming speed

EAN [4007841 082130](#)

Output devices



Relay REL5A-DALI2

- Integration of circuits in the DALI control system, e.g. panel light
- Installation in flush-mounted box

EAN [4007841 082109](#)

System extensions



REP-DALI2 repeater

- Additional power supply of the DALI line to fully utilise the number of devices
- Bidirectional communication for installation of further DALI-2 IPDs

EAN [4007841 082116](#)



Power supply PS-BRC 64

- Extension of the DALI line with additional devices
- Up to 64 additional participants possible
- Unidirectional broadcast control from repeater possible

EAN [4007841 084981](#)

Compatibility table

	 3000 series (DALI APC)	 IR Quattro DALI plus/duo	 LuxMaster Serie (DALI APC)	 IR Micro Office (DALI APC)	 LiveLink
DALI push-button coupler	-	-	✓	-	✓
DALI relay	✓	✓	✓	✓	✓
Power supply PS-BRC 64	✓	✓	✓	✓	✓
DALI repeater	✓	✓	✓	✓	✓
DALI dimmer	✓	-	✓	-	-

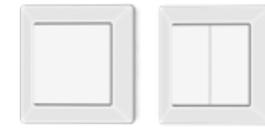
Wireless communication – perfect for renovations and new buildings.

Bus functionality during renovation - without any new cables. This is now possible with the STEINEL Bluetooth components. The latest mesh version of the tried-and-tested wireless technology sets completely new standards and can be used wherever simple modernisation needs to be implemented quickly and cleanly.



Product overview

Input devices



PB2 / PB4 radio button

- can be used anywhere, no power supply and no battery change necessary
- Individual button assignment with the Steinel Connect app
- Call up lighting and Bluetooth scenes, switch individual lighting groups or dim lights
- Screw and adhesive mounting possible

EAN [4007841 084653](#) | PB 2
EAN [4007841 084660](#) | PB 4



Rotary dimmer RDIM-Bluetooth

- Intuitive switching and dimming of the lighting
- Dimming speed adjustable

EAN [40078410 67328](#)



Push-button coupler PC4-Bluetooth

- Integration of up to four standard commercial buttons
- Installation in flush-mounted box
- Functions freely programmable via app

EAN [4007841 067342](#)

Output devices



Relay REL5A-Bluetooth

- Integration of switched loads into the Bluetooth Mesh system
- Installation in flush-mounted box

EAN [4007841 067335](#)



Gateway Bluetooth-DALI-2

- Integrating DALI luminaires into the Bluetooth Mesh system
- No cable required between sensor and DALI luminaire
- Broadcast up to 64 luminaires

EAN [4007841 067311](#)

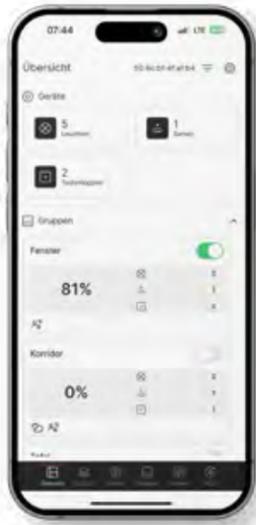
Compatibility table

	 3000 series (DALI APC)	 IR Quattro DALI plus/duo	 LuxMaster Serie (DALI APC)	 IR Micro Office (DALI APC)	 LiveLink
Bluetooth piezo push-button	–	–	✓	✓	–
Bluetooth push-button coupler	–	–	✓	✓	–
Bluetooth relay	–	–	✓	✓	–
Gateway Bluetooth-DALI-2	–	–	✓	✓	–
Bluetooth dimmer	–	–	✓	✓	–
Bluetooth IP Gateway	–	–	✓	✓	–

LiveLink - flexible multi-room solution.

LiveLink is a lightingmanagement system that offers building managers across all sectors enormous opportunities - for example to reduce costs, increase lighting quality, employee-satisfaction and achieve their own sustainability goals. LiveLink was developed in cooperation with TRILUX, combining the lighting expertise of TRILUX and the sensorexpertise of STEINEL. The result is a powerful, intelligent system for modern lighting management.

And with the new STEINEL LiveLink app, installation and operation are easier and safer than ever before. The result: genuine plug-and-play lighting management at the click of a button.



LiveLink LAN DR

- DALI-2 APC max. 64 participants
- Commissioning via WiFi and app
- Connection to higher-level systems via MQTT

EAN [4007841 055455](#)



LiveLink WiFi control unit

- DALI-2 APC max. 64 participants
- Commissioning via Wi-Fi and app

EAN [4007841013653](#)

Maxipainter comfort. Minipainter Installationseffort.

LiveLink is ready for operation and fully functional from the very first start. All system participants are recognised automatically and can be easily adapted to the individual project via the user-friendly STEINEL LiveLink app. Practical: The system can be configured by the installer in any order. The functionality is always retained.



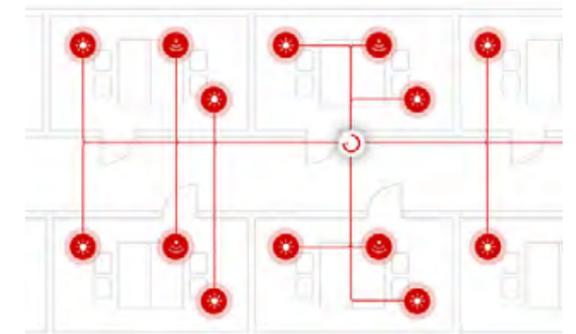
More flexibility. More lightquality.

Intelligent lighting management increases the quality of lightand enhances visual comfort. LiveLink offers numerous preset features such as Human Centric Lighting and functions for daylightdependent control and presence control. In addition, lighting scenes can be flexibly programmed and called up at the touch of a button, optionally via push-button or app. This means: always exactly the right light for the various tasks and individual requirements.



Multiroom. One controller, many options.

With the STEINEL LiveLink app, lights can be individually grouped and controlled. The newly integrated multi-room function enables both individual control of individual rooms and centralised, cross-room control. This optimises the utilisation of a DALI-Line and simplifies commissioning, as only one controller is required.



Perfect lighting control for any environment.

Whether an individual office, meeting room, open-plan office, classroom, warehouse, lobby, corridor or WC - the DALI-2 sensors from STEINEL ensure intelligent and efficient lighting everywhere. Thanks to the simple installation and convenient setting via app, lighting systems can be flexibly adapted to any room situation. The result is always the optimum combination of convenience, energy efficiency and smart technology.

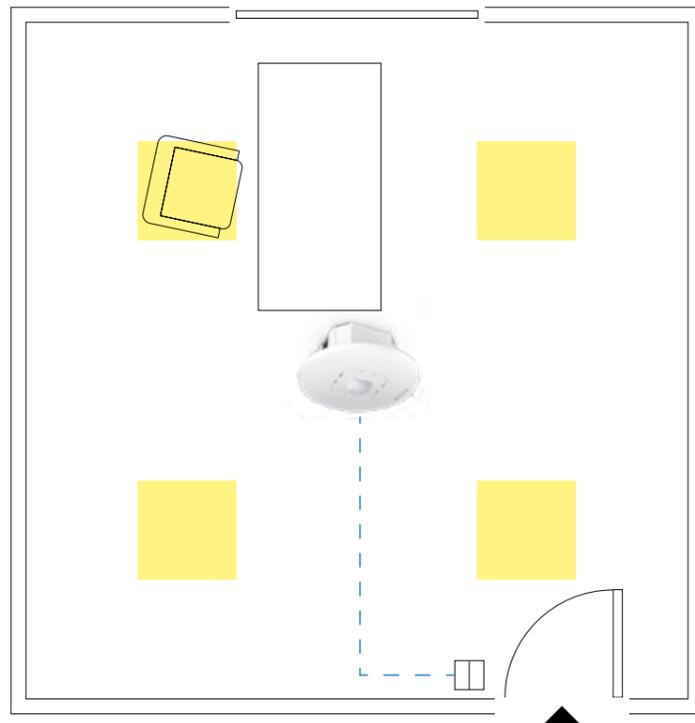
On the following pages you will find practical examples for the various areas of application - let yourself be inspired!

Single office

- Manually overridable lighting control with just one sensor
- Control of a lighting group via broadcast using constant light control or switch operation
- An additional IR Micro Office can be used as a further participant, which only receives a 230 V power supply and has no DALI connection
- Push-button integration either wired or wireless

Full and semi-automatic operating modes

In fully automatic mode, the lighting switches ON and OFF automatically depending on brightness and presence. The lighting can be switched manually at any time. This temporarily interrupts the automatic switching function. In semi-automatic mode, the lighting only switches off automatically. Switching on is manual; light must be requested using a button and remains switched on for the set follow-up time.



IR Micro Office 6m

- Perfect for small rooms
- Light management, e.g. Constantlightcontrol, dimming, semi-/fully automatic
- Broadcast control of up to 20 dimmable DALI luminaires
- Cover caps for detection-boundary simply for snapping into place included
- Commissioning and setting via STEINEL Connect app



	Set up and network via Bluetooth Mesh	Push-button input for manual override	Presence detection with 168 switching zones
	Suitable for mounting-height up to 5.00 m	Constant light control for energysaving, perfect working light	Further technical information online
Order details IR Micro Office 6m DALI-2 APC Flush-mounted 4007841 067151 IR Micro Office 6m DALI-2 APC Recessed ceiling 4007841 067144 IR Micro Office 6m DALI-2 APC Surface-mounted 4007841 067137			

Optional system components

All system components from p. 18

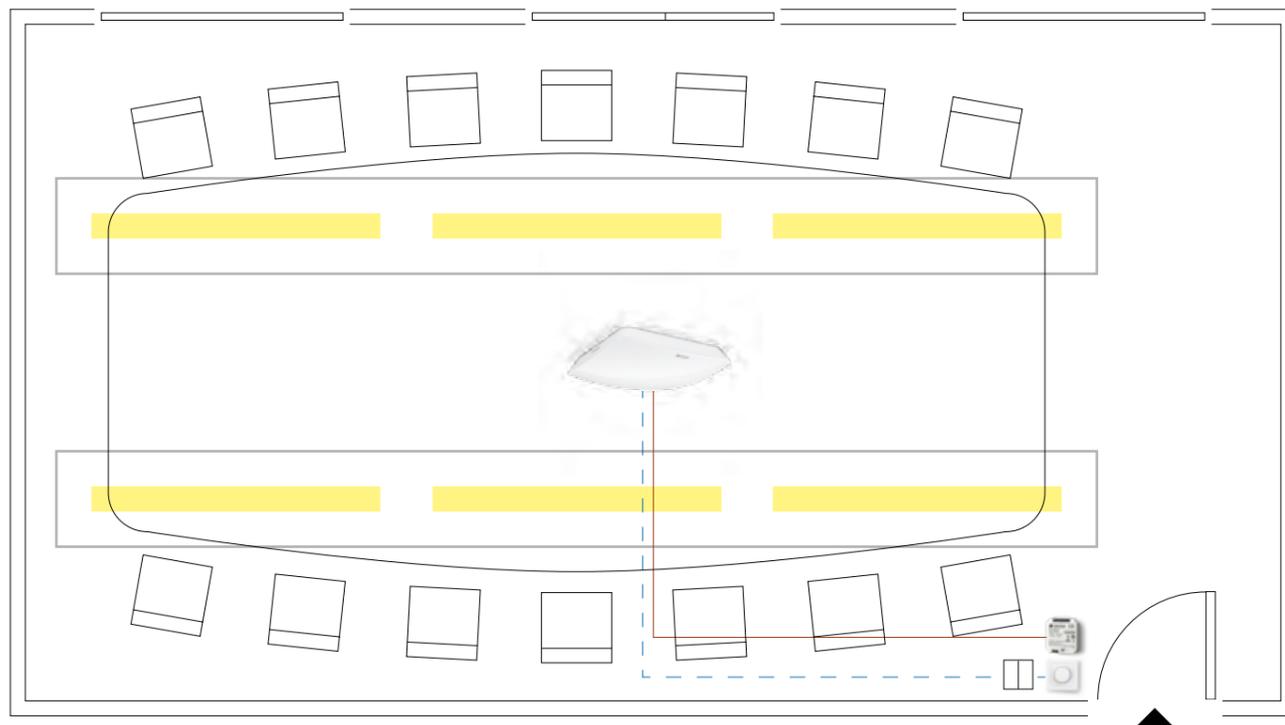
Wireless pushbutton PB2-Bluetooth EAN 4007841 084653		Wireless pushbutton PB4-Bluetooth EAN 4007841 084660		Bluetooth push-button coupler EAN 4007841 082123	
---	--	---	--	---	--

Meeting room

- Meeting room with two groups of luminaires
- Definition of individual light scenes, e.g. presentation mode, which can be called up using the push-button
- Basic light optionally adjustable
- Push-buttons and rotary dimmers can be networked via DALI and Bluetooth
- DALI2 IPD or Bluetooth IPD sensors can be connected as additional participants

Basic lighting

Basic lighting enables illumination with 1% – 100% of the light output. After the follow-up time has elapsed, the light is dimmed to the light output specified for basic lighting. The app can be used to specify how long the basic lighting should remain active. The maximum duration is 60 minutes. Alternatively, the basic brightness can also be switched on based on brightness. Time-based: After the follow-up time for the main light has elapsed, the basic light switches on for the set duration. Brightness-based: After the follow-up time for the main light has elapsed, the basic light switches on if the ambient brightness is below the switch-on threshold. If day mode is set, the basic light remains on permanently.



— Luminaire group

LuxMaster True Presence®

- The first real presence detector recognises human presence through micro-movements
- 64 sqm True Presence® detection, 177 sqm Presence and motion detection
- Precisely digitally adjustable Detection area
- Push-button input on the sensor
- Commissioning and setting via STEINEL Connect app



	Set up and network via Bluetooth Mesh	Twilight setting	Time-setting
	Suitable for mounting-height up to 12.00 m	True Presence technology for real presence detection	Further technical information online
Order details LuxMaster True Presence® flush-mounted, Bluetooth Mesh 4007841 085599 LuxMaster True Presence® surface-mounted, Bluetooth Mesh 4007841 085582 True Presence® IPD flush-mounted, Bluetooth Mesh..... 4007841 064495 True Presence® IPD surface-mounted, Bluetooth Mesh 4007841 064501			

Optional system components

All system components from p. 18

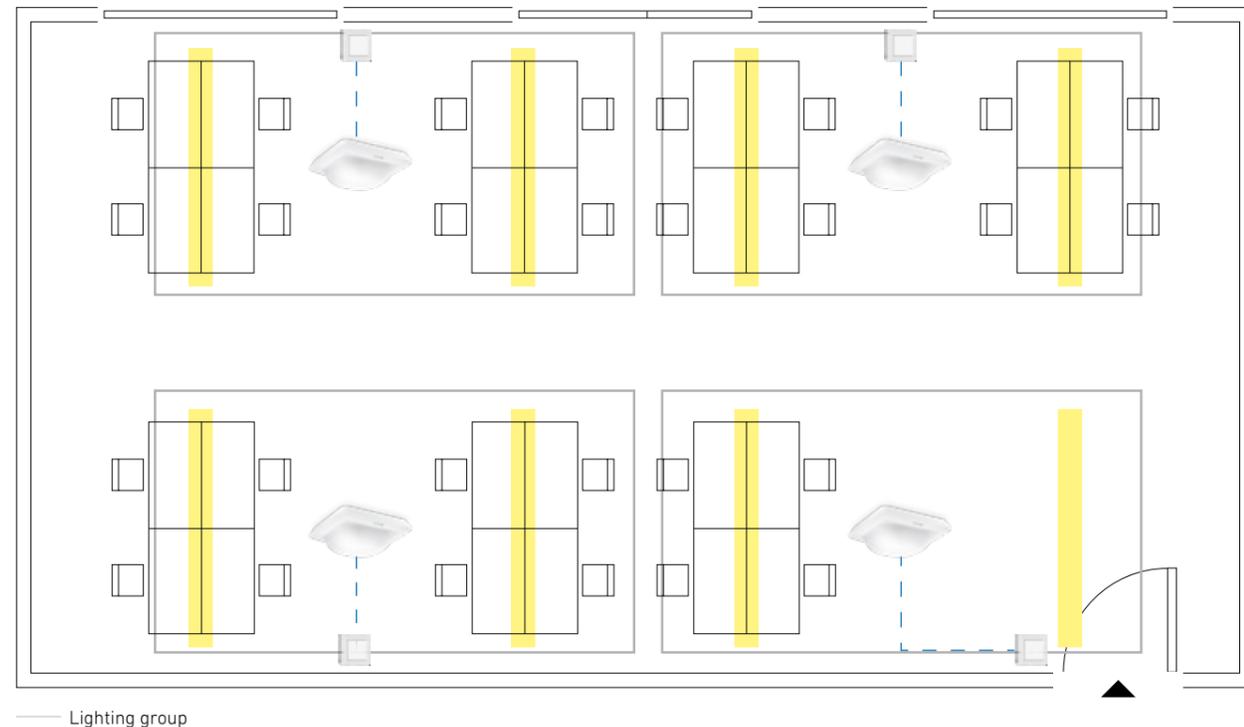
Rotary dimmer RDIM-Bluetooth EAN 4007841 067342		Push-button coupler PC4-DALI2 EAN 4007841 082123	
--	--	---	--

The LuxMaster for open-plan offices.

- 4 sensors for 4 working areas
- Bluetooth networking of the sensors enables a neighbouring group function
- The neighbouring group function increases comfort, as it ensures that the entire room is illuminated by basic lighting
- Integration of Bluetooth buttons for each working area for manual override
- The ambient lighting required by workplace guidelines can be implemented with the neighbouring group function

Constant light control

Ensures a consistent level of brightness. The integrated brightness sensor measures the available daylight and adds artificial light proportionally to achieve the desired brightness level. If the amount of daylight changes, the artificial light is adjusted accordingly.



LuxMaster IR Quattro HD-2 24m



- 5.200 switching zones for the finest detection
- 4 pyro sensors can be individually activated/deactivated
- mechanical range adjustment
- Sensitivity digitally adjustable
- Ideal for open-plan offices and classrooms
- Commissioning and setting via STEINEL Connect app



	Set up and network via Bluetooth Mesh	360° PIR with quadratic detection	Detection area 9 x 9 m Presence
	Suitable for mounting-height up to 10.00 m	electronic adjustment of the sensitivity of the 4 pyro sensors	Further technical information online
Order details LuxMaster IR Quattro HD-2 24m flush-mounted 4007841 064358 LuxMaster IR Quattro HD-2 24m surface-mounted 4007841 064365 IR Quattro HD-2 24m IPD flush-mounted 4007841 064372 IR Quattro HD-2 24m IPD surface-mounted 4007841 064389			

Optional system components

All system components from p. 18

Wireless pushbutton
PB2-Bluetooth
 EAN [4007841 084653](#)

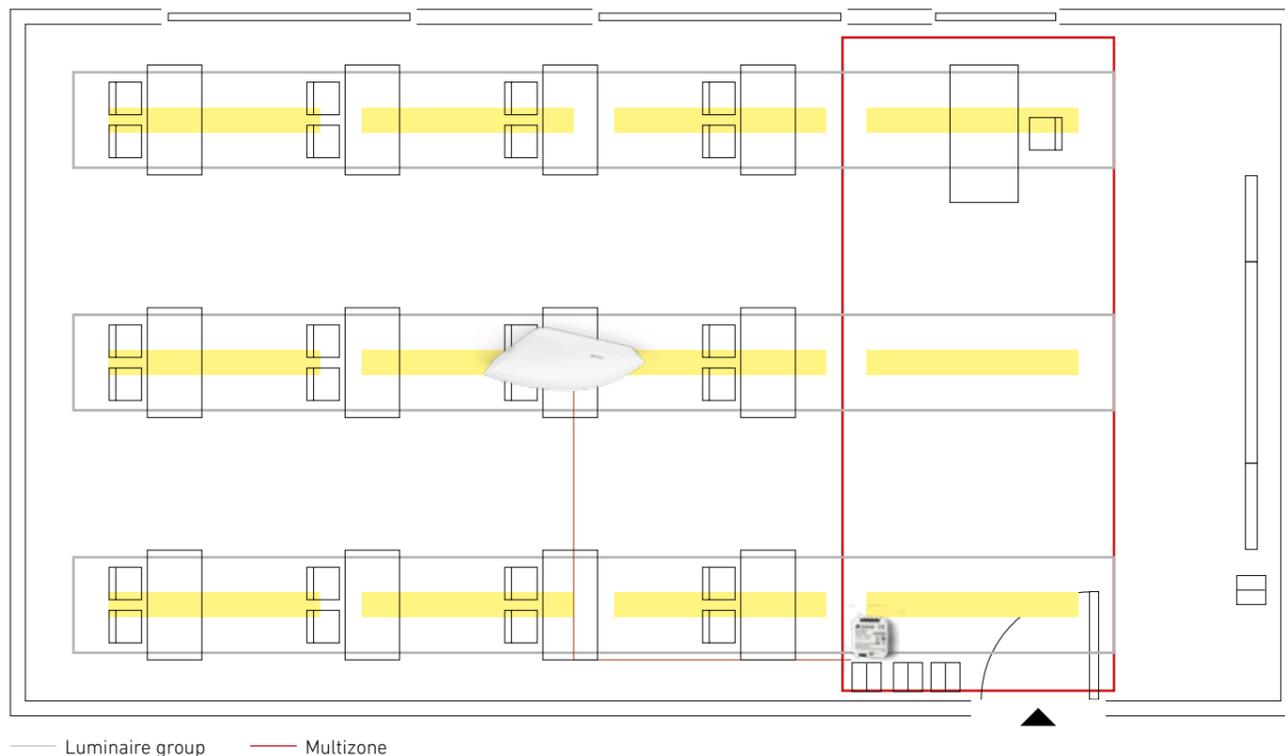


The LuxMaster for the classroom.

- Control of 3 lighting groups and one multi-zone
- The push button on the panel is supplied with 230 V and wired directly to the sensor
- 3 push buttons are integrated via DALI push button couplers
- DALI2 IPD or Bluetooth IPD sensors can be connected as additional participants

Multizone

A multizone set during DALI addressing consists of luminaires from different groups and can be controlled separately via a push button. In the event of an override, all lighting controls are stopped. The luminaires belonging to the multi-zone can be switched or dimmed via a push button. Example simulation of panel lighting.



LuxMaster True Presence®

- The first real presence detector recognises human presence through micro-movements
- 64 sqm True Presence® detection, 177 sqm Presence and motion detection
- Precisely digitally adjustable Detection area
- Push-button input on the sensor
- Commissioning and setting via STEINEL Connect app



	Set up and network via Bluetooth Mesh	Twilight setting	Time-setting
	Suitable for mounting-height up to 12.00 m	True Presence technology for real presence detection	Further technical information online
Order details LuxMaster True Presence® flush-mounted, Bluetooth Mesh 4007841 085599 LuxMaster True Presence® surface-mounted, Bluetooth Mesh 4007841 085582 True Presence® IPD flush-mounted, Bluetooth Mesh..... 4007841 064495 True Presence® IPD surface-mounted, Bluetooth Mesh 4007841 064501			

Optional system components

All system components from p. 18

Push-button coupler PC4-DALI2
EAN [4007841 082123](#)

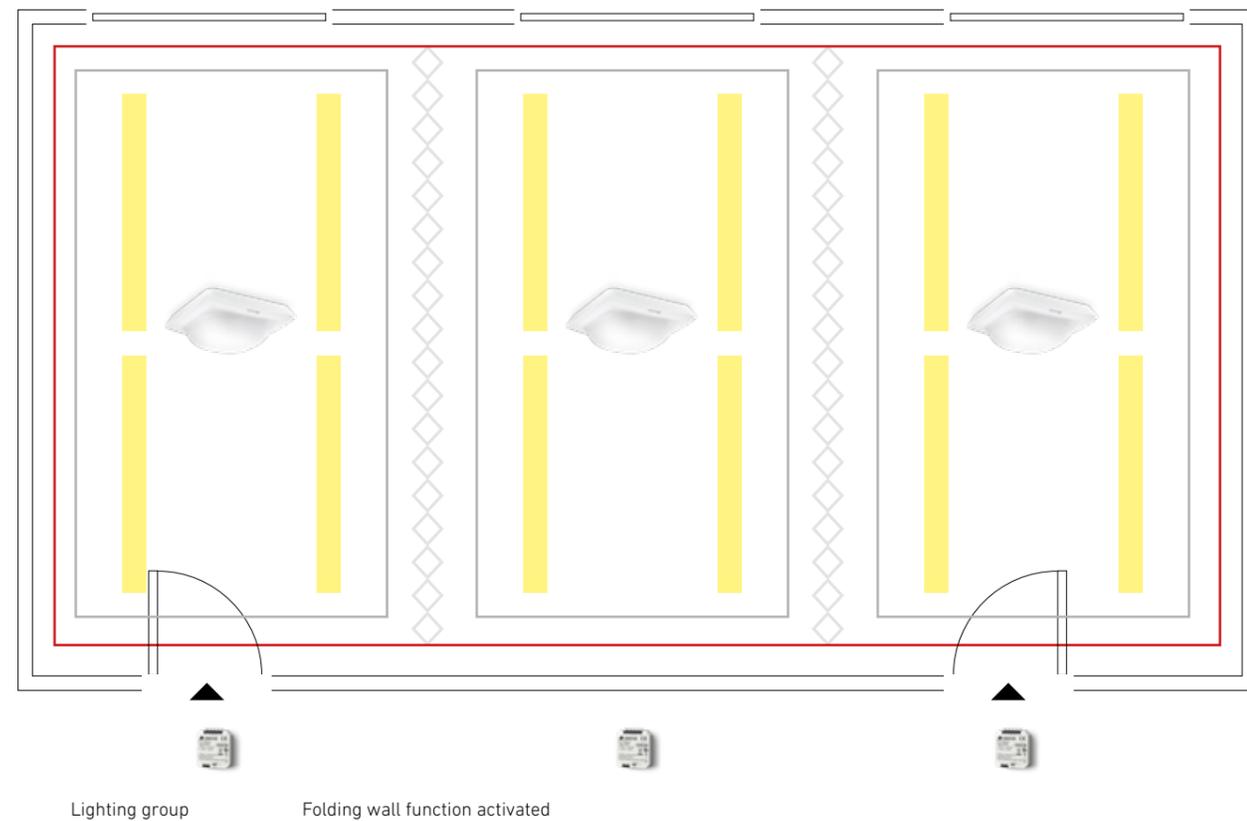


The LuxMaster for the gymnasium.

- Control of 3 lighting groups, each with one sensor
- Up to 4 push buttons can be connected via Bluetooth push button coupler
- A limit switch informs the sensors whether the folding wall is open or closed
- To implement the folding wall function, the sensors connect via Bluetooth Mesh for the duration of use and act in unison

Folding wall function

Activating this function allows two separately operating sensors to work together as one. It is possible to divide the area into up to three different zones. Example: triple gymnasium with partition walls. This function can be extended up to four sensors.



LuxMaster IR Quattro HD-2 24m



- 5.200 switching zones for the finest detection
- 4 pyro sensors can be individually activated/deactivated
- mechanical range adjustment
- Sensitivity digitally adjustable
- Ideal for open-plan offices and classrooms
- Commissioning and setting via STEINEL Connect app



	<p>Set up and network via Bluetooth Mesh</p>	<p>360° PIR with quadratic detection</p>	<p>Detection area 9 x 9m Presence</p>
	<p>Suitable for mounting-height up to 10.00 m</p>	<p>electronic adjustment of the sensitivity of the 4 pyro sensors</p>	<p>Further technical information online</p>
<p>Order details</p> <p>LuxMaster IR Quattro HD-2 24m flush-mounted 4007841 064358</p> <p>LuxMaster IR Quattro HD-2 24m surface-mounted 4007841 064365</p> <p>IR Quattro HD-2 24m IPD flush-mounted 4007841 064372</p> <p>IR Quattro HD-2 24m IPD surface-mounted 4007841 064389</p>			

Optional system components

All system components from p. 18

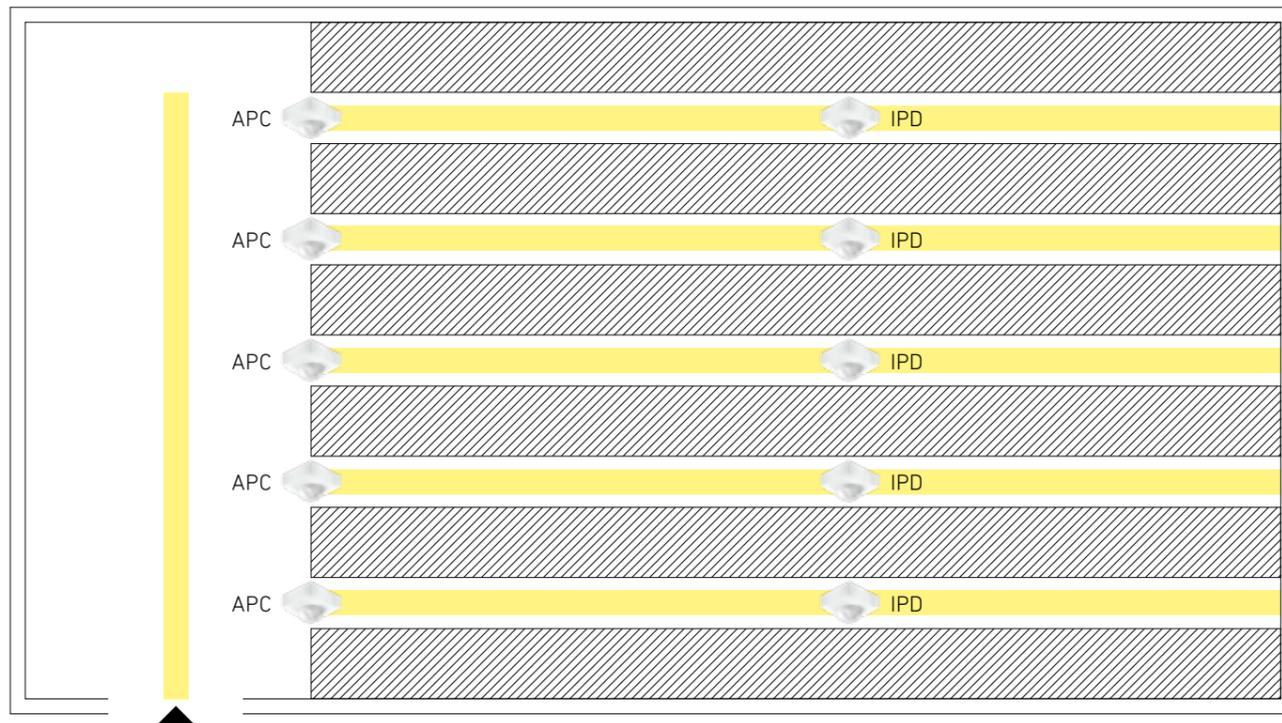
<p>Bluetooth push-button coupler EAN 4007841 082123</p> 	<p>Push-button coupler PC4-DALI2 EAN 4007841 082123</p> 
---	---

High-bay warehouse

- Light control via an APC sensor on the left side of the corridor, connected to another IPD sensor on the right side to extend the range
- Sensor can be set directly on the gear without incorrect switching due to cover plates
- No additional wire required for networking

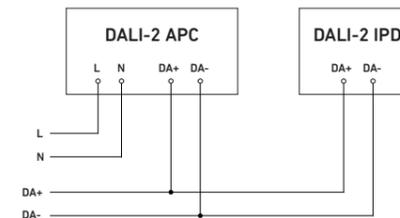
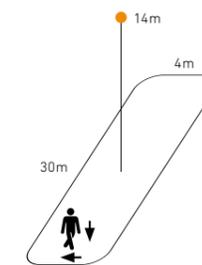
Light sensor operation with a LuxMaster

This operating mode is purely constant light control. Motion detection is suspended. In sensitive work areas, daylight can thus be utilised despite continuous illumination.



IS 345 MX Highbay

- Infrared sensor
- For installation heights up to 16 m
- Detection area 30 m x 4 m
- Commissioning and setting via STEINEL Smart Remote App



Setting via Smart Remote	Infrared sensor 360°	Detection area 30x4 m
Suitable for mounting-height up to 16.00 m	Incl. cover switches for detection limitation	Further technical information online

Order details
 IS 345 MX Highbay APC surface-mounted..... [4007841 010591](#)
 IS 345 MX Highbay IPD surface-mounted..... [4007841 057398](#)

Optional system components

All system components from p. 18

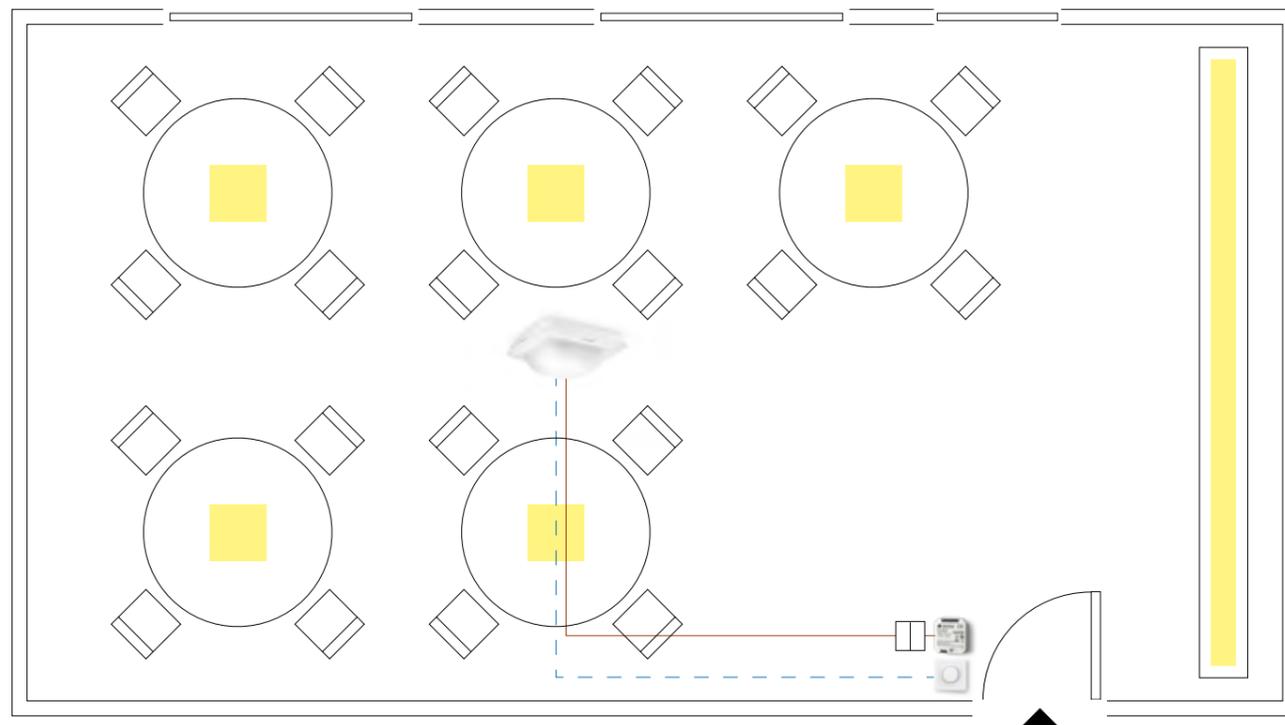
<p>REP-DALI2 repeater EAN 4007841 082116</p>	<p>Power supply PS-BRC 64 EAN 4007841 084981</p>
---	---

Breakfast room

- Control of two lighting groups, dining area and buffet
- Setting different light scenes, such as the welcome scene with ambient lighting or cleaning lighting
- Push-buttons and rotary dimmers can be integrated via DALI as well as via Bluetooth
- DALI2 IPD or Bluetooth IPD sensors can be connected as slave sensors

Offset

To compensate for spatial irregularities in lighting conditions, an offset between the individual DALI groups can be set when constant light control is activated. The offset always refers to the first DALI group.



LuxMaster IR Quattro HD-2 24m



- 5.200 switching zones for the finest detection
- 4 pyro sensors can be individually activated/deactivated
- mechanical range adjustment
- Sensitivity digitally adjustable
- Ideal for open-plan offices and classrooms
- Commissioning and setting via STEINEL Connect app



	<p>Bluetooth MESH</p> <p>Set up and network via Bluetooth Mesh</p>	<p>360° PIR with quadratic detection</p>	<p>Detection area 9 x 9 m Presence</p>
	<p>Suitable for mounting-height up to 10.00 m</p>	<p>electronic adjustment of the sensitivity of the 4 pyro sensors</p>	<p>Further technical information online</p>
<p>Order details</p> <p>LuxMaster IR Quattro HD-2 24m flush-mounted 4007841 064358</p> <p>LuxMaster IR Quattro HD-2 24m surface-mounted 4007841 064365</p> <p>IR Quattro HD-2 24m IPD flush-mounted 4007841 064372</p> <p>IR Quattro HD-2 24m IPD surface-mounted 4007841 064389</p>			

Optional system components

All system components from p. 18

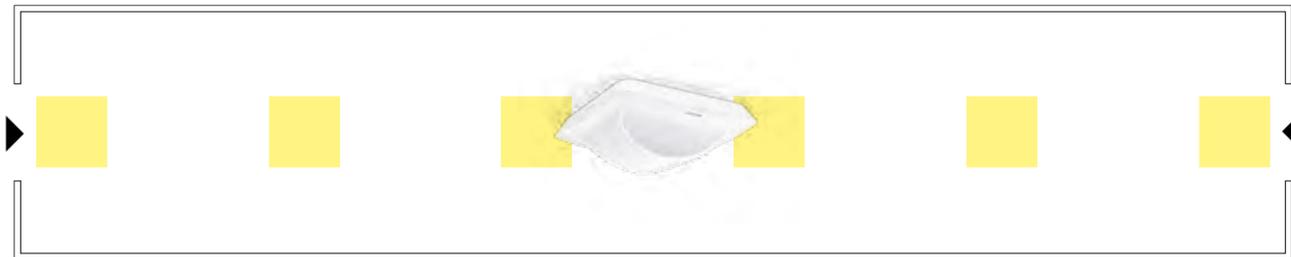
<p>Rotary dimmer RDIM-Bluetooth EAN 4007841 067328</p>	<p>Push-button coupler PC4-DALI2 EAN 4007841 082123</p>
--	---

The LuxMaster for the hallway.

- STEINEL DALI-2 solutions are perfect for installation in necessary corridors and stairwells (escape routes).
- Lights can have different circuits.
- For particularly long corridors, sensors from the DALI-2 IPD or BT IPD interface can be integrated.
- Integration of push buttons via Bluetooth is possible.

Timetables

With the Scheduler, schedules can be easily stored via the app. This allows different scenes and settings to be defined depending on the day and time. This is useful if the lighting control needs to be adjusted to opening hours – working days have different requirements to weekends and public holidays.



LuxMaster Hallway

- Recognises the walking directions of people (arriving and leaving)
- Perfect radial detection up to 25 m corridor length
- Range can be set separately in two directions
- Commissioning and setting via STEINEL Smart Remote App



	<p>Bluetooth MESH</p> <p>Set up and network via Bluetooth Mesh</p>	<p>360° high-frequency gear sensor</p>	<p>Detection area 25x3 m radial</p>
	<p>Suitable for mounting-height up to 4.00 m</p>	<p>Temperature and humidity measurement</p>	<p>Further technical information online</p>
<p>Order details</p> <p>LuxMaster Hallway flush-mounted, Bluetooth Mesh..... 4007841 086299</p> <p>LuxMaster Hallway surface-mounted, Bluetooth Mesh..... 4007841 058012</p> <p>Hallway IPD flush-mounted, Bluetooth Mesh..... 4007841 086398</p> <p>Hallway IPD surface-mounted, Bluetooth Mesh 4007841 086367</p>			

Optional system components

All system components from p. 18

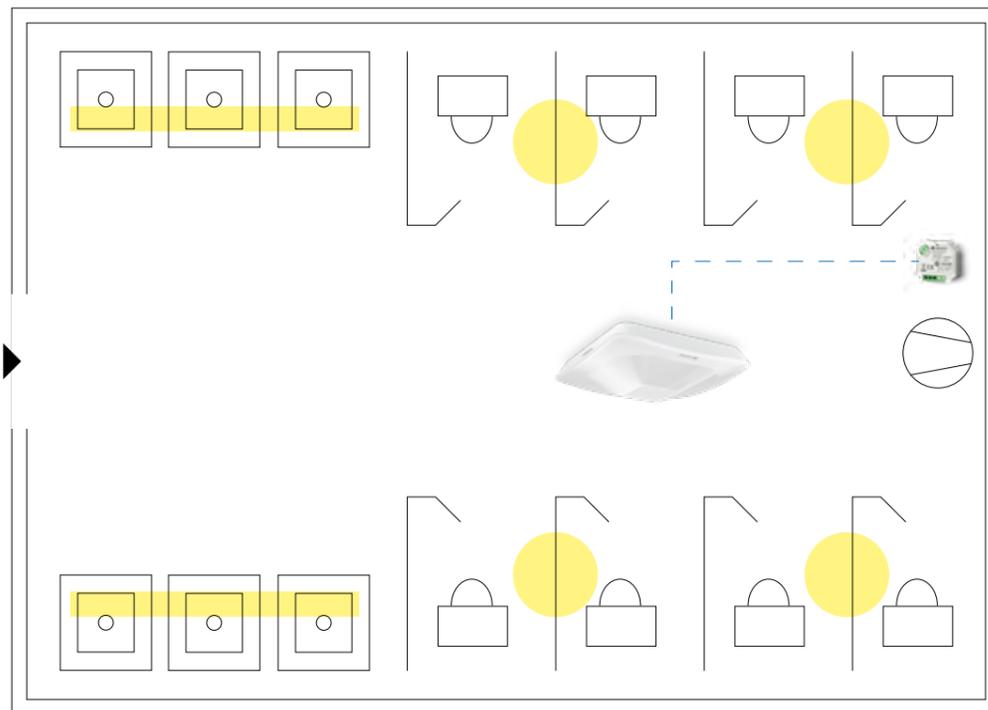
<p>Wireless pushbutton PB2-Bluetooth EAN 4007841 084653</p>	<p>Push-button coupler PC4-Bluetooth EAN 4007841 067342</p>
--	--

The LuxMaster for the toilet.

- Control of a luminaire group with the HF 360-2
- For safety reasons, a basic light with a second follow-up time is switched on before switching off
- Switching of a fan via DALI or Bluetooth relay possible

Neighbour function

The neighbour function assigns neighbouring groups to the active sensor group. The group responds to switch-on signals from the assigned neighbouring group and switches to the neighbouring group light according to the settings. The entire LuxMaster with all its DALI groups is seen as one neighbour, regardless of how many DALI groups are created. This can be set individually, independently of the main or basic light.



LuxMaster HF 360-2

- Ideal for use in stairwells, WCs and adjoining rooms
- High-frequency technology detects through lightweight walls
- Digitally adjustable detection
- Commissioning and setting via STEINEL Smart Remote App



	<p>Set up and network via Bluetooth Mesh</p>	<p>360° high-frequency sensor</p>	<p>max. Ø 12 m Range</p>
	<p>Suitable for mounting-height up to 4.00 m</p>	<p>Electronic sensitivity setting</p>	<p>Further technical information online</p>
<p>Order details</p> <p>LuxMaster HF 360-2 flush-mounted, Bluetooth Mesh 4007841 086596</p> <p>LuxMaster HF 360-2 surface-mounted, Bluetooth Mesh..... 4007841 086589</p> <p>HF 360-2 IPD flush-mounted, Bluetooth Mesh 4007841 086619</p> <p>HF 360-2 IPD surface-mounted, Bluetooth Mesh..... 4007841 086602</p>			

Optional system components

All system components from p. 18

<p>Relay REL5A-DALI2 EAN 4007841 082109</p>	<p>Relay REL5A-Bluetooth EAN 4007841 067335</p>
---	---

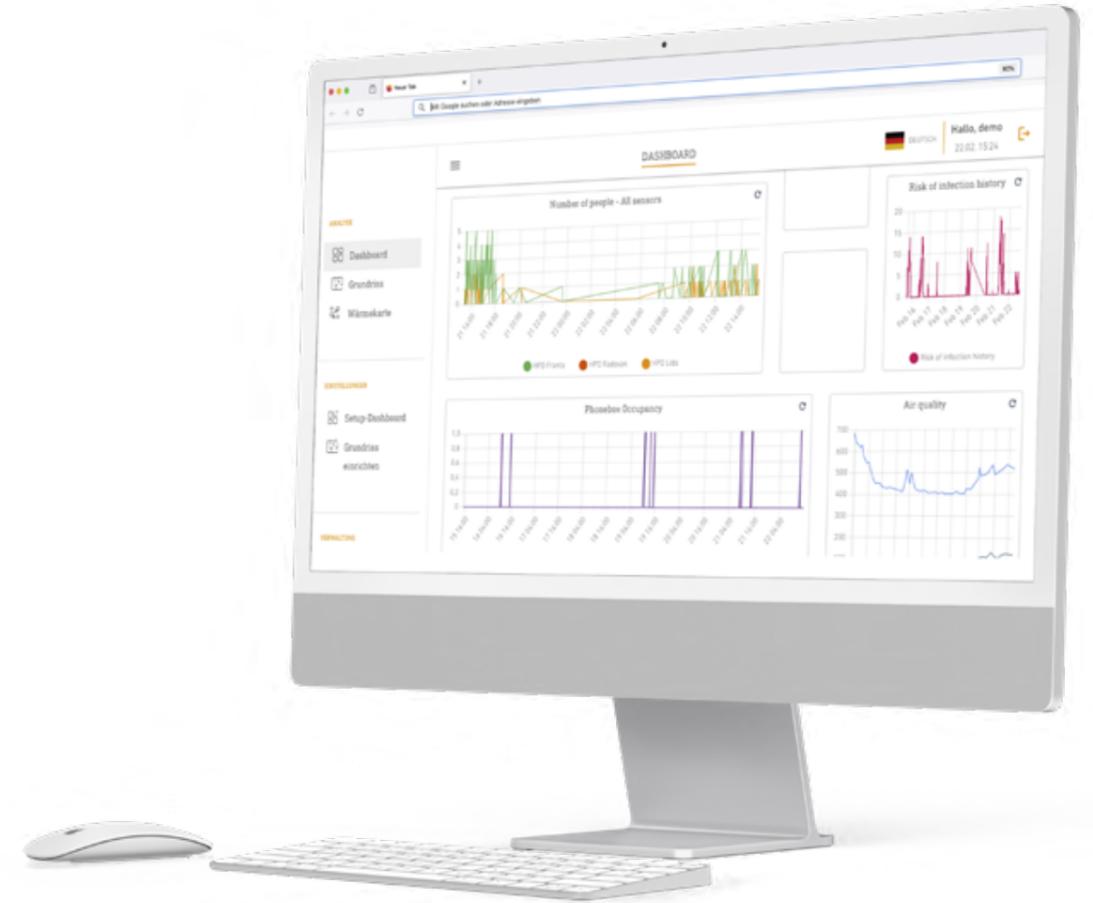
Talks to everyone and everything.

The DALI-2 sensors from STEINEL are compatible with a wide range of building management systems (BMS) such as WAGO, Beckhoff and LiveLink. This openness enables seamless integration into existing control systems and offers maximum flexibility when planning and implementing modern lighting solutions.

Thanks to our powerful gateways, KNX systems can also be connected and a wireless connection established via Bluetooth Mesh. This opens up limitless possibilities for intelligent, networked and future-proof lighting control.

Far beyond light.

With our innovative STEINEL IPD sensors, we go far beyond the conventional functions for light and presence detection. With freely programmable control units, additional applications can be realised that make buildings smarter and more sustainable, while at the same time noticeably increasing comfort. For example, they enable the automatic control of heating, ventilation and air conditioning, the opening and closing of certain areas and safety mechanisms for escape and rescue routes. The basis for this is the precise recording by STEINEL sensors and the seamless forwarding of the collected data to common building management systems such as Beckhoff, Wago or Phoenix Contact.



Ethernet

Information about connection-essence and light to the DALI system

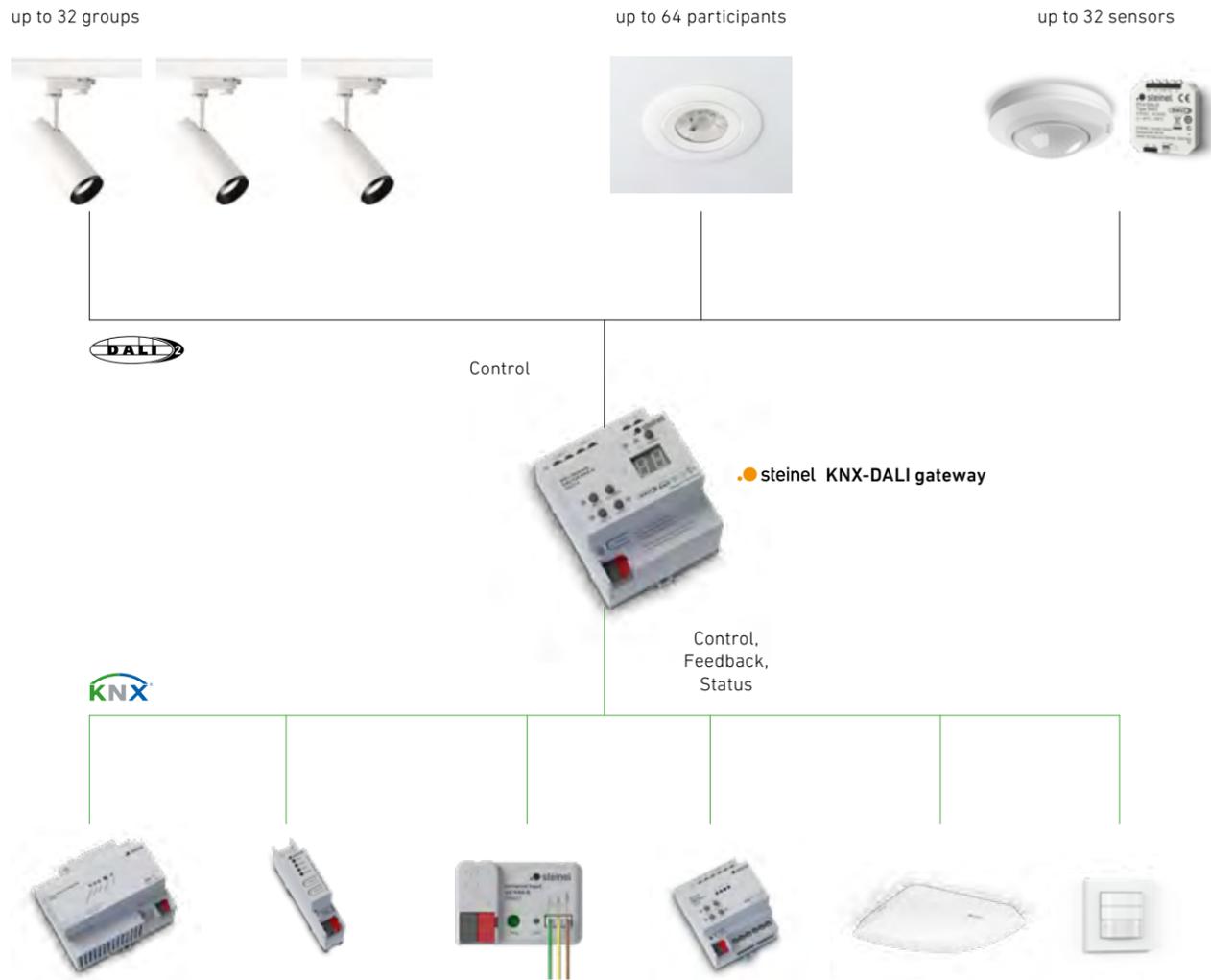


Output of further measured values to the building management system



We combine lighting and building control.

The KNX-DALI gateway from STEINEL connects the DALI lighting control system with the KNX building system, opening up completely new possibilities for efficient and intelligent lighting control. By utilising sensor data from the DALI network and the KNX bus, lighting scenarios can be optimally adapted - for greater energy efficiency, maximum convenience and needs-based control in modern buildings.



The number of sensors that can be operated in a DALI system depends on how high the power consumption of the sensors is and how many DALI operating devices are available. Up to 32 sensors per DALI system can be addressed. There are also 32 light channels available per DALI system. The maximum current consumption limit of 2 mA does not apply to sensors. Sensors often require a significantly higher current consumption. No more than 128 mA may be used per DALI system to supply all DALI devices!

Product overview



DALI64 KNX-S, 1-gang

- Integration of DALI-2 IPD sensors possible!
- Control of max. 64 DALI devices in max. 32 groups
- KNX current consumption: 5mA
- 5-year product guarantee

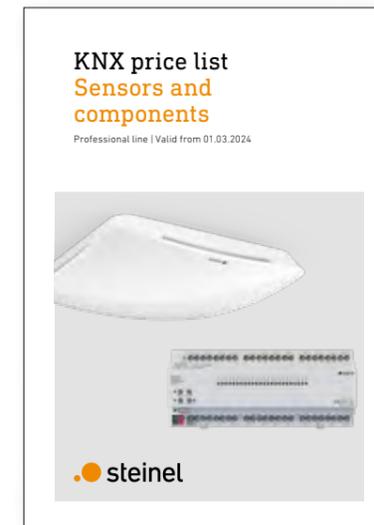
EAN [4007841 089207](#)



DALI128 KNX-S, 2-gang

- Integration of DALI-2 IPD sensors possible!
- Control of max. 2x 64 DALI devices in max. 2x 32 groups
- KNX current consumption: 5mA
- 5-year product guarantee

EAN [4007841 089214](#)



KNX solutions from a single source - STEINEL makes it possible

STEINEL supplies the largest KNX range of motion and presence detectors. And the best thing is: from now on we also include **actuators** and other **system components** to our range, so that you can conveniently obtain everything from a single source. Experience our entire KNX expertise and the technical data of our products in one brochure.

To download



STEINEL DALI-2

Lighting control from simple to extensive.

STEINEL GmbH
Dieselstraße 80-84
33442 Herzebrock-Clarholz
Germany

Phone +49 (0) 5245-448-0
www.steinell.de
[youtube.com/steinelgmbh](https://www.youtube.com/steinelgmbh)
<https://www.xing.com/pages/steinelgmbh>



Contact for
sensors & lights

STEINEL (UK) Ltd.
25 Manasty Road, Axis Park,
GB -Peterborough Cambs PE2 6UP
England

Phone: +44-1733-366-700
Fax: +44-1733-366-701

For orders and enquiries:
steinel@steinel.co.uk
For technical questions:
technical@steinel.co.uk

steinel@steinel.co.uk