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- Energy consumption
- Operating hours counter
- Luminaire data

Light is IoT ready

DALI PRO 2 IoT

DALI PRO 2 IoT is the innovative LMS control technology for the IoT age. DALI-2 certified and featuring a controller for two DALI lines as well as a built-in gateway, it meets all of today's requirements for professional and efficient light management. Thanks to its browser-based graphical user interface, commissioning the system is as fast and easy as never before.



A fast and comfortable system

DALI PRO 2 IoT

Entering the world of IoT is easy. The DALI PRO 2 IoT comes with a built-in gateway and provides a simple way to access cloud applications. In addition, its browser-based graphical user interface offers a time-saving and intuitive commissioning experience.

Commissioning in three easy steps

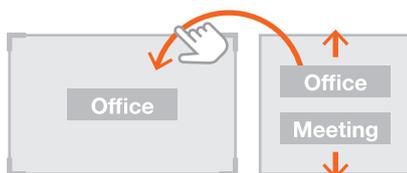
DALI PRO 2 IoT makes it easy for installers to familiarize themselves with the system. The handling of the device is intuitive and easy. Once installed, wireless commissioning is quickly done via an intuitive user interface, using either a notebook computer (LAN or Wi-Fi*) or a smart device (Wi-Fi).



Save time with our pre-defined profiles and drag-and-drop

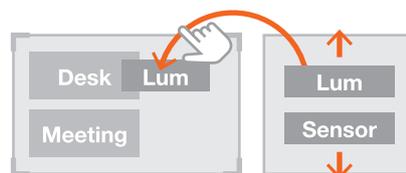
1 Select a profile

Select one of the 10+ pre-defined profiles and simply drag and drop it into your "Project area".



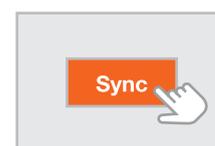
2 Assign luminaires, sensors etc.

With the same drag-and-drop method, assign devices to the profile (e.g. luminaires, sensors etc.).



3 Store in DALI PRO memory

Once the commissioning process is completed, click the "Sync" button to store your work in the DALI PRO, which is now ready for use.



Your profiles need some fine-tuning?

Pre-defined profile parameters can be fine-tuned by the user via the "properties" function.

* At this point in the process, you need to decide which technology you will be using. For this, we provide you with a built-in decision-making aid. This tool will help you choose between browser-based commissioning via Wi-Fi ("Easy Mode") and the more detailed process via notebook/LAN ("Integrator Mode").

Easy access to the world of IoT

Provided that the connected LED drivers are prepared for the specification parts 251 to 253 (luminaire information, energy consumption and predictive maintenance), the built-in gateway can push these data into the Inventronics Cloud, where they can be viewed via the EM/MA dashboard. Authorized users have access to the dashboard from anywhere in the world via internet connection.

1 Cloud log-in/authorization

Accessing and using the cloud is safe, convenient and easy. If you want to use the EM/MA dashboard, please request access from your luminaire supplier. You will then receive an e-mail for registration and access to the dashboard.



2 Automatic data import

When connecting to the cloud, your data are automatically imported and stored.



3 Safe data monitoring in the cloud

The system creates a “digital twin” with your data within the cloud. From now on, you can safely access the EM/MA dashboard from anywhere and easily monitor and analyze your lighting installation.



4 Open API

You can, however, also create your own dashboard and offer your own innovative services, using our REST/MQTT API. This way, the lighting installation can interface with third-party cloud applications.



Efficient monitoring

With more features and functions than ever before, the new DALI PRO 2 IoT light management system is ready for the future. The EM/MA cloud application helps you navigate, monitor and optimize your lighting installations. **The cloud services Energy Monitoring and Maintenance Assistant (EM/MA) can be purchased through the luminaire supplier.**

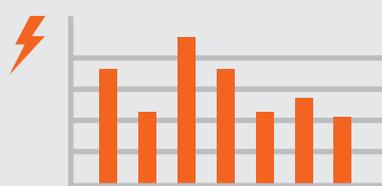
1 Dashboard

The clearly arranged dashboard offers lots of useful information. It immediately provides you with an overview of the entire lighting installations within the building or buildings you are monitoring.



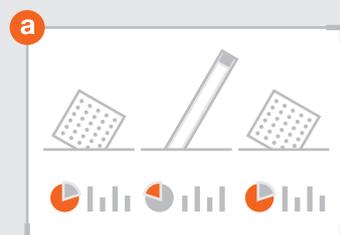
2 Energy Monitoring

Gain insight into individual energy consumption areas. The EM/MA dashboard shows the data that will help you identify possibilities to optimize your lighting system.



3 Maintenance Assistant

Easy and fast access to individual operating hours of the luminaires for better planning of the maintenance schedule.



DALI PRO: A proven and future-proof system for various applications

DALI PROFESSIONAL is a scalable light management system with a continuously enriched feature set, which includes emergency lighting control and reporting, remote access and an open application programming interface (API) for enabling third-party cloud applications. It provides a wide range of functions, such as controlling light colors (RGB), color temperatures (TW) and dynamic color changes. These features round up standard functions such as switching, dimming, presence detection and daylight-dependent lighting control.

Moreover, the system can easily be integrated into your KNX system. The interface KNX IF 250 ensures the bidirectional data exchange between DALI PROFESSIONAL and a KNX system so that centralized functions, such as switching and dimming as well as individual lighting control, can be executed via KNX.

Benefits

- DALI-2-certified for improved interoperability
- Monitoring of energy consumption and maintenance data via EM/MA cloud application
- Connect up to 128 drivers and 126 input devices (sensors, couplers etc.)
- LAN Interconnect to connect up to 8 controllers into one network (1028 DALI devices)
- A simple, template-based web user interface for fast commissioning or a powerful PC tool for full flexibility and demanding projects
- Connection via on-site local network or controller's own Wi-Fi network
- Daylight simulation via dynamic scene recall and/or light sensor regulation
- Building management system integration via optional KNX interface
- Automated testing and reporting of self-contained, DALI Emergency Lighting fixtures
- Remote access for changes in the configuration from every location
- Automatic FW updates (requires an Internet connection)
- REST/MQTT API for connection of the DALI PRO 2 IoT controller with third-party cloud applications

Areas of application

- Room control, floor control, daylight-dependent control
- Offices: Conference rooms, individual and open-plan offices, corridors
- Industry: Production and assembly facilities, logistics centers
- Education: Classrooms, training rooms, sports halls

Equipment/Accessories

- USB Wi-Fi dongle (included)
- DALI PRO PC software
- End-user mobile app

References/Links

<https://www.inventronics-light.com/dali-pro-2-iot>

Features

- DALI-2-certified
- Controller for two DALI lines
- Built-in IoT gateway
- Browser-based graphical user interface
- Form factor of 6 TE (DIN rail)
- LAN interconnection for project extension
- Remote access
- DALI-2 (part -202) Emergency Lighting compliant
- Open REST API

Remote Access

Make changes to the configuration from remote and in a secure way, using our Remote Access service. This service saves you time and money, as you can apply changes without the need to visit the project site.

1 Set up the Remote Access feature

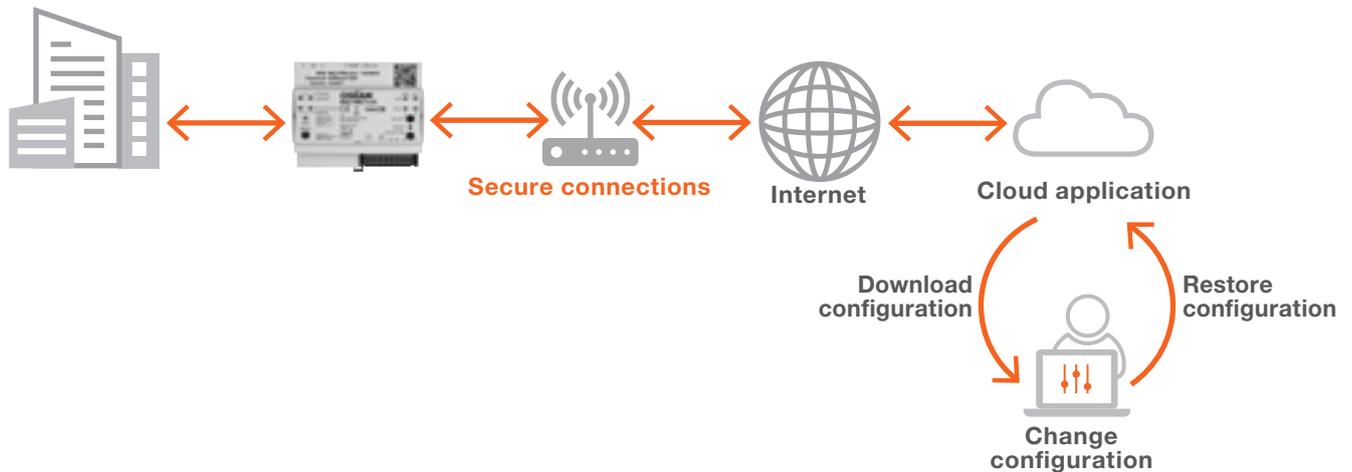
Create an account, activate (one-time action) and log in to the Remote Access service.

2 Log-in

Log in to the controller and download the configuration file.

3 Make changes and upload file

Using the PC Tool program, make the necessary changes, save the file and upload it to the controller.



Emergency Lighting (EL)

Ensure occupant safety by controlling and testing your self-contained DT1 emergency luminaires, using the same lighting controller as for your normal DALI installation.

1 Unlock the EL feature

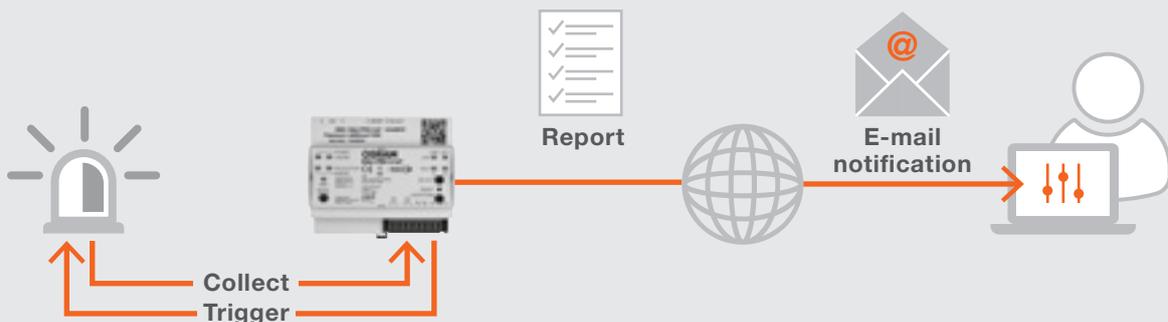
The feature is freely available for up to five EL devices per controller. To unlock the full feature, please request an activation key by providing the controller's S/N. Follow the user instructions to activate the feature.

2 Configure the tests

Use the Web UI or the PC Tool to log in to the controller and configure the frequency of the function and duration tests. Trigger both tests at your will.

3 Receive e-mail notifications

The EL feature of the DALI PRO 2 IoT issues and emails an EL report and sends out alarm notifications in case of a detected failure.



Architecture

State-of-the-art commissioning

Thanks to the cutting-edge technology offered by DALI PRO 2 IoT, installers on site can configure the system via Wi-Fi – easily, flexibly and much faster than in the past.



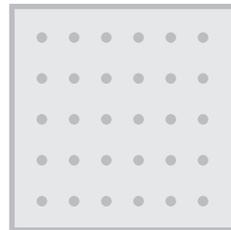
Pushbuttons



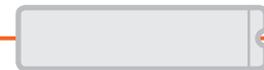
Sensors



Luminaires + LED drivers



LED modules



LED drivers



DALI emergency lights

Emergency Lighting (EL)

The EL feature of the DALI PRO 2 IoT allows you to automatically test your DT1 emergency luminaires. It creates and emails an EL report and sends out alarm notifications in case of a detected failure.

User control

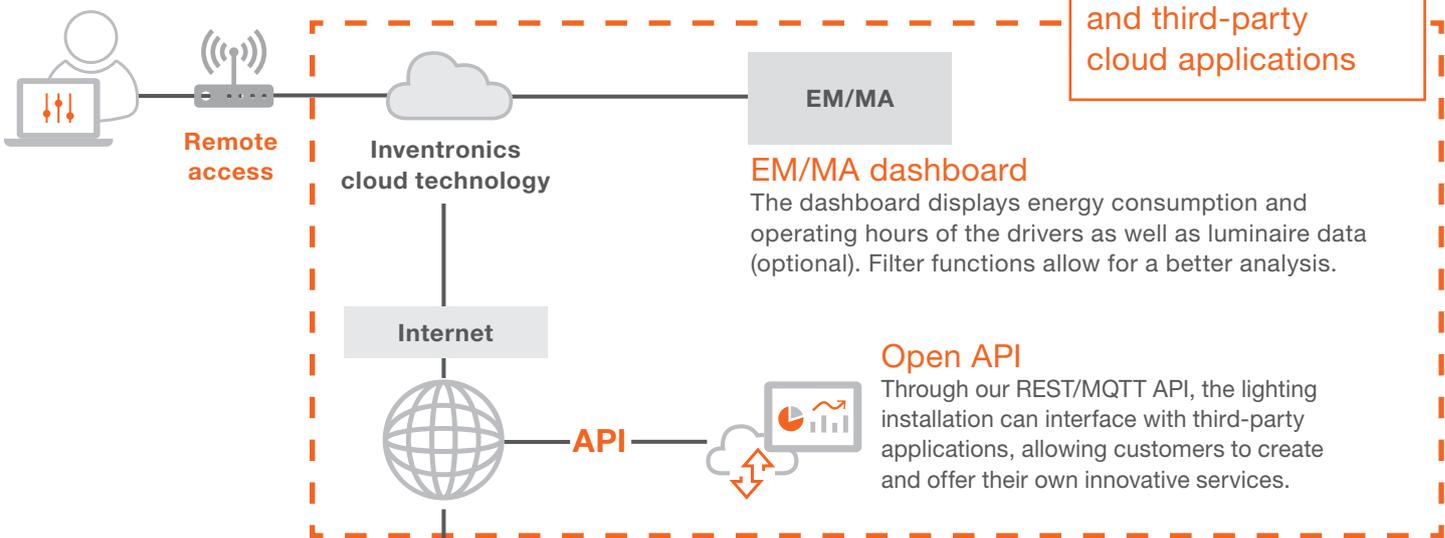
More and more end customers are getting used to accessing electrical devices via smartphones. By downloading the OSRAM app, they can control the programmed light functions in selected areas intuitively and efficiently.



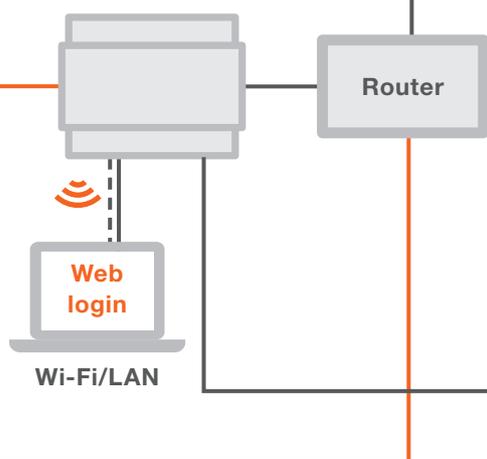
Wi-Fi

Remote Access

Use our web application Remote Access to change the configuration file without visiting the site

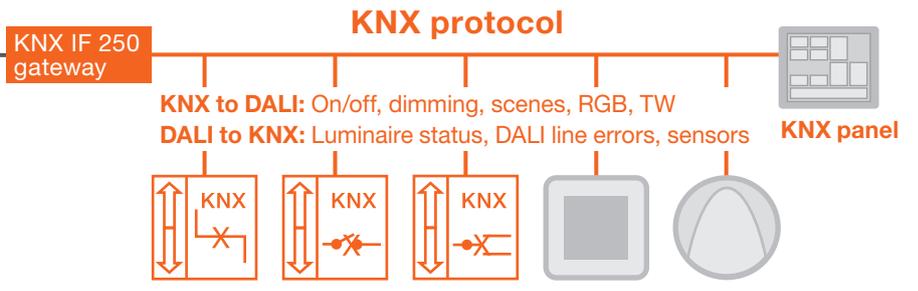


DALI PRO 2 IoT



Energy Monitoring and Maintenance Assistant

In combination with our cloud technology, the DALI PRO 2 IoT system enables facility managers and other users to monitor their lighting installations via the EM/MA dashboard. All they need is Internet access and a respective subscription.



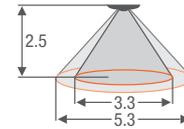
OSRAM DALI-2 input devices (sensors and couplers)

Mounting type: Luminaire integration



- DALI SENSOR LS/PD LI G2**
DALI-2 light and presence sensor for luminaire integration
- Compact housing design incl. frames for different mounting types
 - Presence detection angle adjustable via integrated shutters
 - Powered by DALI bus

Product reference	GTIN (EAN)	Dimensions [mm]
DALI SENSOR LS/PD LI G2	4062172072069	48 x 15 x 17

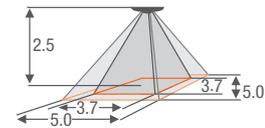


Dimensions [m]					
Mounting height	2	2.5	3	4	5
Presence	2.5	3.3	4	5	–
Motion	4.5	5.3	6	7	7



- DALI SENSOR LS/PD LI UF G2**
DALI-2 light and presence sensor for luminaire integration
- Flat housing design (installation depth of only 11 mm)
 - Presence detection angle adjustable via shutters
 - Powered by DALI bus

Product reference	GTIN (EAN)	Dimensions [mm]
DALI SENSOR LS/PD LI UF G2	4062172072045	50 x 21 x 16



Dimensions [m]				
Mounting height	2	2.5	3	4
Presence	3	3.7	4.4	–
Motion	4	5	6	6.5



- DALI-2 SENSOR LS/PD HB LI**
DALI-2 light and motion sensor for luminaire integration
- Detection optimized for highbay applications up to 17 m
 - IP54-protected when mounted
 - Ultra-compact design

Product reference	GTIN (EAN)	Dimensions [mm]
DALI-2 SENSOR LS/PD HB LI	4052899630444	∅37 x 57



Dimensions [m]				
Mounting height	8	12	14	17
Presence	–	–	–	–
Motion	8.5	12.7	14.8	18

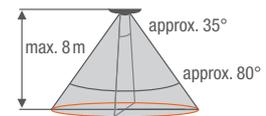
Mounting type: Luminaire integration

(independent mounting possible with additional cable clamps)



- DALI COUPLER HF G2 + HF LS LI sensor head**
DALI-2 light and motion sensor with HF technology
- Elyptic detection area, optimized for corridors
 - HF detection allows for integration into damp-proof luminaires
 - Optional: Independent mounting with cable clamp (ECO CI KIT)

Product reference	GTIN (EAN)	Dimensions [mm]
DALI COUPLER HF G2	4062172072199	118 x 30 x 21
HF LS LI	4052899921481	56 x 28 x 21
ECO CI KIT (optional)	4008321392091	–

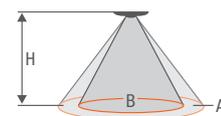


Dimensions [m]				
Mounting height	4	6	8	10
Presence	–	–	–	–
Motion	6.7	10	13.4	–
Vehicles	6.7	10	13.4	16



- DALI COUPLER E G2 + external sensor**
DALI-2 coupler for integration of external sensors
- Converts general external sensor signals into DALI-2
 - Can be used in combination with motion detectors with dry contact or switched mains voltage L'
 - Optional: Independent mounting with cable clamp (ECO CI KIT)

Product reference	GTIN (EAN)	Dimensions [mm]
DALI COUPLER E G2	4062172072212	118 x 30 x 21
ECO CI KIT (optional)	4008321392091	–



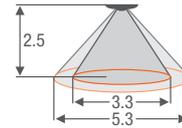
Range of third-party sensor



DALI SENSOR LS/PD CI G2
DALI-2 light and presence sensor for ceiling integration

- Flat design, very small structural height
- Presence detection angle adjustable via integrated shutters
- Powered by DALI bus

Product reference	GTIN (EAN)	Ø	Height [mm]
DALI SENSOR LS/PD CI G2	4062172072083	80	55



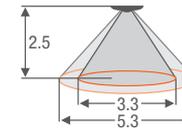
	Dimensions [m]				
	2	2.5	3	4	5
Mounting height	2	2.5	3	4	5
Presence	2.5	3.3	4	5	–
Motion	4.5	5.3	6	7	7



DALI COUPLER MULTI 3 G2 + LS/PD MULTI 3 CI + ECO CI KIT
DALI-2 light and presence sensor for ceiling integration

- Nearly invisible when mounted (diameter: <50 mm)
- Very small installation height needed (<40 mm)
- Presence detection angle adjustable via rotatable sensor head
- Powered by DALI bus

Product reference	GTIN (EAN)	Dimensions [mm]
DALI COUPLER MULTI3 G2	4062172072113	118x30x21
LS/PD MULTI 3 CI	4008321916648	Ø50x25
ECO CI KIT	4008321392091	–



	Dimensions [m]				
	2	2.5	3	4	5
Mounting height	2	2.5	3	4	5
Presence	2.5	3.3	4	5	–
Motion	4.5	5.3	6	7	7



DALI-2 SENSOR LS/PD O CI
DALI-2 light and presence sensor for ceiling integration

- Detection optimized for small movements (e.g. in offices)
- Powered by DALI bus
- Optional: IP54 with mounting kit

Product reference	GTIN (EAN)	Dimensions [mm]
DALI-2 SENSOR LS/PD O CI	4052899630444	Ø 105 x 67
QBM 220-240 LS/PD CM KIT (optional)	4062172161466	–



	Dimensions [m]			
	2	2.5	3	4
Mounting height	2	2.5	3	4
Presence	3	4	4.5	–
Motion	6	8	9	12



DALI-2 SENSOR LS/PD C CI
DALI-2 light and movement sensor for ceiling integration

- Detection area optimized for corridor application
- Powered by DALI bus
- Optional: IP54 with mounting kit

Product reference	GTIN (EAN)	Dimensions [mm]
DALI-2 SENSOR LS/PD C CI	4052899630451	Ø 105 x 82
QBM 220-240 LS/PD CM KIT (optional)	4062172161466	–



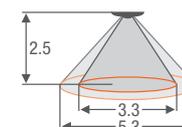
	Dimensions [m]			
	2	2.5	3	4
Mounting height	2	2.5	3	4
Radial	L	12	16	19
	W	2.5	3	3.5
Tangential	L	32	40	40
	W	4	5	5



DALI SENSOR LS/PD LI G2 + LS/PD AP KIT
DALI-2 light and presence sensor for surface mounting

- Small square housing design
- Presence detection angle adjustable via integrated shutters
- Powered by DALI bus

Product reference	GTIN (EAN)	Dimensions [mm]
DALI SENSOR LS/PD LI G2	4062172072069	48x15x17
LS/PD AP KIT	4052899173385	65x65x34



	Dimensions [m]				
	2	2.5	3	4	5
Mounting height	2	2.5	3	4	5
Presence	2.5	3.3	4	5	–
Motion	4.5	5.3	6	7	7

Mounting type: Ceiling integration

Mounting type: Surface mounting



DALI COUPLER LS HIGHBAY G2
DALI-2 light sensor for surface mounting

- Narrow angle optimized for highbay applications
- Adjustable sensitivity (up to a height of 13 m)

Product reference	GTIN (EAN)	Dimensions [mm]
DALI COUPLER LS HIGHBAY G2	4062172072137	139 x 118 x 37



DALI-2 SENSOR LS/PD W CM
DALI-2 light and movement sensor for surface mounting

- Detection area optimized for storage or underground parking
- Powered by DALI bus
- Ingress protection rating: IP54

Product reference	GTIN (EAN)	Dimensions [mm]
DALI-2 SENSOR LS/PD W CM	4052899630468	∅ 105 x 69
QBM 220-240 LS/PD CM KIT (optional)	4062172161466	



		Dimensions [m]			
Mounting height	H	2	2.5	3	4
Radial	B	4	5	5	5
Tangential	A	19	24	24	24



DALI-2 SENSOR PD HB CM
DALI-2 movement sensor for highbay application

- Detection area optimized for highbay applications
- Powered by DALI bus
- Surface-mounting housing with IP54 protection rating

Product reference	GTIN (EAN)	Dimensions [mm]
DALI-2 SENSOR PD HB CM	4052899630475	∅ 105 x 69
QBM 220-240 LS/PD CM KIT (optional)	4062172161466	



		Dimensions [m]			
Mounting height	H	6	8	10	14
Radial	B	–	–	–	–
Tangential	A	9	12	15	21

DALI-2 input device for connecting pushbuttons/switches



DALI COUPLER PUSHB G2
DALI-2-certified pushbutton coupler

- 4 standard pushbuttons/switches with dry contacts can be connected
- Powered by DALI bus

Product reference	GTIN (EAN)	Dimensions [mm]
DALI COUPLER PUSHB G2	4062172087575	42 x 42 x 20

Ordering info

	Product name	Product info	EAN10 (single piece)
	OSRAM DALI PRO 2 IoT	2-channel, DALI-2-certified application controller with integrated IoT gateway	4062172114196
optional			
	KNX IF 250	KNX converter	4062172020008
	KNX PS 640	640 mA KNX bus power supply with integrated KNX bus choke	4062172050500

Use our contact form

www.inventronics-light.com/contact-us



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