

DALI-2

Simply go to !

Time for intelligent light.



● steinel

DALI World at STEINEL

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"As a sensor specialist, we can solve any lighting task, from simple to extensive. Paired with our system components, a STEINEL DALI 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 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 solutions!

From simple to extensive.

Any lighting task can be solved.

Lighting channels are the key to flexible and efficient control of modern DALI-solutions - from simple applications to extensive 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 a specialist for sensor technology, we offer a wide range to ensure we have the right sensor for every application. From simple lighting control in a single office with just one light channel to extensive lighting control with up to 16 light channels for entire floors. Just do it!



IR Micro Office,
3000 series



IR Quattro HD
DALI duo 24m



IR Quattro HD
DALI plus 24m



Control PRO II series



LiveLink

Light channels

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

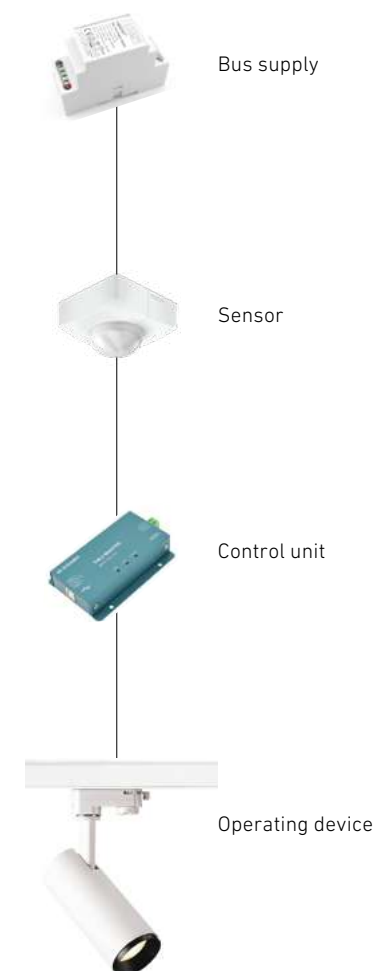
- Since 2019 under the auspices of the DALI Alliance (DiiA - Digital Illumination Interface Alliance)
- With the mandatory DALI-2 certification, in addition to the control gear, control gear must also comply with the specifications of the standardisation.
- Control devices can be application controllers 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

Simpler, better and more flexible with the STEINEL DALI solutions.

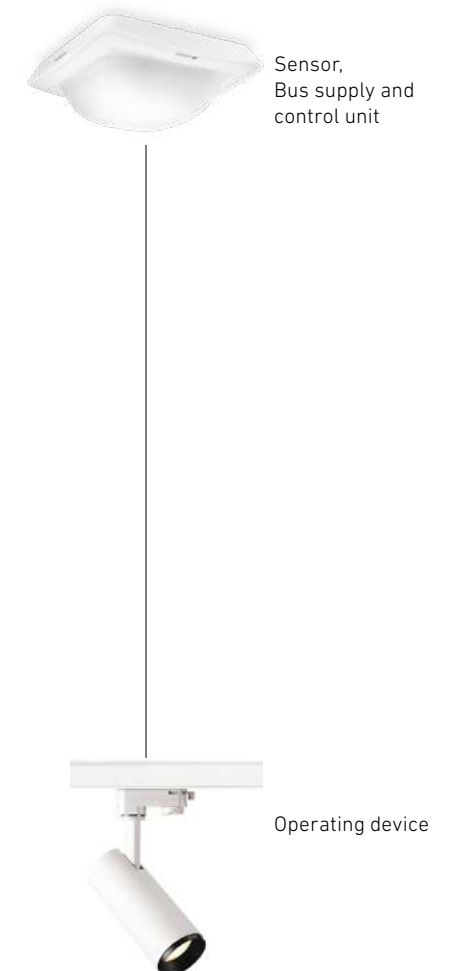
A DALI lighting control system consists of a central control unit (DALI controller) that is connected to controllable luminaires, sensors and switches so that individual lighting groups, brightness levels and scenarios can be flexibly configured and automatically controlled. The STEINEL APC sensors significantly simplify the structure and therefore the installation.



Topology in general



STEINEL Application Controller (APC)



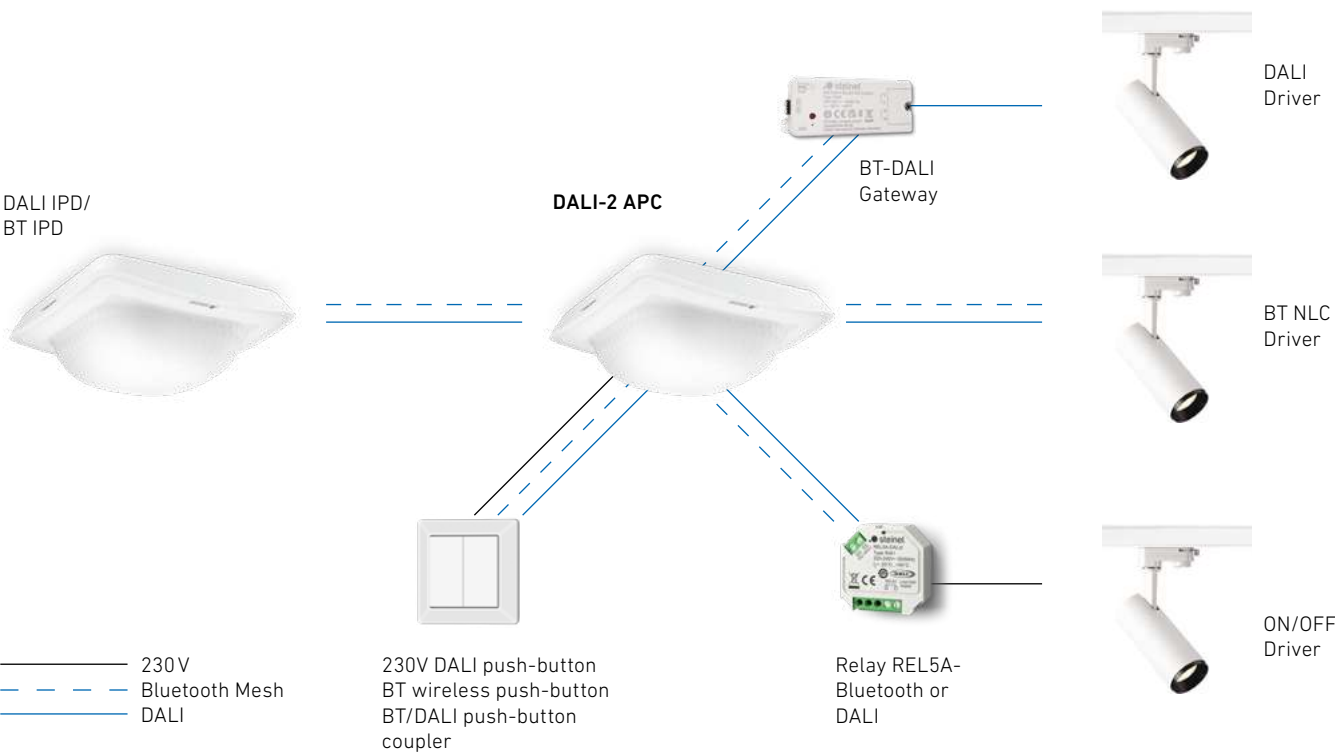
Unbeatable in flexibility and function.

Numerous lighting control options with the Control PRO II series.

Special features

- The application controller combines bus voltage, sensor and control unit in one product. This simplifies installation.
- Bluetooth mesh networking significantly simplifies commissioning. The DALI system is also more flexible. This means that wireless push-buttons, push-button couplers, rotary dimmers or gateways can also be integrated at a later date - all from a single source!
- The Control PRO II series combines an unprecedented range of measured variables and functions. Temperature and humidity data with simultaneous control of a multi-zone and use of a folding wall function? No problem!

Bluetooth MESH



6 STEINEL advantages to solve any lighting task:

The right sensor technology for every application The application controller is available in different versions of the Control Pro II series with true presence, infrared and high-frequency technology. The system can also be extended with all Steinel IPD sensors or relays - always suitable for your application.	System control as required. The DALI system can not only be controlled based on presence and light. Time and day-dependent light profiles can also be set for time-based control. Practical, if the lighting control is different at the weekend than during the working day.
Simple lighting control. Standard functions such as lighting groups, constant light control, ambient light and light scenes are easily configured via the STEINEL Connect app.	Comprehensive lighting control. The following functions enable even more flexible room utilisation. Folding wall function for automatically adjusted light control in rooms with flexible walls, e.g. gymnasiums. Multizone to conveniently switch to presentation mode in classrooms, for example. The neighbour group function increases room comfort by ensuring that it is never completely dark when is present.
Networking as required. Whether a completely wired installation, a wireless solution via Bluetooth Mesh - DALI for renovations or even a hybrid combination - everything is possible.	Easy to install and still flexible. Bus voltage, control unit and presence and light meter in one device - this saves time during installation. It is still possible to make subsequent changes by simply addressing them in the app.

STEINEL Application Controller - the central intelligence in the system.

By integrating a complete control unit into the load section of a sensor, has succeeded in combining the essential functions for DALI-based lighting control with simple installation and operation. Many applications can therefore be realised quickly and easily.

Properties of the APCs:

- Decision-makers in the system
- Picks and configures the system
- Controls the light via direct commands to operating devices
- Only operating devices are connected to a single master, IR Micro Office
- Additional input devices, such as IPDs or push-button couplers, can be connected to a Multimaster, Control PRO II series/ DALI plus/ 3000 series

STEINEL Application Controller (APC)



Sensor, bus supply
and control unit



Operating device



 **Bluetooth® MESH**

The Control PRO II series:



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



- Hallway**
- 360° high-frequency sensor
 - Mounting height max. 4 m
 - Range 25 x 3 m



- HF 360-2**
- 360° high-frequency sensor
 - Mounting height max. 4 m
 - Range Ø 12 m



- IR Quattro HD-2 24 m**
- 360° infrared sensor
 - Mounting height max. 10 m
 - Range 24 x 24 m

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	HF 360-2	Hallway	True Presence	IR Quattro HD-2
Technology	Infrared	Infrared	Infrared	Infrared	Infrared		Infrared	Infrared	Infrared	High frequency	High frequency	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
Light channels	1	1	1	1	1		2	3	1	4 + Multizone	4 + Multizone	4 + Multizone	4 + Multizone
Control output	Broadcast 1 x 30 TLN	Broadcast 1 x 30 TLN	Broadcast 1 x 30 TLN	Broadcast 1 x 30 TLN	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. 30	max. 30	max. 30	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	Bluetooth	Bluetooth	Bluetooth
Slave sensors	DALI-2 IPDs	DALI-2 IPDs	DALI-2 IPDs	DALI-2 IPDs	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	Potis, Smart Remote + App	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	Ø 8 m	Ø 14 m	12 x 6 m	30 x 4 m	3 / 4 m		8 x 8 m	8 x 8 m	4 x 4 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		20 x 20 m	20 x 20 m	6 x 6 m	Ø 12 m	25 x 3 m	Ø 15 m	24 x 24 m
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 067127				
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.

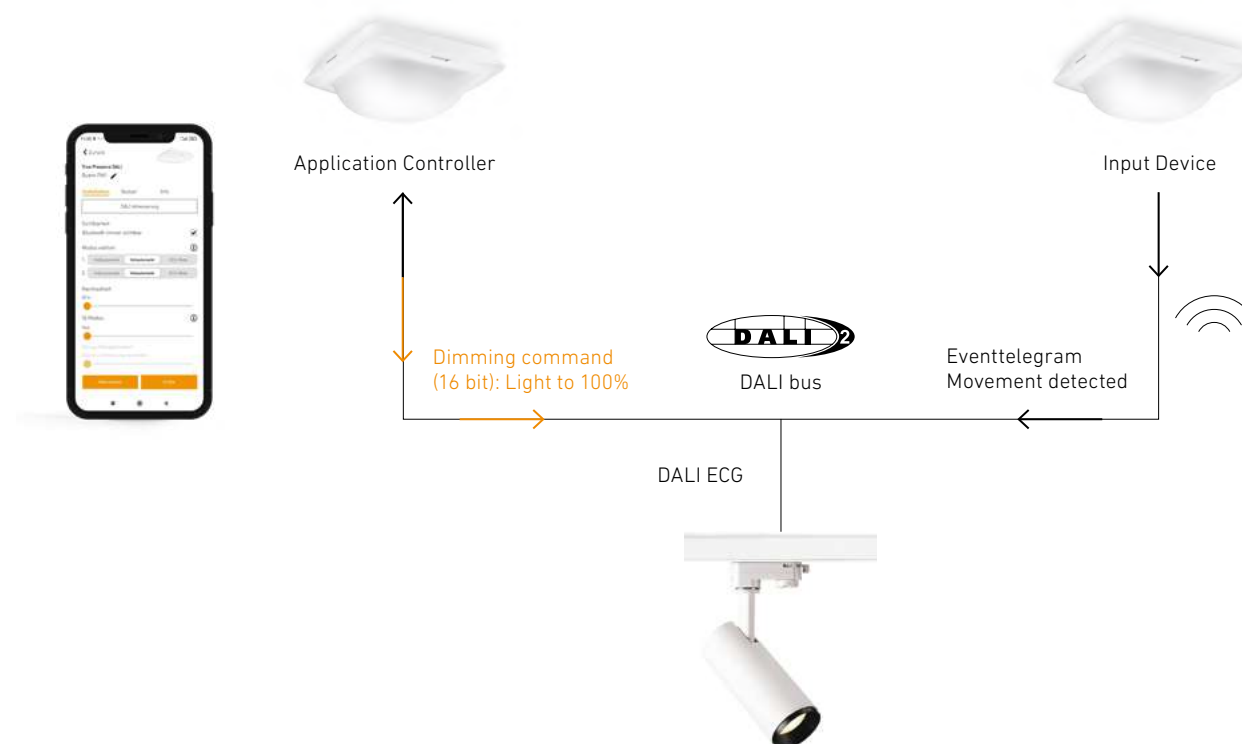
Properties of the IPDs:

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



 **Bluetooth® MESH**

Communication between APC and IPD



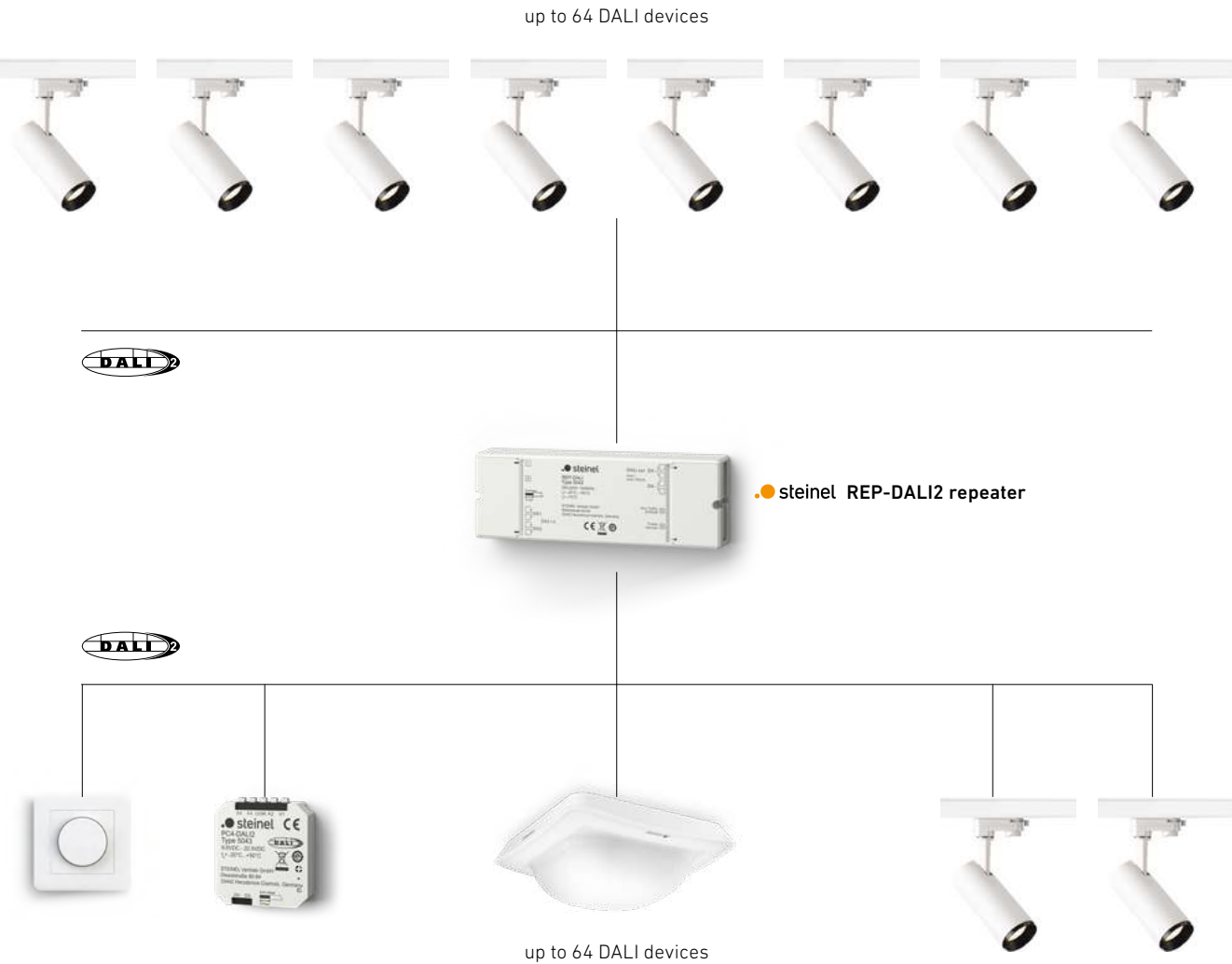
Input Devices -
Sensors in comparison.



	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. 3	max. 3	max. 3	max. 3		max. 6	max. 6	max. 11	max. 13		max. 10
Power consumption	max. 6 mA	max. 6 mA	max. 6 mA	max. 6 mA	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)	Cable (DALI bus)	Cable (DALI bus)		Cable (DALI bus)	Cable (DALI bus)	Bluetooth	Bluetooth	Bluetooth	Bluetooth
Settings via	Potis, Smart Remote remote-operation + app	Potis, Smart Remote remote-operation + app	Potis, Smart Remote remote-operation + app	Potis, Smart Remote remote-operation + app	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				
EAN AP angular	4007841 057237	4007841 057374		4007841 057398	4007841 057350				4007841 086602	4007841 086367	4007841 064501	4007841 064389
EAN UP round	4007841 057268		4007841 057305				4007841 088194	4007841 088279				
EAN UP angular	4007841 057244				4007841 057367				4007841 086619	4007841 086398	4007841 064495	4007841 064372
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](#)



Broadcast Module-DALI2

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

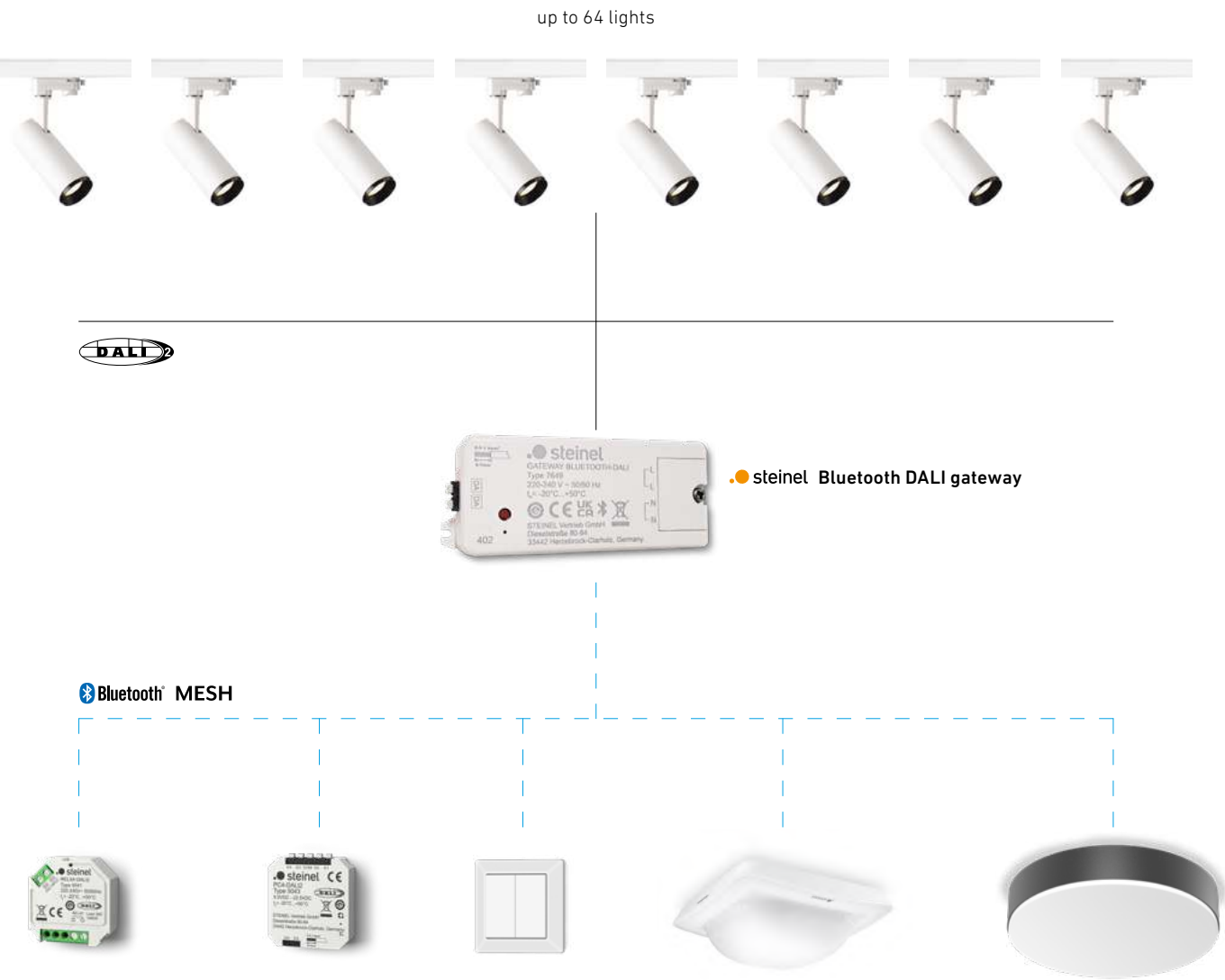
EAN [4007841 084981](#)

Compatibility table

	 3000 series (DALI APC)	 Control PRO II series (DALI APC)	 IR Micro Office (DALI APC)	 LiveLink
DALI push-button coupler	-	-	-	-
DALI relay	-	-	-	-
DALI Broadcast	-	-	-	-
DALI repeater	-	-	-	-
DALI dimmer	-	-	-	-

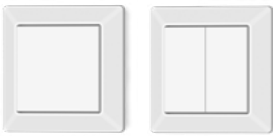
DALI-2 without cable - perfect for renovation and new buildings.

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
- Flexible and easy to retrofit and convert
- Individual control of Bluetooth Mesh products
- 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](#)

System extensions



Bluetooth DALI gateway

- 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)	Control PRO II series (DALI APC)	IR Micro Office (DALI APC)	LiveLink
Bluetooth piezo push-button	-	-	-	-
Bluetooth push-button coupler	-	-	-	-
Bluetooth relay	-	-	-	-
Bluetooth DALI Gateway	-	-	-	-
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.

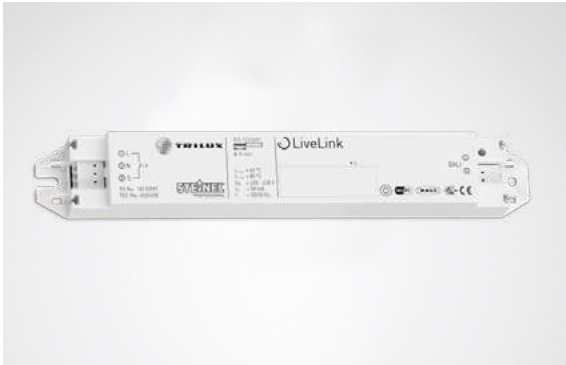
And with the new STEINEL LiveLink app, installation and operation are easier and safer than ever before. The result: genuine plug-and-play lighting management at the click of a button.



LiveLink LAN DR

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

EAN [4007841 055455](#)



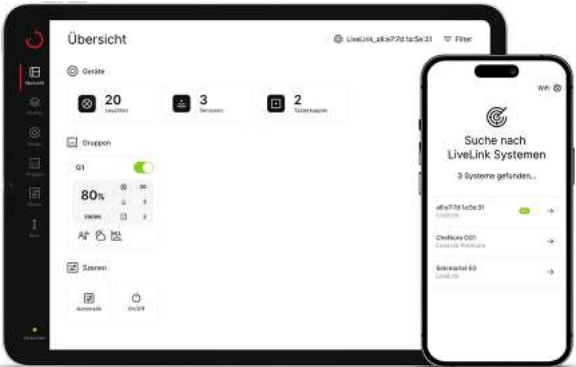
LiveLink WiFi control unit

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

EAN [4007841013653](#)

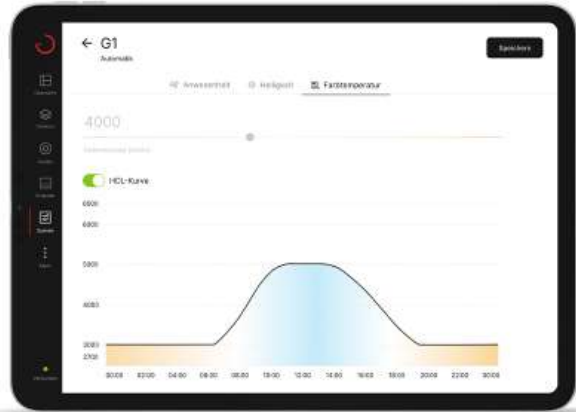
Maxipainter comfort. Minipainter Installationseffort.

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.



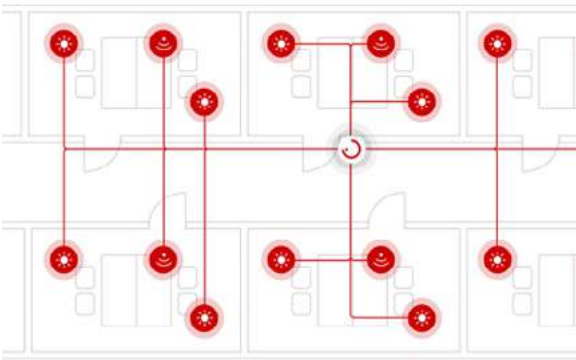
More flexibility. More lightquality.

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.



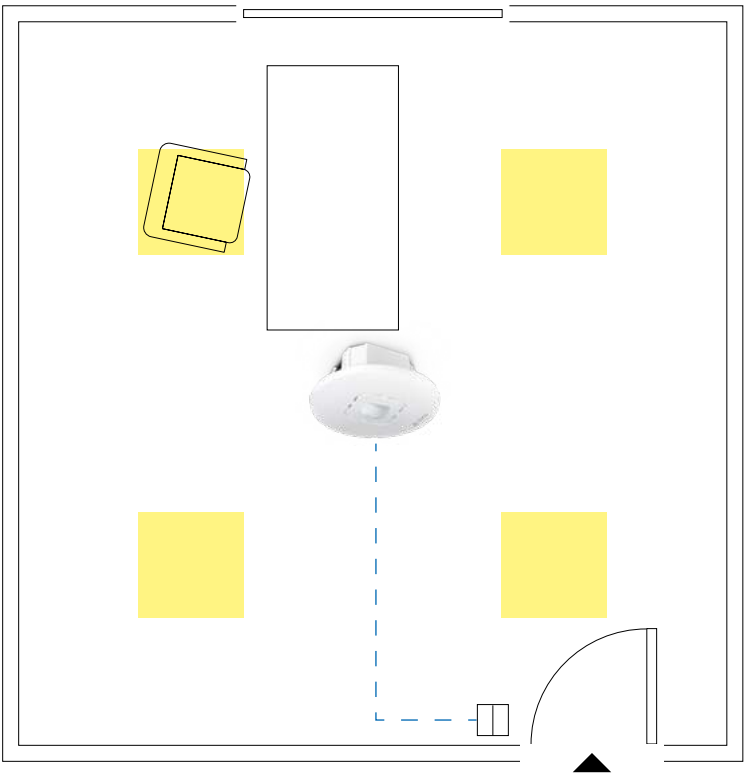
Perfect lighting control for any environment.

Whether an individual office, meeting room, open-plan office, classroom, warehouse, lobby, corridor or WC - the DALI 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 slave sensor, which only receives a 230 V power supply and no DALI connection
- Push-button integration either wired or wireless



IR Micro Office 6m

- Perfect for small rooms
- Light management, e.g. Constantlightcontrol, dimming, semi-/fully automatic
- Broadcast control of up to to 20 dimmable DALI luminaires
- Cover caps for detection-aboundary 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			

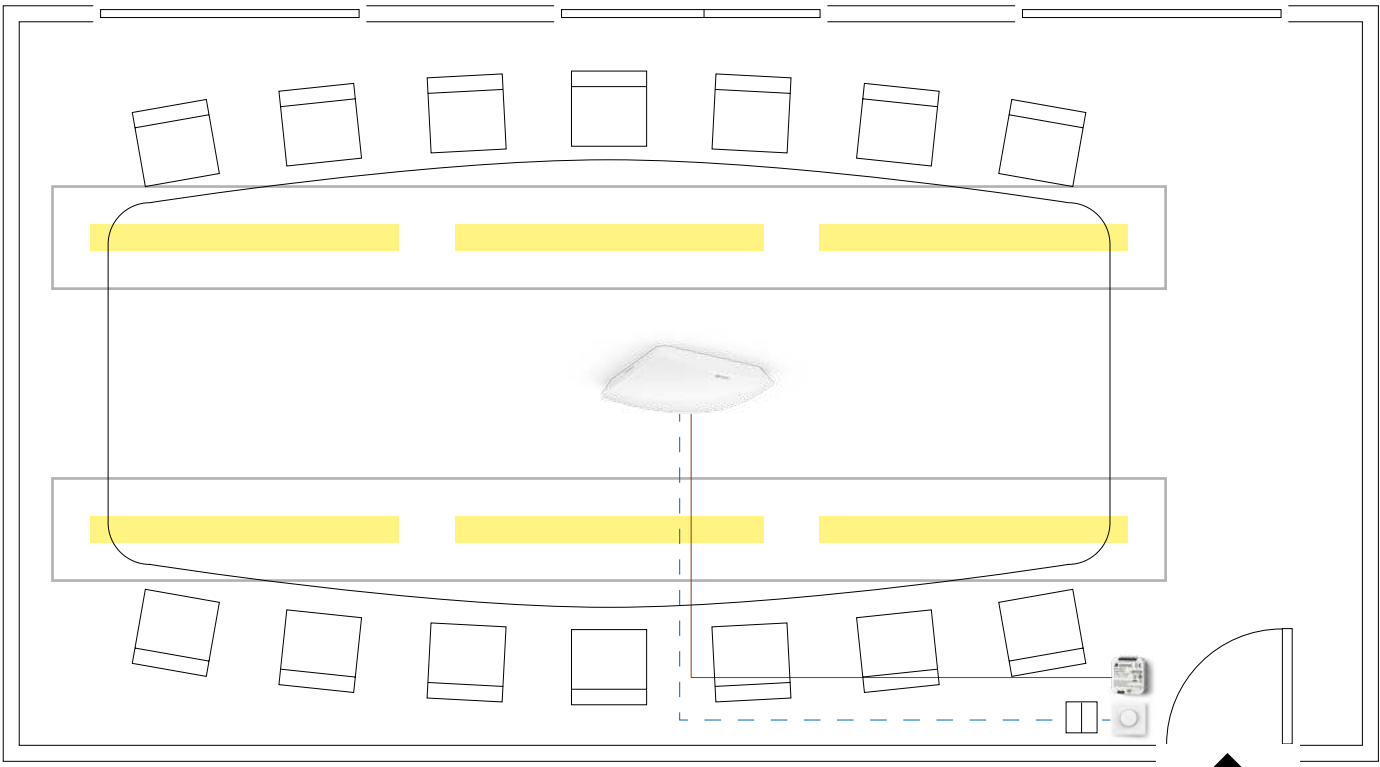
Optional system components

All system components from p. 20

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



— Luminaire group

True Presence® APC

- 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



 	Bluetooth MESH		
	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

True Presence® APC flush-mounted, Bluetooth Mesh	4007841 085599
True Presence® APC surface-mounted, Bluetooth Mesh	4007841 085582
True Presence® IPD flush-mounted, Bluetooth Mesh	4007841 064495
True Presence® IPD surface-mounted, Bluetooth Mesh	4007841 064501

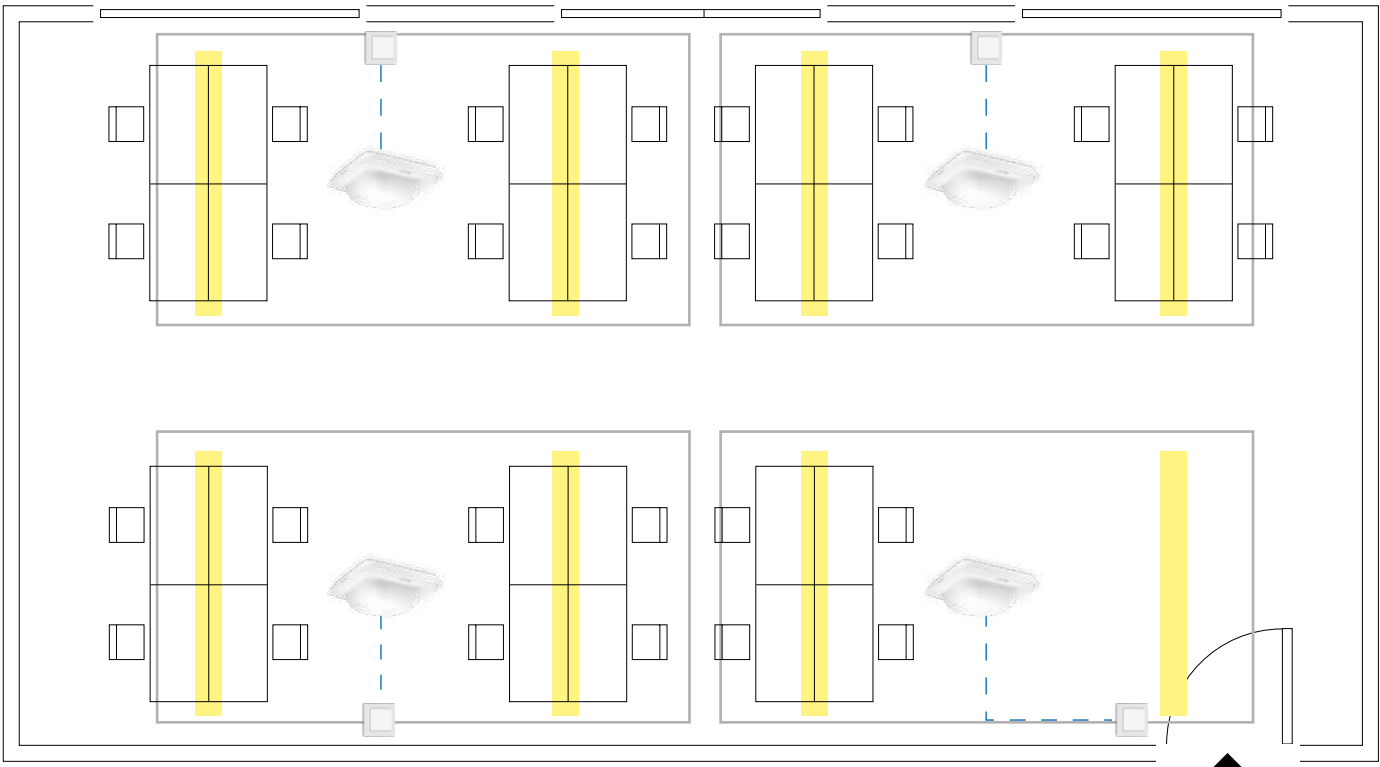
Optional system components

All system components from p. 20

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

- 4 sensors for 4 work areas
- a neighbour group function is possible thanks to BT networking of the sensors
- Neighbour group function increases comfort, as illumination of the entire room can be ensured by ambient light
- Integration of Bluetooth buttons per work area for manual override



— Luminaire group

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 IR Quattro HD-2 24m APC flush-mounted..... 4007841 064358 IR Quattro HD-2 24m IPD flush-mounted..... 4007841 064372 IR Quattro HD-2 24m APC surface-mounted..... 4007841 064365 IR Quattro HD-2 24m IPD surface-mounted..... 4007841 064389			

Optional system components

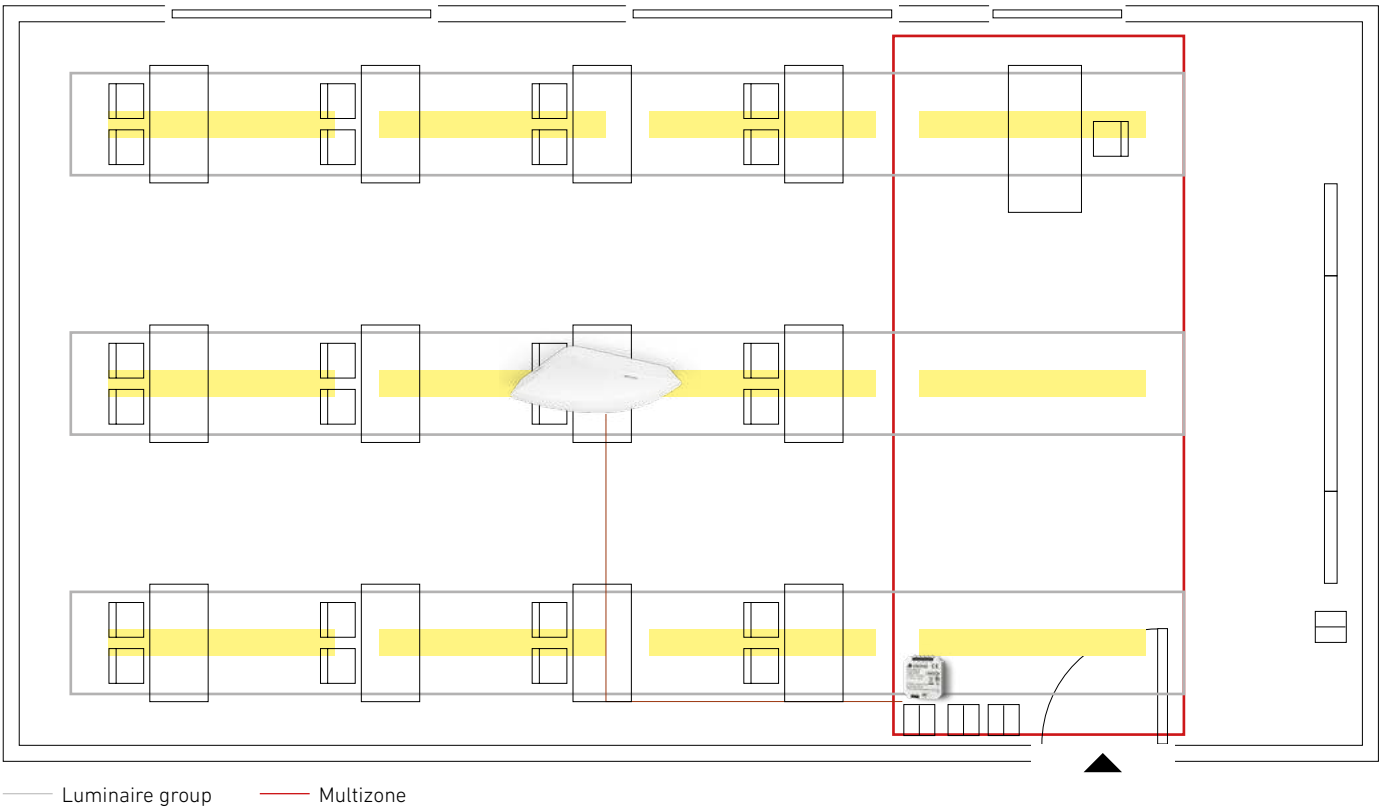
All system components from p. 20

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



Classroom

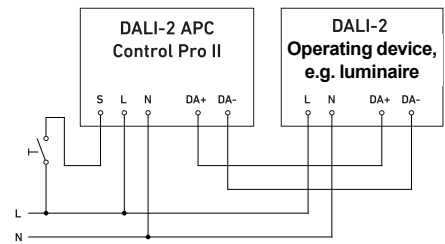
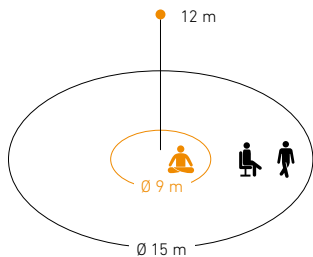
- Control of 3 lighting groups and one multizone
- Push-button on the panel is supplied with 230 V and wired directly to the sensor
- 3 push-buttons are integrated via DALI push-button coupler
- DALI2 IPD or Bluetooth IPD sensors can be connected as slave sensors



— Luminaire group — Multizone

True Presence® APC

- 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



Bluetooth MESH

Set up and network via Bluetooth Mesh



Suitable for mounting-height up to 12.00 m



Twilight setting



True Presence technology for real presence detection



Time-setting



Further technical information online

Order details

- True Presence® APC flush-mounted, Bluetooth Mesh [4007841 085599](#)
- True Presence® APC 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

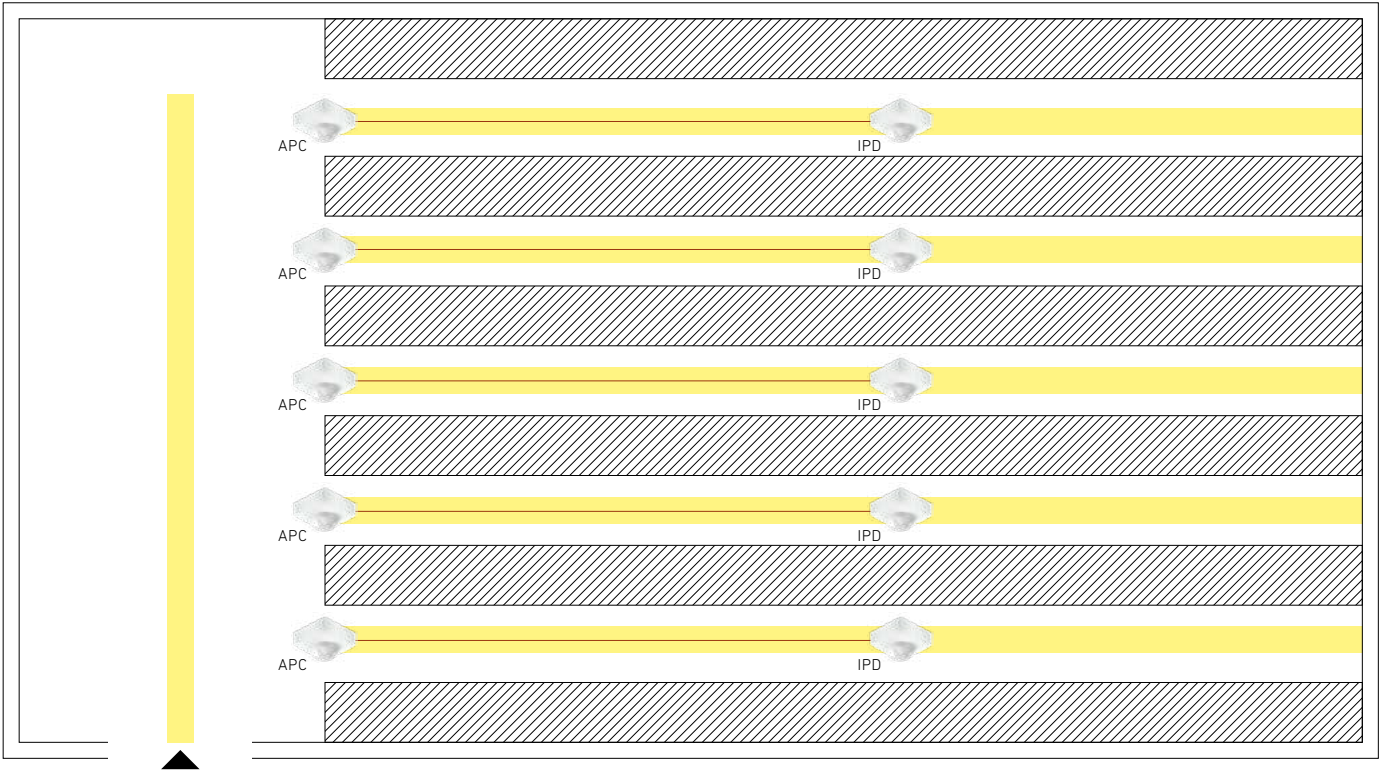
All system components from p. 20

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



High-bay warehouse

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



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 30 x 4 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		

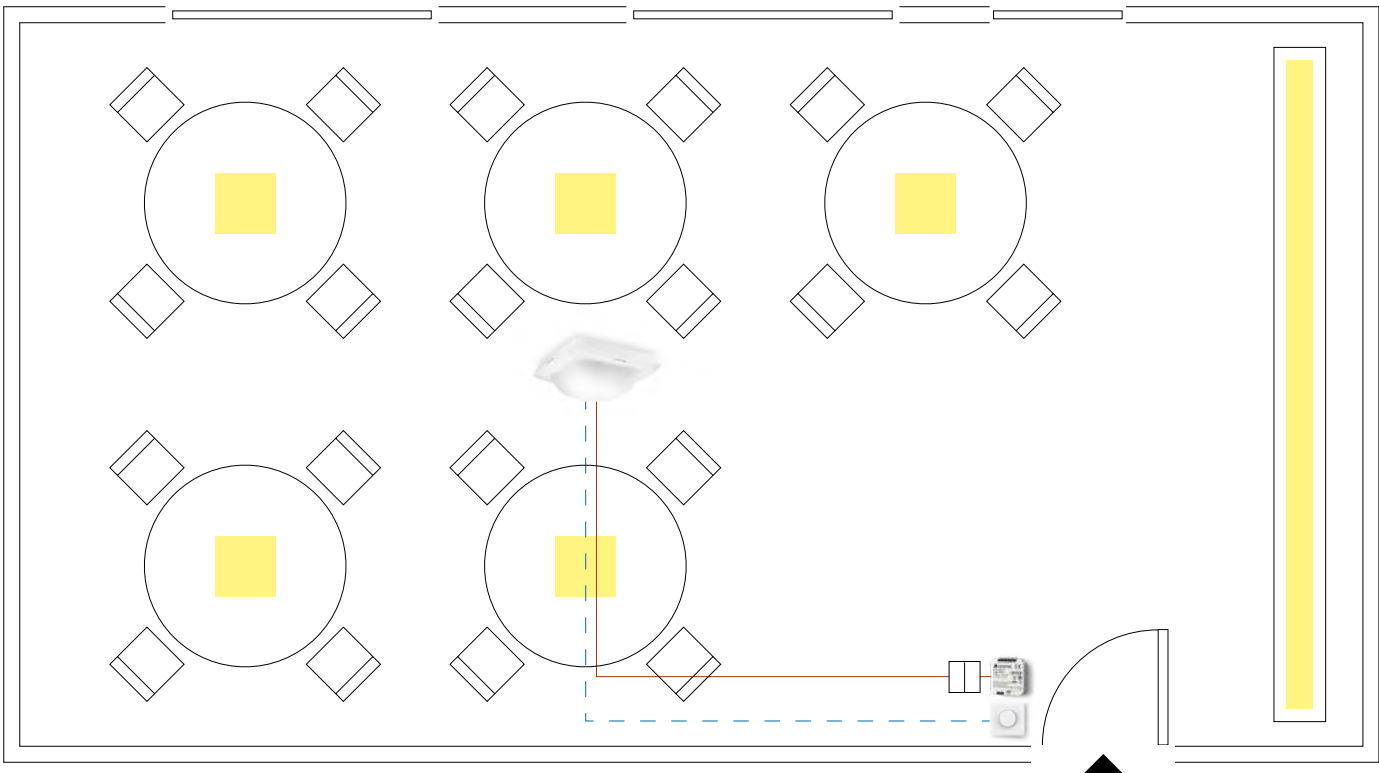
Optional system components

All system components from p. 20

REP-DALI2 repeater EAN 4007841 082116		Broadcast Module-DALI2 EAN 4007841 084981	
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Breakfast room

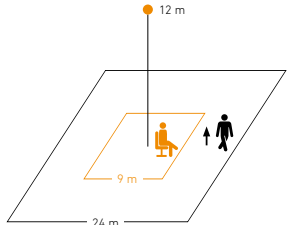
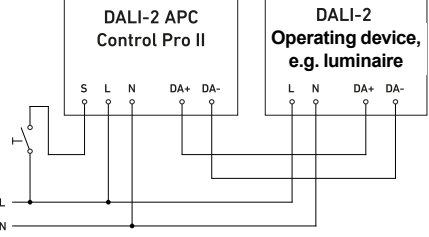
- Control of two lighting groups, dining area and buffet
- Setting different light scenes, such as the welcome scene with ambient lighting or cleaning lighting
- Push-buttons and rotary dimmers can be integrated via DALI as well as via Bluetooth
- DALI2 IPD or Bluetooth IPD sensors can be connected as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



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



	Bluetooth MESH		
	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 IR Quattro HD-2 24m APC flush-mounted..... 4007841 064358 IR Quattro HD-2 24m IPD flush-mounted..... 4007841 064372 IR Quattro HD-2 24m APC surface-mounted..... 4007841 064365 IR Quattro HD-2 24m IPD surface-mounted..... 4007841 064389			

Optional system components

All system components from p. 20

Rotary dimmer RDIM-Bluetooth EAN 4007841 067328		Push-button coupler PC4-DALI2 EAN 4007841 082123	
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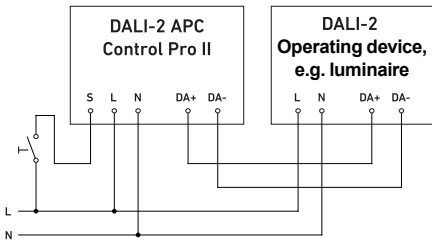
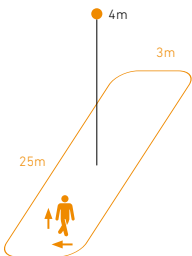
Hallway

- STEINEL DALI-2 solutions are perfect for installation in the 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 buttons via Bluetooth possible



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



Bluetooth MESH

Set up and network via Bluetooth Mesh



Suitable for mounting-height up to 4.00 m



360° high-frequency gear sensor



Temperature and humidity measurement



Detection area 25 x 3 m radial



Further technical information online

Order details

- Hallway APC flush-mounted, Bluetooth Mesh [4007841 086299](#)
- Hallway APC surface-mounted, Bluetooth Mesh..... [4007841 058012](#)
- Hallway IPD flush-mounted, Bluetooth Mesh..... [4007841 086398](#)
- Hallway IPD surface-mounted, Bluetooth Mesh [4007841 086367](#)

Optional system components

All system components from p. 20

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

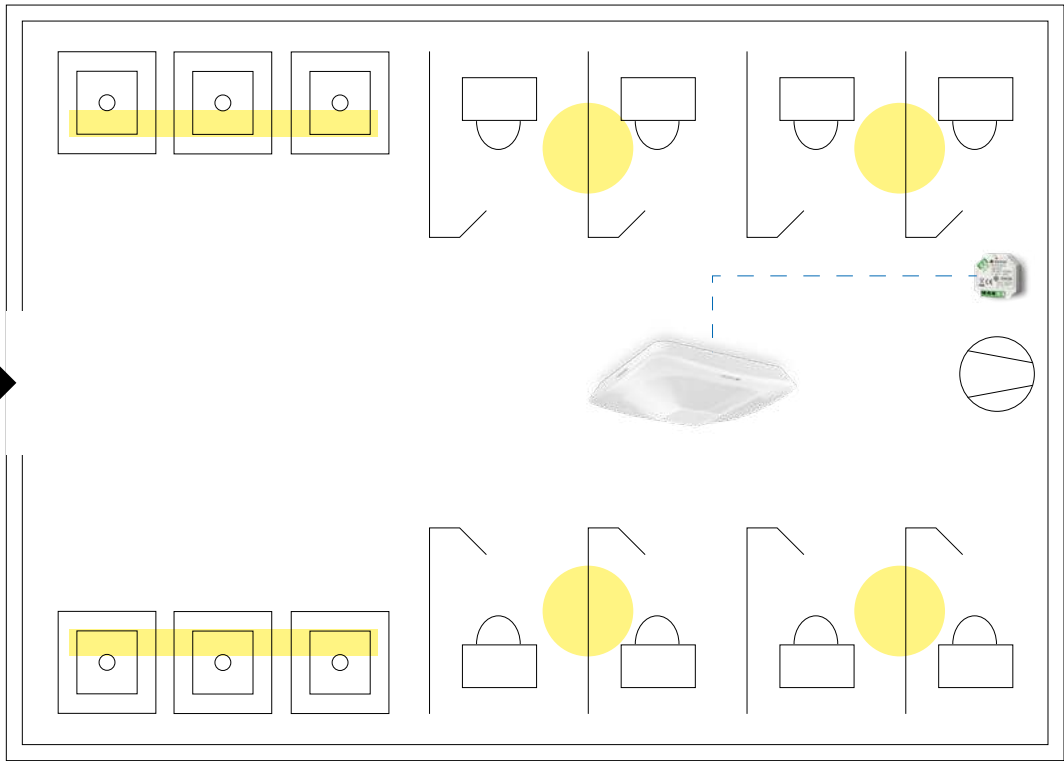


Push-button coupler PC4-Bluetooth
EAN [4007841 067342](#)



WC

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



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



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

Optional system components

All system components from p. 20

 Relay REL5A-DALI2 EAN 4007841 082109	 Relay REL5A-Bluetooth EAN 4007841 067335
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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.



Information about connection-
essence and light to the DALI system



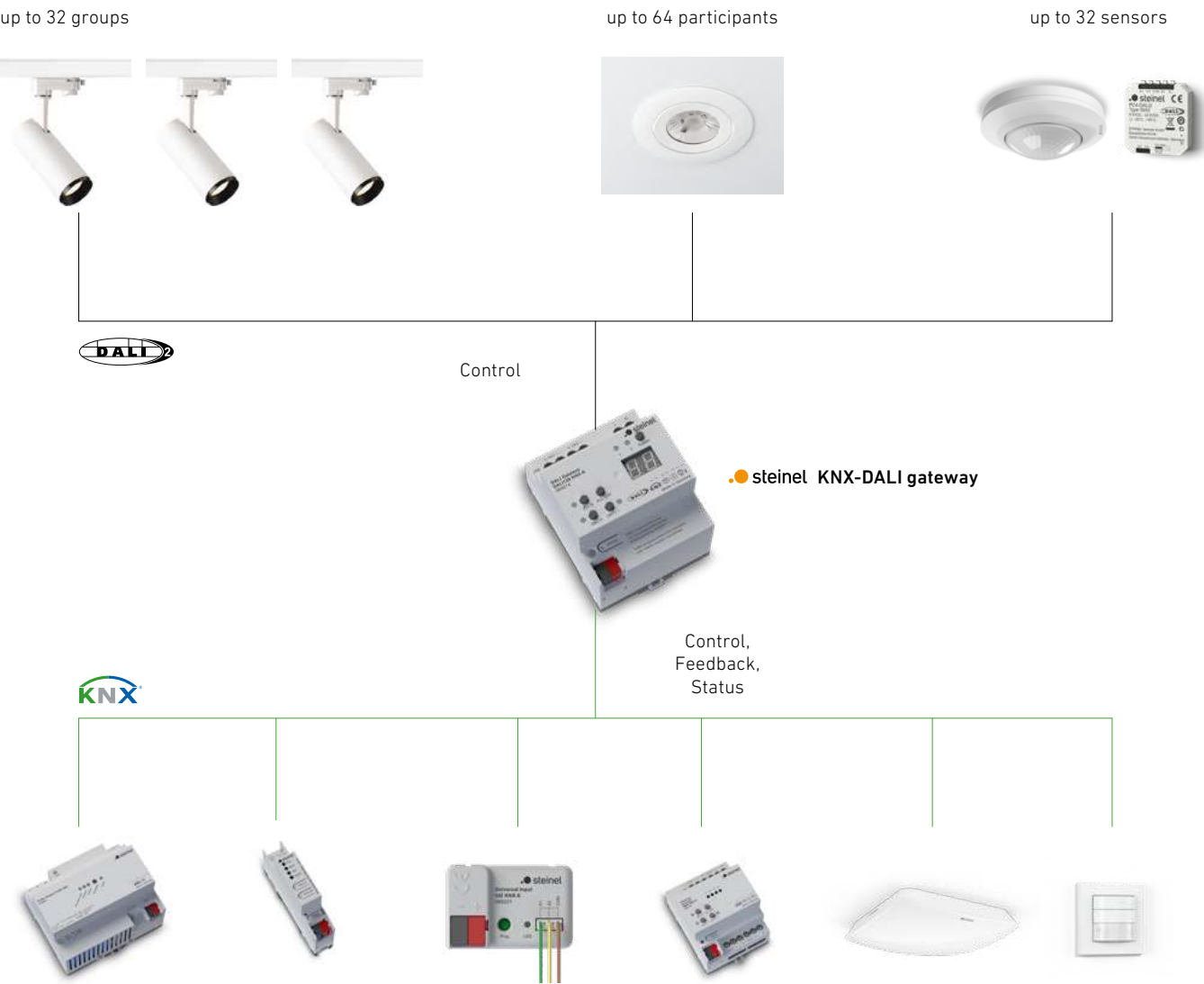
Ethernet

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

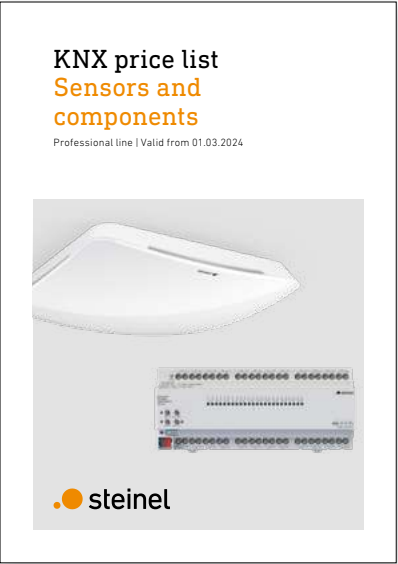
EAN [4007841 089207](#)



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

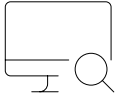
STEINEL supplies the largest KNX range of motion and presence detectors. And the best thing is: from now on we also include **actuators** and other **system components** to our range, so that you can conveniently obtain everything from a single source. Experience our entire KNX expertise and the technical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

To download



From planning to realisation. Service made by STEINEL.

For over 60 years, we have been inventing and developing technological products, which are far ahead of their time and may well change entire markets. We specialise in sensor technology and supply everything to do with automatic lighting and building automation. Product, software and service - we have everything you need for your application.

RELUX® Technical support STEINEL Professional Planning service Relux	Technical back office
	Commissioning service
 You can find the product range, operating instructions and product videos at www.steinel.de	5 years Our professional products stand for reliability and years of use. In addition, comes with a 5-year manufacturer's warranty for maximum safety.

Lighting control from simple to extensive.

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<https://www.xing.com/pages/steinelgmbh>



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