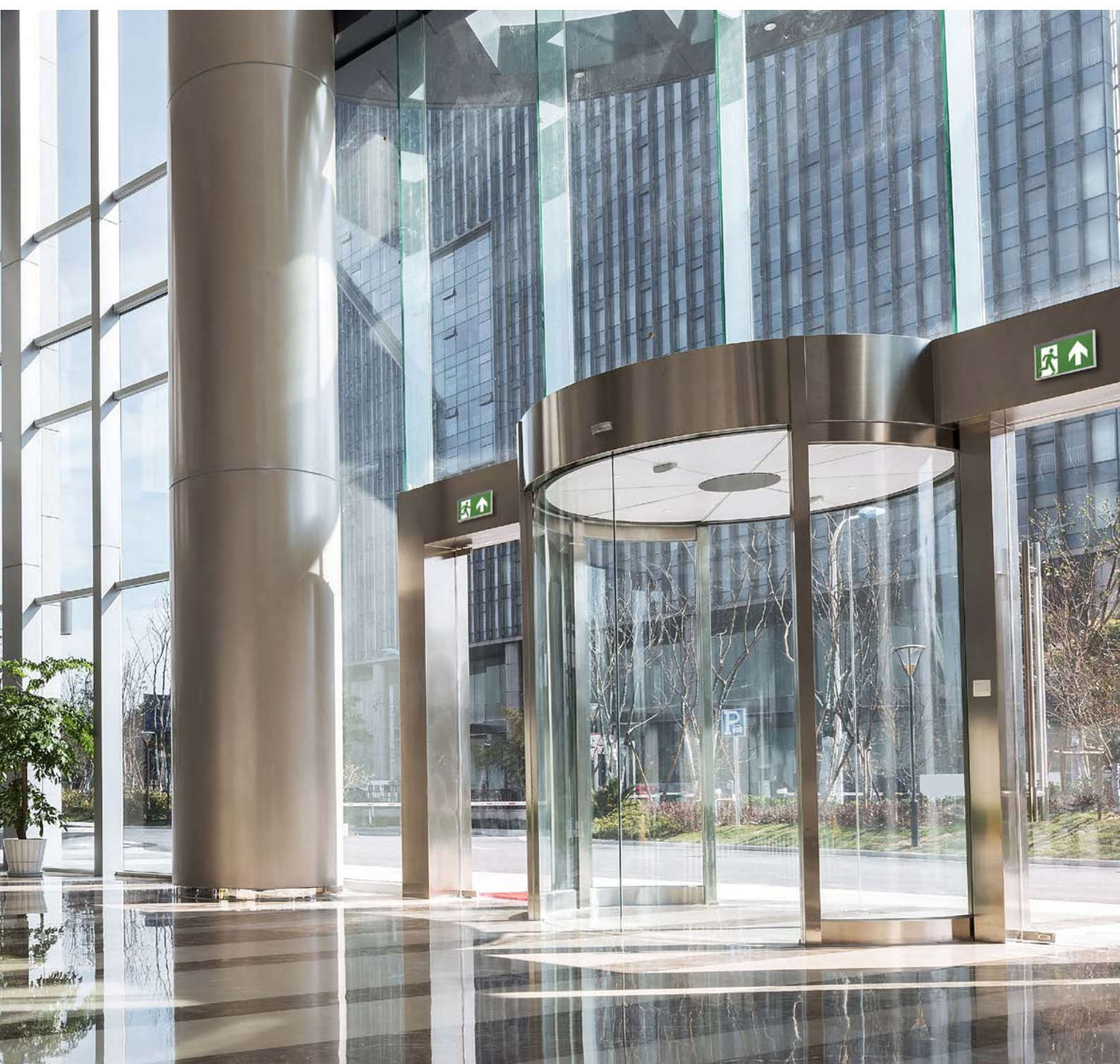

PRODUCT OVERVIEW

DALI emergency lighting

Integration for safe monitoring
in smart buildings



DALI emergency lighting from ABB can easily provide a safe and reliable solution to meet smart building emergency lighting requirements.

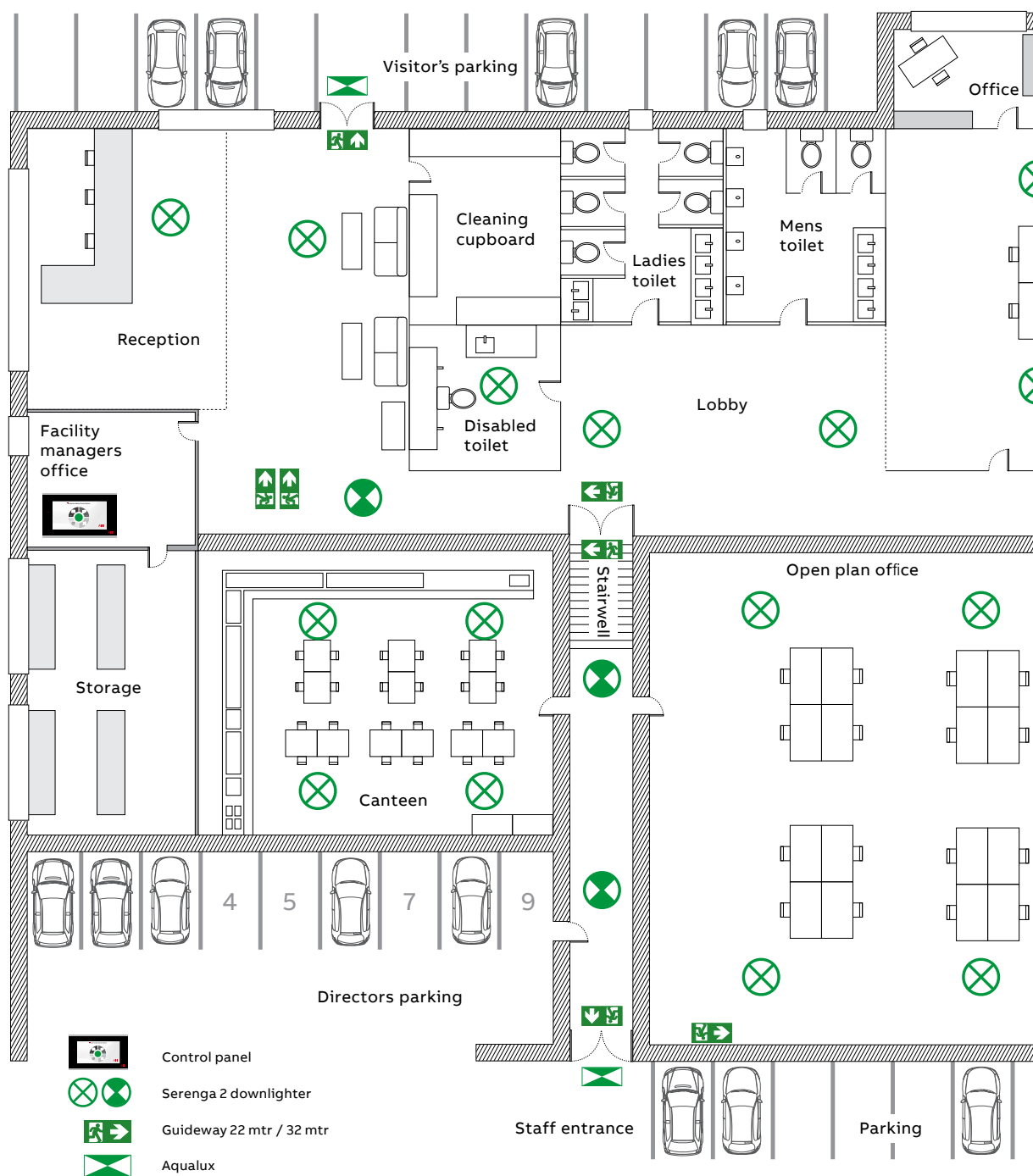
Table of contents

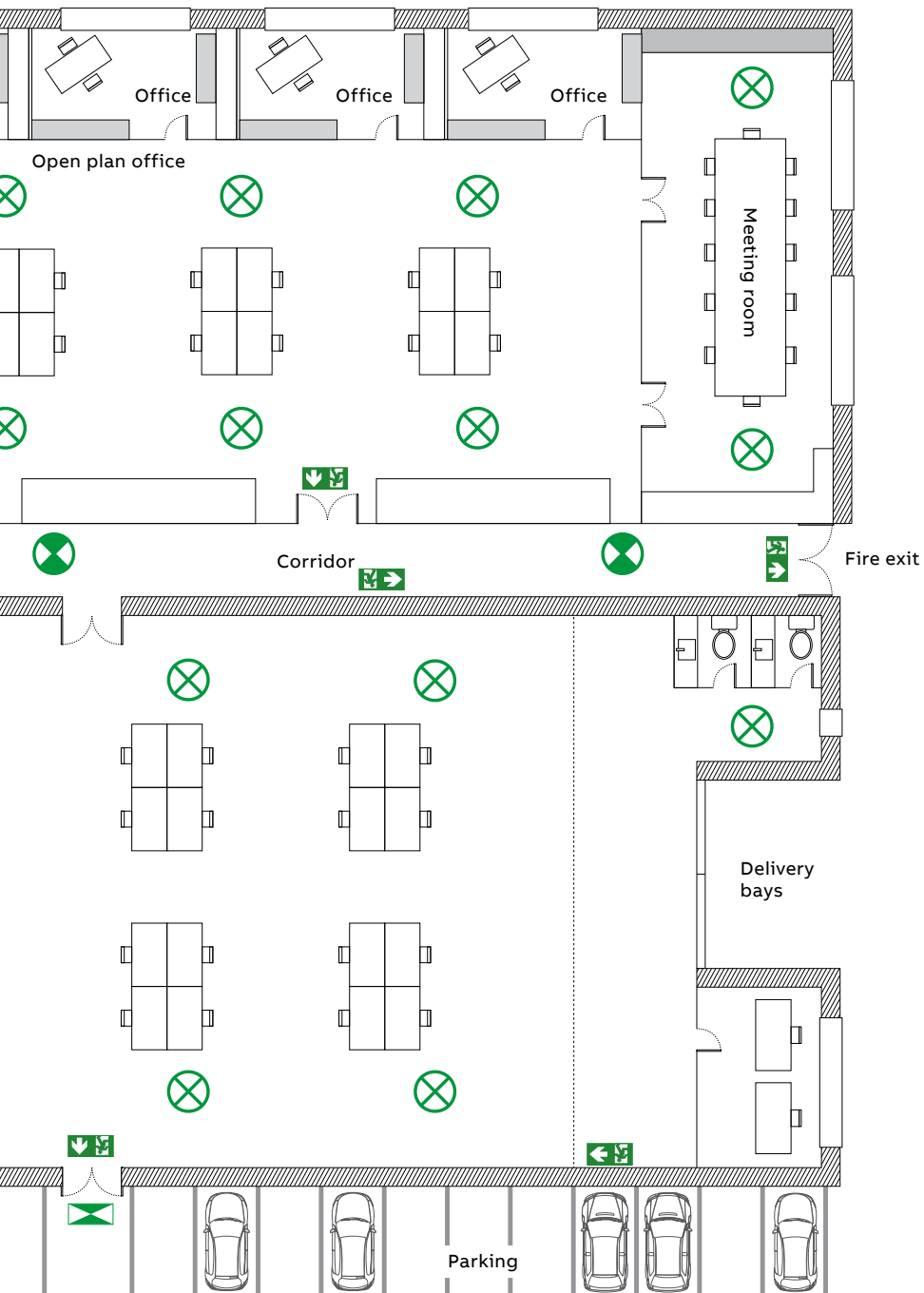
004–005	Product applications
006–007	Why use DALI with emergency lighting?
008–009	Safety of emergency lighting
010–017	DALI compatible luminaires
018–019	What is DALI?
020	Testing & monitoring
021	DALI LAN Connection
022	ABB DALI emergency lighting control system
023	ABB DALI Gateways
024–025	ABB Elkay
026–027	Standards
028–029	Summary
030	Legend & GID code reference

Introduction

Product applications

- 01 Office corridor
- 02 Facility managers office
- 03 Open plan office
- 04 Outdoor area







DALI emergency lighting

Why use DALI with emergency lighting?

Regular system checks must be carried out to guarantee that any emergency lighting system is fully operational. Emergency lighting with DALI constantly monitors the system, storing reports of any failures or issues and ensuring that the system is 100 percent healthy for the maximum time possible. The health of building occupants is assured, and automatic monitoring reduces maintenance costs.

01 Emergency lighting can be controlled and monitored via DALI for maximum safety in all types of property.

DALI emergency system key features:

- Central monitoring from touch screen panel
- Report logging software
- Functional and full duration tests
- Faults reported to central computer, reducing maintenance time and costs
- Fully addressable emergency system with central test to BS-EN and IEC standards
- Switching of maintained luminaires, individually or per group
- Scheduled tests can be programmed via the touch screen panel and automatic tests can be staggered minimising disruption to building users and still protecting every area in case of a real emergency
- Based on the international industry standard DALI protocol
- Utilises standard DALI bus wiring

Advantages of using DALI with emergency lighting



1. Proven DALI technology specific for emergency lighting



2. Our DALI solution is based on non-proprietary systems. As long as all components of a system are DALI compliant, they will be able to communicate with each other



3. Cost-effective solution with reduced maintenance costs after commissioning



4. With the addition of the ABB DALI gateway, we can connect our DALI luminaires with KNX systems and BMS



5. DALI (DiiA) Certified

DALI emergency lighting

Safety of emergency lighting



It has never been more important to ensure the safety of a building, because ensuring safety requires full knowledge that the emergency lighting is fully operational and healthy.

DALI emergency is an extension of the DALI protocol, allowing for monitoring of the status of emergency fittings from a touch screen. Proven DALI technology is specific for emergency lighting.

About DALI emergency

DALI - Digital Addressable Lighting Interface - is an open standard defined under EN62386. This standard ensures that all DALI-compatible emergency control systems work in synchronization and that the technology is available to multiple device manufacturers.

DALI emergency lighting is a cost effective monitored emergency system that often betters the traditional systems

As a standalone monitored emergency system DALI emergency can monitor lamp and battery status and advise whether the luminaires are working, faulty, charge levels and hours of use in either normal or emergency operation.

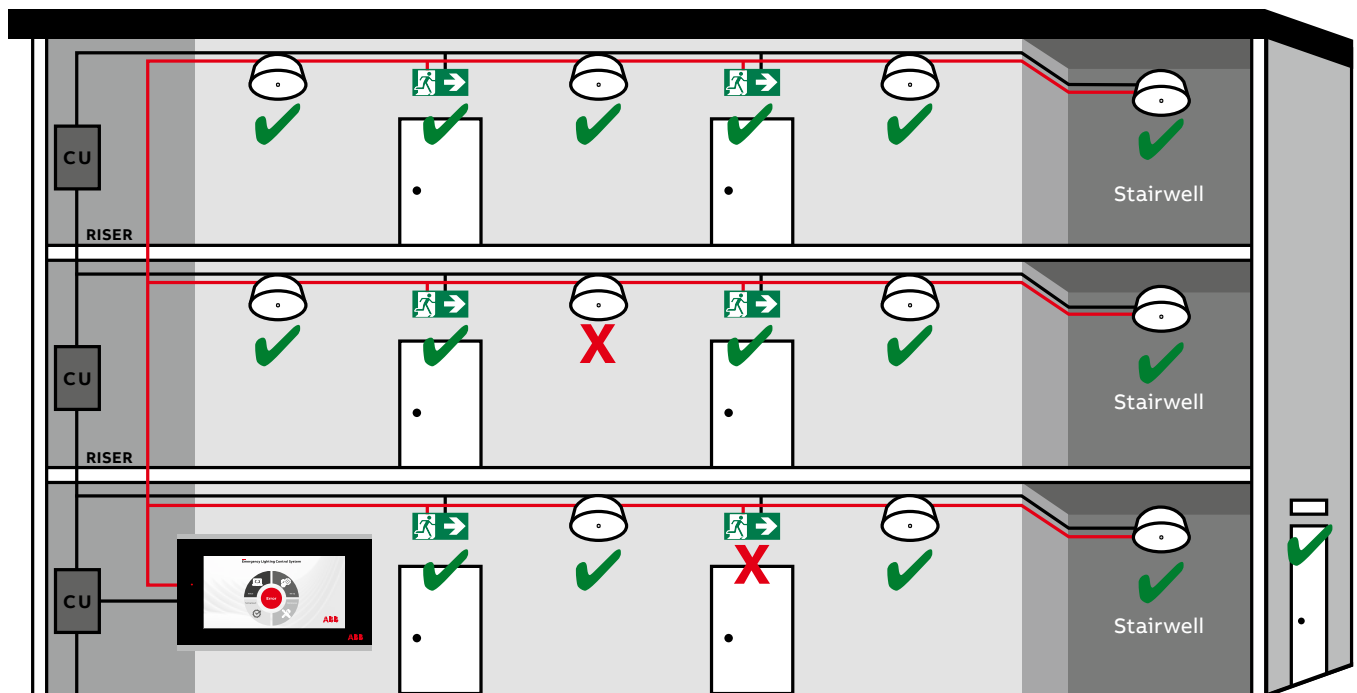
As DALI is a two-way communication protocol, the central control can send commands to the luminaire and they will send back information to the control system.

It's a mandatory requirement that building owners are taking steps to ensure that their emergency lighting installations are routinely tested, with detailed records maintained. The associated labour costs have resulted in the owners of many larger buildings or building complexes investing in automated centralised test systems.

This type of system has also become increasingly popular since changes to the fire regulations now place the legal responsibility for recording these testing procedures solely with the building owners.

The benefits of using DALI central test systems for emergency lighting applications are wide-ranging:

- Increased safety
- Reduced maintenance labour time
- Ongoing monitoring savings



— Power
— Dali bus

The emergency lighting package consists of:

- ABB luminaires: Exit signs and escape routes self-contained
- ABB control panel with emergency lighting function for test and monitoring solutions for up to 128 luminaires per panel.

DALI control unit (DCU)

Productivity & reliability



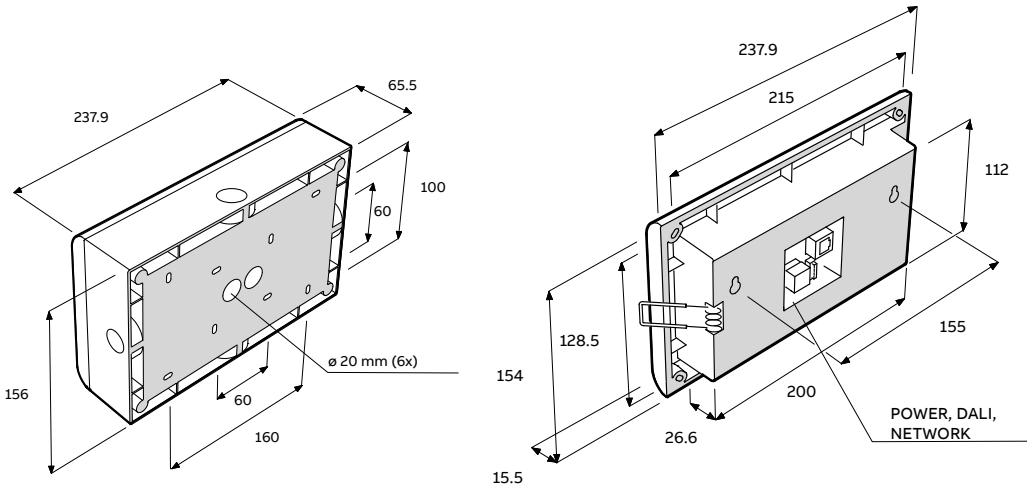
- DALI emergency lighting control panel
- Ensuring building occupant safety
 - Touch screen to control, test and monitor emergency lighting
 - Simple to group and easy to install



Control unit

Order code	Description	Input voltage	Lamp type	Power	Operation /	Environment	Weight
				consumption	duration (hrs)	temp. (°C)	
				(VA/W)			(kg)
ELDCS1/DALI	DALI emergency control unit	220-240 Vac, 50 Hz	N/A	6	N/A	0 - 50	1.1

Note. The manual, pre-commissioning documents, device location record sheet, test record sheet and download software for spreadsheet are available on the ABB low voltage website
DALI bus power supply 12V DC included



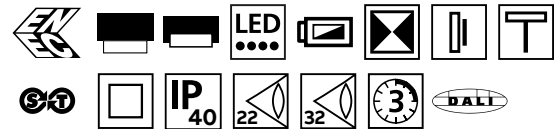
Guideway

Innovative & stylish



Escape route signalisation

- Compatible with DALI control unit to control, test & monitor emergency lighting
- Clearly visible in daylight - 500 cd/m²
- Uniform light distribution
- In harmony with interior spaces
- Frameless legend design



Luminaire

Order code	Description	Input voltage	Lamp type	Power consumption (VA/W)	Operation / duration (hrs)	Environment temp. (°C)	Weight (kg)
DAEGR3LS1-S22	REC LED SIGN M3 22M DALI	220-240 Vac, 50 Hz	LED strip 1.8W	4.2 / 4.2	M3/NM3	5 - 35	0.93
DAEGR3LS1-S32	REC LED SIGN M3 32M DALI	220-240 Vac, 50 Hz	LED strip 3.6W	6.0 / 6.0	M3/NM3	5 - 35	1.11
DAEG3LS1-S22	LED SIGN M3 22M DALI	220-240 Vac, 50 Hz	LED strip 1.8W	4.2 / 4.2	M3/NM3	5 - 35	1.11
DAEG3LS1-S32	LED SIGN M3 32M DALI	220-240 Vac, 50 Hz	LED strip 3.6W	6.0 / 6.0	M3/NM3	5 - 35	1.58

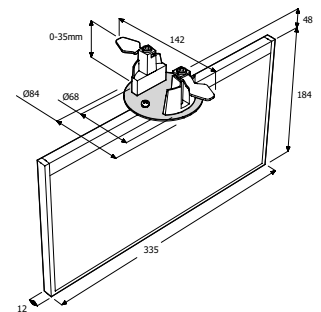
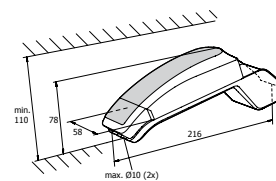
Includes back to wall mounting accessory as standard.
60 hrs charge at first commissioning, 24 hrs re-charge thereafter.
Maintained and non maintained

Single sided

Part No.	Legends
ISO 7010 legend format	
XEN2EG32	
XEN3EG32	
XEN6EG32	
XEN5EG32	

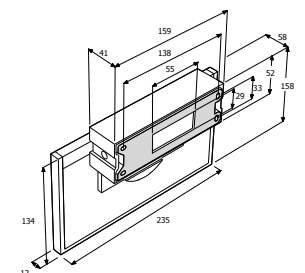
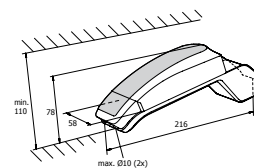
Flag mounted

Part No.	Legends
ISO 7010 legend format	
XEN602EG32	
XEN603EG32	
XEN606EG32	
XEN605EG32	



Accessories

Order code	Description	Colour
EG-T4SG	Cover discs, 2+2 self contained	
EG-T4EG	Cover discs, 2+2 slave	



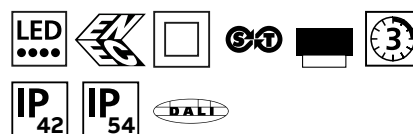
Serenga 2

Project covering & stylish



Escape route lighting

- Compatible with DALI control unit to control, test & monitor emergency lighting
- Injection moulded - high grade polycarbonate body and geartray of aluminium die cast
- Specially designed lens for optimised light distribution
- Modular, First-Fix installation



Luminaire

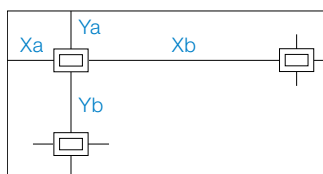
Order code	Description	Input voltage	Lamp type	Power consumption (VA/W)	Operation / duration (hrs)	Environment temp. (°C)	Weight (kg)
DASR2-DEA-M3	REC M3 DALI ESC-4MH WH	220-240 Vac, 50 Hz	2x LED 0.85W = 1,9W	4.74 / 4.0	M3/NM3	5 - 40	0.6 kg
DASR2-DAD-M3	REC M3 DALI OA-L4M WH	220-240 Vac, 50 Hz	2x LED 0.85W = 1,9W	4.74 / 4.0	M3/NM3	5 - 40	0.6 kg
DASR2-SEM3-A1	SFC M3 DALI ESC-L4M WH	220-240 Vac, 50 Hz	2 x LED 0.85W = 1.9W	4.74 / 4.0	M3/NM3	5 - 40	1.0
DASR2-SAM3-D1	SFC M3 DALI OA-L4M WH	220-240 Vac, 50 Hz	2 x LED 0.85W = 1.9W	4.74 / 4.0	M3/NM3	5 - 40	1.0

Interchangeable lenses are available.
Maintained and non maintained

Accessories

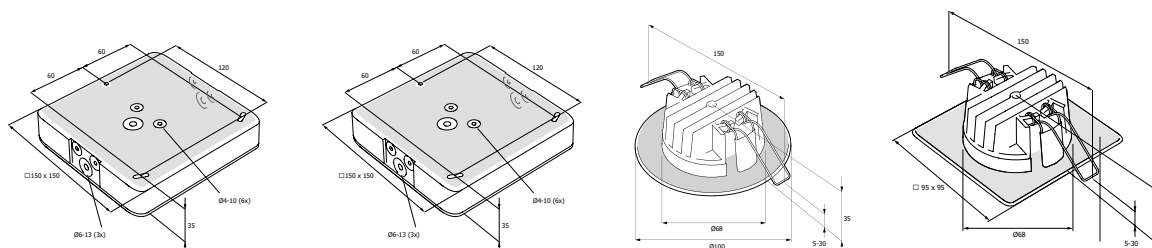
Order code	Description
SR2-CCAW	WH circular adaptor

Picture table



Spacing table

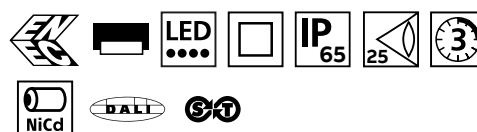
DASR2-DEA-M3						DASR2-DAD-M3						DASR2-SEM3-A1						DASR2-SAM3-D1					
h(m)	1.8	4.9	6.4	18.8		h(m)	3.5	7.8	3.5	7.8		h(m)	1.8	4.9	6.4	18.8		h(m)	3.5	7.8	3.5	7.8	
2.0	1.8	4.9	6.4	18.8		2.0	3.5	7.8	3.5	7.8		2.0	1.8	4.9	6.4	18.8		2.0	3.5	7.8	3.5	7.8	
2.5	1.3	5.3	6.4	19.4		2.5	4.3	9.4	4.3	9.4		2.5	1.3	5.3	6.4	19.4		2.5	4.3	9.4	4.3	9.4	
3.0	1.0	5.0	3.9	18.3		3.0	4.7	11.0	4.7	11.0		3.0	1.0	5.0	3.9	18.3		3.0	4.7	11.0	4.7	11.0	
3.5	0.9	3.9	3.6	16.6		3.5	4.4	12.2	4.4	12.2		3.5	0.9	3.9	3.6	16.6		3.5	4.4	12.2	4.4	12.2	
4.0	0.9	3.1	2.5	15.6		4.0	2.5	10.9	2.5	10.9		4.0	0.9	3.1	2.5	15.6		4.0	2.5	10.9	2.5	10.9	



Durable & high performance



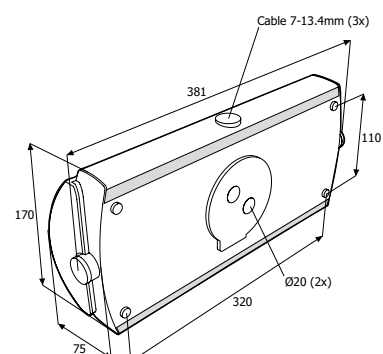
- Compatible with DALI control unit to control, test & monitor emergency lighting
- Attractive aluminium modular enclosure
- Clear polycarbonate broad delivery diffuser



Order code	Description	Input voltage	Lamp type	Power consumption (VA/W)	Operation / duration (hrs)	Environment temp. (°C)	Weight (kg)
DLOW3LS60	AQUALUX 3W LED DALI M3	220-240 Vac, 50 Hz	3W LED	9.9 / 5.1	M3/NM3	0 - 25	2.2

Part No.	Pictogram
XEN2W	
XEN3W	
XEN6W	
XEN5W	
XLF802W	
XLF803W	

Order code	Description
OW/BCM	Ceiling bracket, vertical mount
OW/BWA	Wall bracket, angled mount

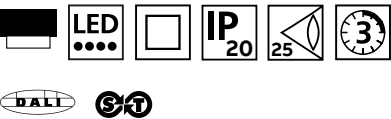


Ovano

Productivity & reliability



- Escape route signalisation
- Compatible with DALI control unit to control, test & monitor emergency lighting
 - Plug and play, maintained and non-maintained in one
 - Compact and decorative design

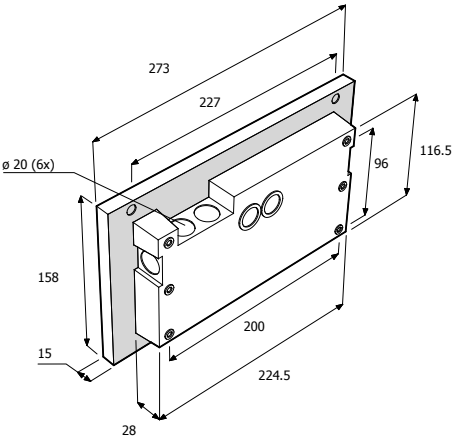


Luminaire

Order code	Description	Input voltage	Lamp type	Power consumption (VA/W)	Operation / duration (hrs)	Environment temp. (°C)	Weight (kg)
XT224SM/DALI*	Ovano XT224SM	220-240 Vac, 50 Hz	0.2W=2.8W	3.5	M3/NM3	-5 - 45	0.66

* Configurable pictograms included
Maintained and non maintained

Ensure 3cm clearance above product when wall mounting



Ovano

Productivity & reliability



Escape route signalisation

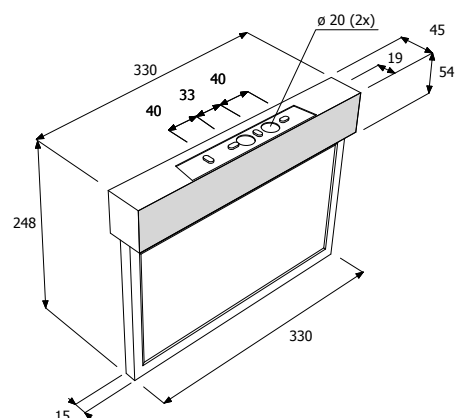
- Compatible with DALI control unit to control, test & monitor emergency lighting
- Plug and play, maintained and non-maintained in one
- Compact and decorative design



Luminaire

Order code	Description	Input voltage	Lamp type	Power consumption (VA/W)	Operation / duration (hrs)	Environment temp. (°C)	Weight (kg)
XT230RS/DALI*	Ovano XT230RS	220-240 Vac, 50 Hz	2x 1W LED	3.5	M3/NM3	-5 - 45	1.24

* Configurable pictograms included
Maintained and non maintained

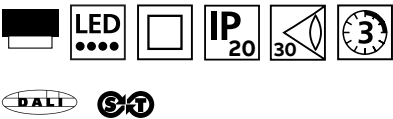


Ovano

Productivity & reliability



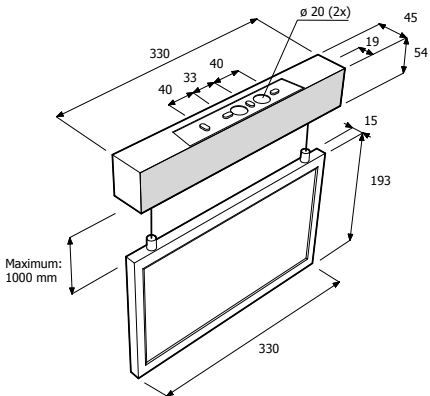
- Escape route signalisation
- Compatible with DALI control unit to control, test & monitor emergency lighting
 - Plug and play, maintained and non-maintained in one
 - Compact and decorative design



Luminaire

Order code	Description	Input voltage	Lamp type	Power consumption (VA/W)	Operation / duration (hrs)	Environment temp. (°C)	Weight (kg)
XT230H/DALI*	Ovano XT230H	220-240 Vac, 50 Hz	0.2W=2.8W	3.5	M3/NM3	-5 - 45	1.27

* Configurable pictograms included
Maintained and non maintained



Ovano

Productivity & reliability



XT200M3H



XT201M3H

Escape route lighting

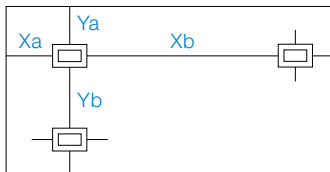
- Compatible with DALI control unit to control, test & monitor emergency lighting
- Plug and play, maintained and non-maintained in one
- Compact and decorative design



Luminaire

Order code	Description	Input voltage	Lamp type	Power consumption (VA/W)	Operation / duration (hrs)	Environment temp. (°C)	Weight (kg)
XT200M3H/DALI	Ovano XT200M3H	220-240 Vac, 50 Hz		5	M3/NM3	0 - 40	0.35
XT201M3H/DALI	Ovano XT201M3H	220-240 Vac, 50 Hz		5	M3/NM3	0 - 25	0.35
Maintained and non maintained							

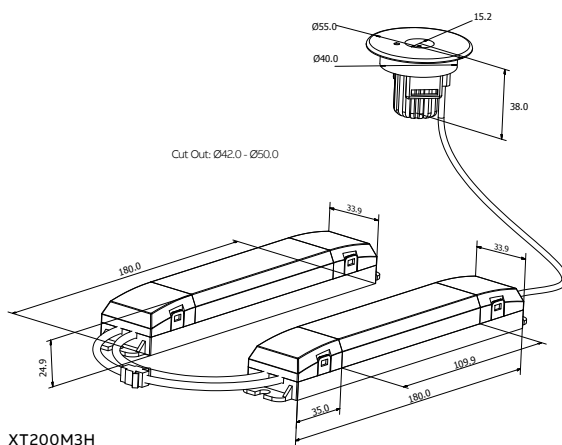
Picture table



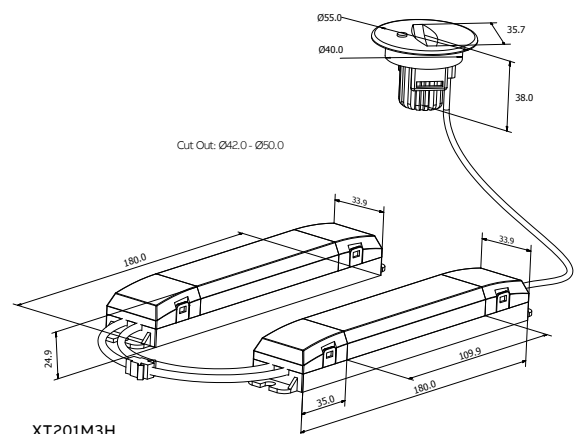
Spacing table

XT200M3H					
h(m)					
2.0	3.11	7.53	7.50	3.29	
2.5	3.35	8.34	8.37	3.49	
3.0	3.48	8.98	8.93	3.62	
3.5	3.51	9.47	9.37	3.68	
4.0	3.47	9.79	9.70	3.65	

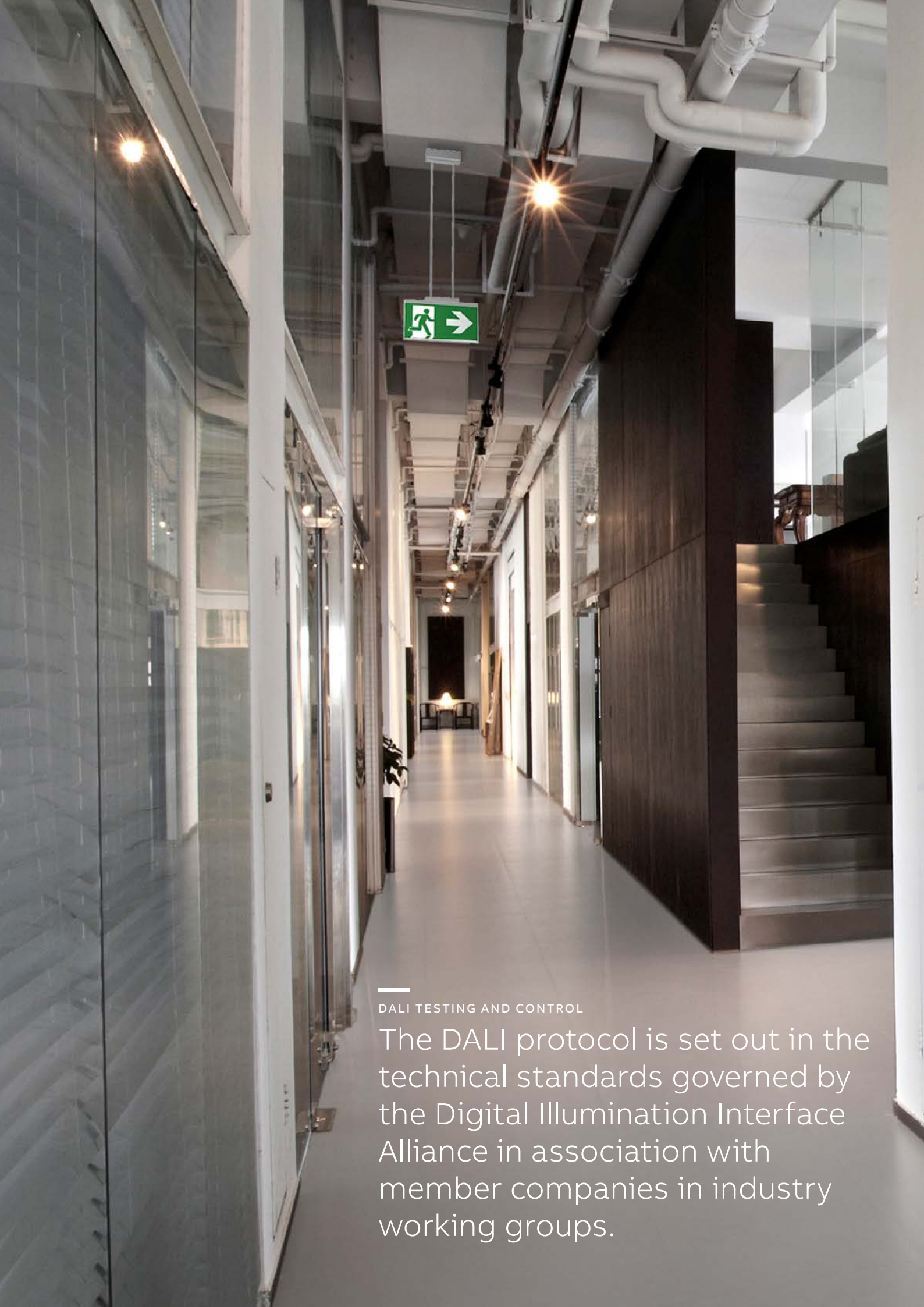
XT201M3H				
h(m)				
2.0	3.24	7.98	5.04	2.05
2.5	3.56	8.71	5.38	2.34
3.0	3.77	9.35	5.87	2.60
3.5	3.90	9.98	6.48	2.80
4.0	3.99	10.43	7.02	2.94



XT200M3H



XT201M3H



DALI TESTING AND CONTROL

The DALI protocol is set out in the technical standards governed by the Digital Illumination Interface Alliance in association with member companies in industry working groups.

DALI

What is DALI?

DALI (Digital Addressable Lighting Interface) is a data protocol and transport mechanism that was jointly developed and specified by several manufacturers of lighting equipment.

It is essentially a network connected by a pair of cables and powered by a power supply. The common platform of DALI enables equipment from different manufacturers to be connected together. ABB's DALI is designed to work with all DALI-compliant equipment displaying the DALI logo.

Put simply, DALI (digital addressable lighting interface) is a two-way communication system that brings digital technology to lighting.

An international standard for communication, DALI allows individual ballasts to "talk" to the user and allows the user to "talk" back via DALI controllers.



DALI is a testing and control system that offers both flexibility and reliability.

Bus wiring

In terms of wiring a DALI system also includes the bus wires that are used to connect together the DALI terminals of the various devices in the system.

- Standard 2-core cable (1.5mm²)
- 5-core cable possible to enable power and data
- Polarity free & free wiring topology
- maximum 64 devices per subnet (Hub/Routers)
- maximum 300m cabling
- maximum 250mA device consumption

Control devices

Control devices can provide information to other control devices and can send commands to control gear. Input devices are a type or a part of a control device that provides some information. Application controllers are also a type or a part of a control device and are the decision makers in a DALI system – for example, they can send commands to control gear to modify the lighting or test an emergency lighting system.

Bus power supplies

At least one bus power supply must be present in a DALI system. This is necessary to allow both communications on the bus, as well as to power any bus-powered devices. The bus power supply does not need to be a separate unit – it could be part of another device such as an DALI control unit or a KNX DALI gateway.

ABB has 3 different power supply options. The central control DALI Touch screen panel, the Elkey power supply or the KNX DALI gateway. Only one power supply is needed in each network.

Control gear

Control gear usually contains the power control circuit to drive lamps, or some other type of output such as on/off switching.

DALI emergency lighting

Testing & monitoring

ABB DALI emergency lighting offers automatic test functions from either a central controller or from the luminaire itself. This ensures you will always know the status of your emergency fitting. Effective monitoring helps to ensure the safety of building occupants and give building owners the peace of mind they require.

— 01 DALI emergency lighting and control system - Normal

— 02 DALI emergency lighting and control system - Error detected

Automatic testing & monitoring

Automatic monitoring includes the status of battery charging and the status of the main power supply. Central testing includes the current battery charge condition, functional tests and duration tests. Test frequencies can be adjusted to meet the requirements of the building or the local regulations. Testing periods can vary from weekly to monthly in the case of function tests, or annually for duration tests.

Function test

A function test that simulates a mains failure and checks the operation of the emergency light from the battery supply. If there is a failure during a function test, the local indicator LED changes its status on the luminaire.

Duration test

A duration test simulates a power failure and checks the operation of the emergency light from the battery supply for the rated duration of the product. Duration tests can be one, three hours or more depending on the local regulations. If there is a failure during a duration test, the local indicator LED alerts you

to a problem or, in the case of a system monitored from a central location, the emergency lighting DALI control unit (DCU) will alert by showing an error message. As with all central test systems that require annual duration testing, this is only started after the battery has had an initial uninterrupted 24 hour+ charge period.

Local testing

Function and duration tests are initiated by the emergency light fitting. It performs automatic testing according to the locally stored settings.

Central testing

Function and duration tests are initiated by the DALI control unit and displays results on the screen.

Switching

Maintained luminaires can be switched and grouped.

Emergency lighting and control unit



01



02

ABB DALI emergency lighting control unit

The ABB DALI emergency lighting control system provides a user-friendly touch screen panel that can control, monitor and perform regularly scheduled tests. The standard function and duration test scan be performed at regular or planned intervals.

01 Dali control unit home Screen

02 Dali control unit descriptive screens

03 Dali control unit spreadsheet

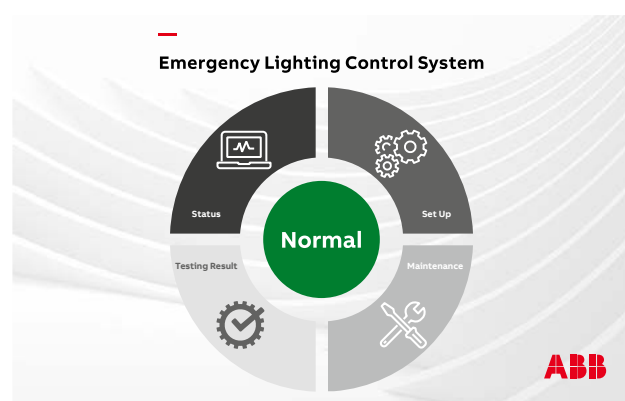
Each control unit can control and monitor up to 2 lines of DALI (128 maximum devices). Additional touch screen panels need to be added to control more than 128 luminaires. Test results and logs from each panel need to be transferred to an excel file to a computer LAN and then printed or stored for later reference.

- 2 Built-in DALI lines allow for 128 DALI luminaires
- Function and duration tests conducted in accordance with local regulations
- 7" Colour touch screen
- Smart graphical interface for client operation
- Easy, system driven, DALI addressing and grouping
- Individual indication of groups and devices
- Calendar-controlled function and service life test

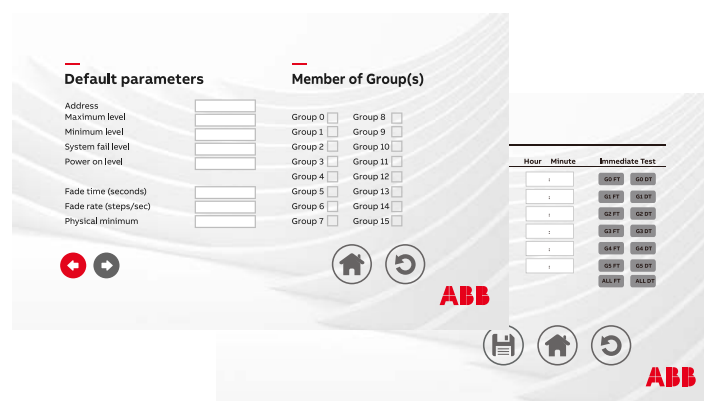
- Easily read system status
- Simple download of test report to a PC

The DALI control unit has easy-to-use descriptive screens that lead the system user screen by screen. The luminaire on the DALI network are found after initialisation and are displayed on the device with a list of the addresses. Each luminaire can be given a name and location so it can be easily located in the event of a fault. Faults are clearly displayed on the home screen.

The product features an ethernet port, which allows for the download of a spreadsheet that can prove the status of the emergency lighting system.



01



02

DALI Address	Name	Location	Test Date	Time (min)	Type	Result
A0	Exit sign	Reception	28/10/17	10:39	DT	OK
A1	Exit sign	Entry Foyer001	22/10/17	09:22	DT	OK
A2	Exit sign	Entry Foyer002	28/10/17	10:39	DT	NUL
A3	Escape Lighting	Entry Foyer003	28/10/17	10:39	DT	OK
A4	Exit sign	Corridor 1	28/10/17	10:39	DT	OK
A5	Exit sign	Corridor 2	28/10/17	10:39	DT	OK
A6	Exit sign	Corridor 3	28/10/17	10:39	DT	OK
A7	Exit sign	Corridor 4	22/10/17	09:22	DT	OK

The table is displayed on a screen with navigation icons (home, back, forward) and the ABB logo at the bottom.

03

DALI LAN Connection

The DALI control Unit (DCU) can be connected to the user PC or laptop designated for access to the emergency lighting central control via the ethernet port and through a network switch. In a managed network switch, the cables from the DALI control Unit (DCU) and the access user PC or laptop can be passed through the main network switch and combined with good internal protection used to prevent and reduce vulnerability whilst on the LAN network.

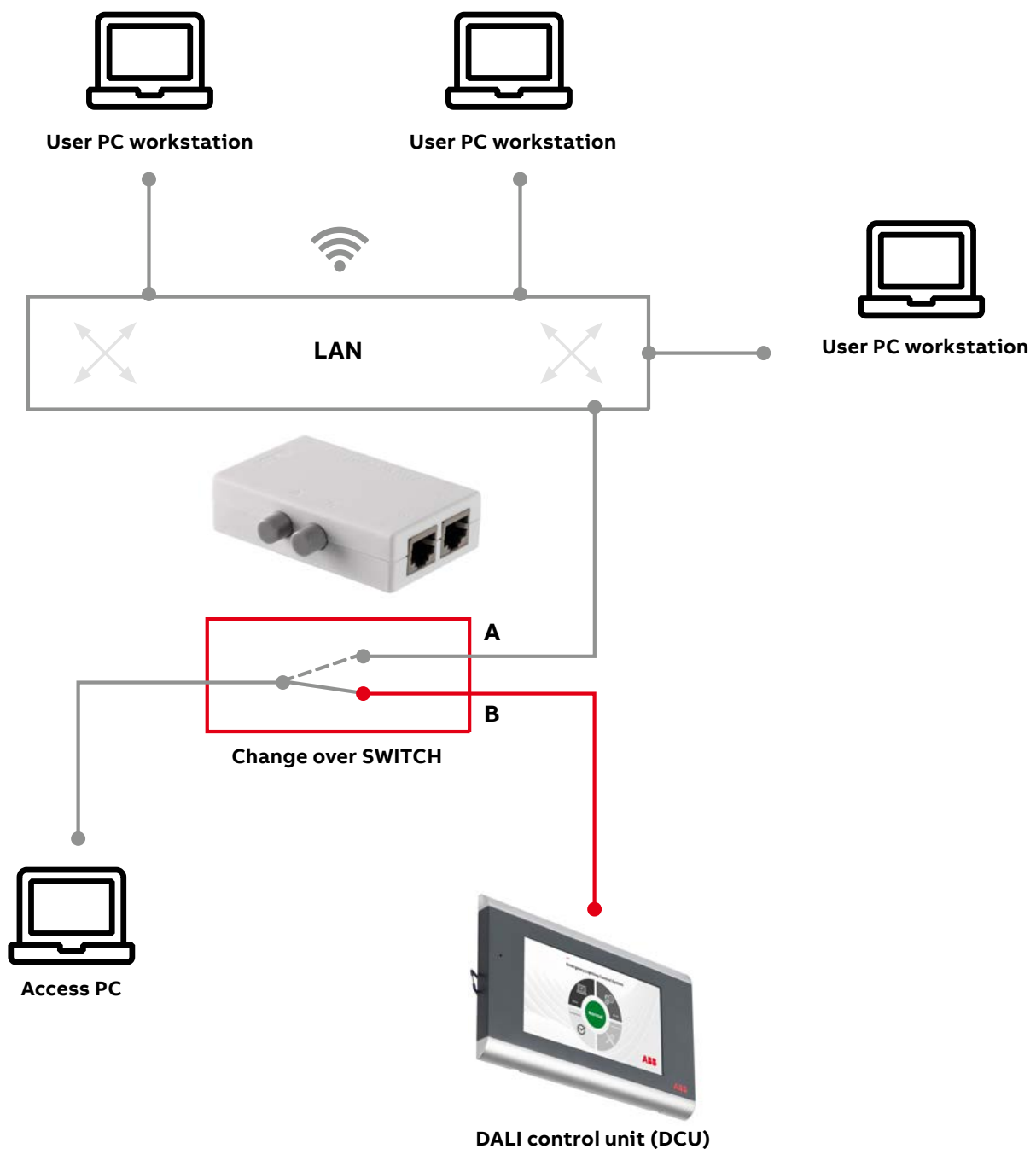


ABB DALI Gateways

ABB DALI Gateways provide an interface DALI (Digital Addressable Lighting Interface) and KNX installations. This allows ABB DALI products to work with ABB KNX products, providing a comprehensive smart building solution.

01 DALI-Gateway
DG/S 1.64.1.1

02 DALI-Gateway
DG/S 2.64.1.1

03 Example of an ABB
DALI gateway in a KNX/
DALI installation with
emergency lighting.

DALI-Gateway DG/S 1.64.1.1

Flexibility by controlling light individually per device or in groups.

The DG/S 1.64.1.1 DALI-Gateway (1fold) can install up to 64 DALI devices both via 16 flexible DALI (red lined group) and KNX lighting groups (grey dotted lined group), each with one or more DALI participants. Control and monitoring via KNX. Control and status feedback can also be carried out via Broadcast. 16 independent lighting scenes are available.

DALI-Gateway DG/S 2.64.1.1

Maximum flexibility combined with the highest of number of DALI participants and groups, to meet all customer needs.

The DG/S 2.64.1.1 DALI-Gateway (2fold) can install up to 2 x 64 DALI devices both via 2 x 16 flexible DALI (red lined group) and KNX lighting groups (grey dotted lined group), each with one or more DALI participants. Control and monitoring via KNX. Control and status feedback can also be carried out via Broadcast. 2 x 16 independent lighting scenes are available.

Both KNX DALI Gateways act as a gateway between DALI self-contained emergency lighting systems and a KNX building automation system. This allows DALI-based emergency lighting complying with IEC 62386-202 to be controlled and monitored with a KNX control panel or visualization.

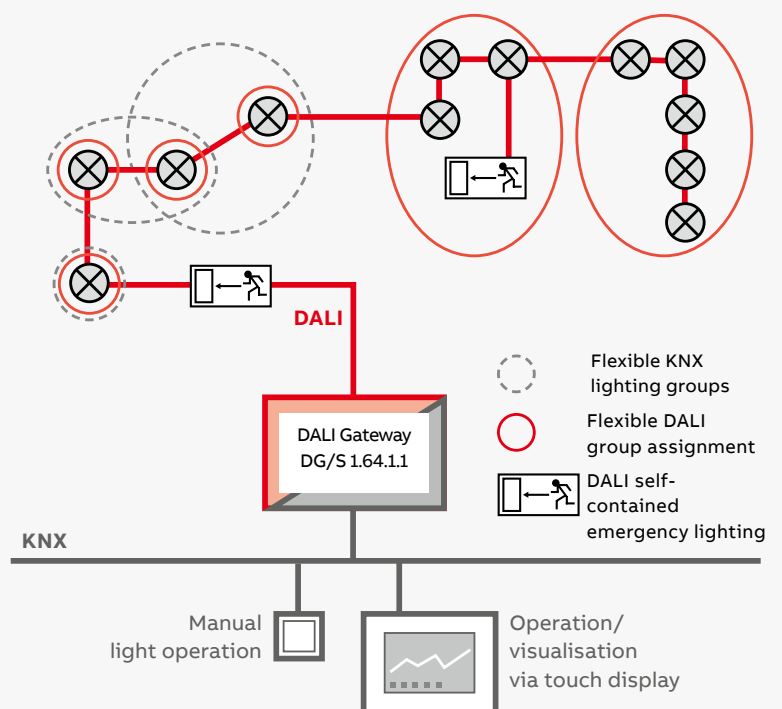


01



02

03



DALI-Gateway DG/S 2.64.1.1 can run 2 x 64 DALI devices

Elkay

The easyDALi System

For controlling standard lighting or self-contained emergency lighting, Elkay's easyDALi solution has been designed to make the installation and set-up of an intelligent lighting control system simple, easy and accessible. Through its ease of installation and commissioning, the need for expensive commissioning tools is removed, reducing project costs and other potential overheads.

- 01 DALI multi-Purpose Box
- 02 DALI power Supply Unit
- 03 DALI easyDALi PIR
- 04 DALI remote Controller

Lighting controls, particularly in commercial buildings, can form a key aspect in the drive to reduce energy consumption and carbon emissions, while reducing energy spend. Elkay easyDALi system helps to reduce these lighting costs.

Elkay has achieved this by making the first range of sensors that can automatically configure DALI lighting ballasts, as well as the more commonly used broadcast mode.

In a brand new 'out of the box' installation of new DALI luminaires and with a new Elkay easyDALi PIR, you can simply wire the lighting, the power supply and the PIR together with the multi-purpose box and simply accept the default settings of...

- Broadcast mode
- Timing
- Daylight Harvesting

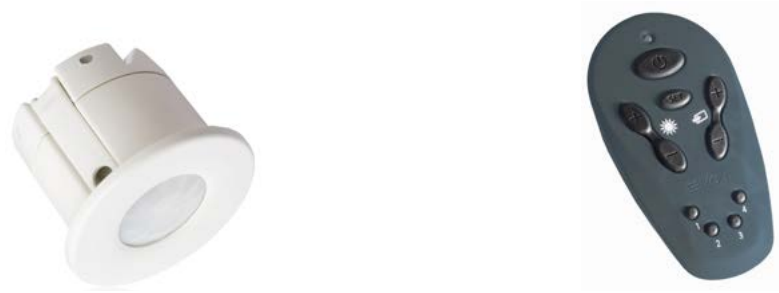
...and the PIR, with just a few pushes of the remotecontrol, will find and address all luminaire control gear on the network and the installation is complete.

For facility managers and commercial building owners, Elkay's easyDALi system now provides inexpensive control and flexible management of the lighting plan, without the expense of engineers, at the start and during the lifetime of the installation.

A DALI lighting control system can be used to cover a small area of luminaires or can be connected to other DALI devices to create a much larger system. Elkay's easyDALi system can be used to configure up to 64 ballasts or used as part of a much wider overall lighting strategy, connecting many hundreds of separate DALI networks on different floors of a building for example, forming them into a coherent building lighting control system.



ABB Elkay



A DALI presence, absence and daylight harvesting PIR detector all rolled into one. With the following key features

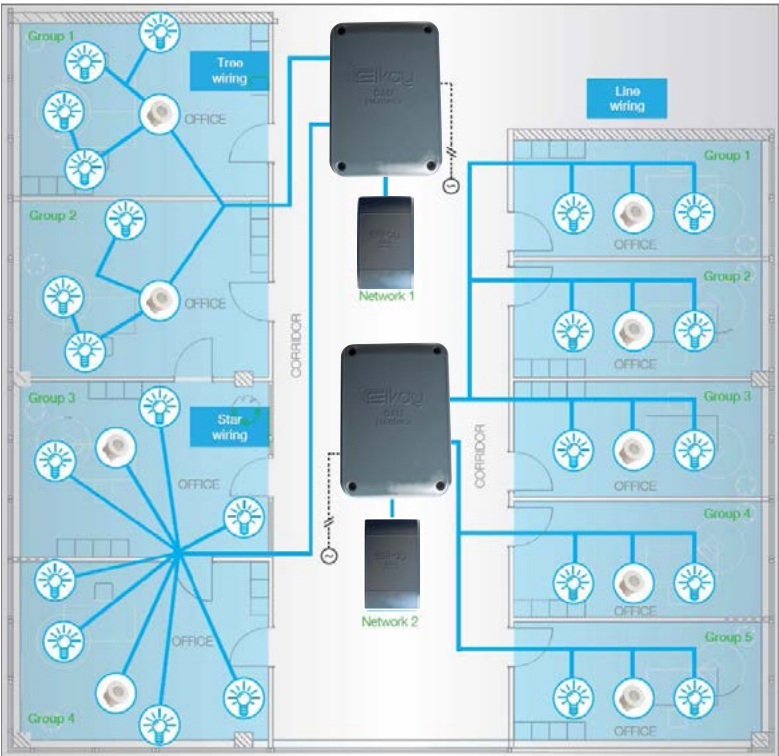
- Room timing options
- Corridor timing options
- Simple setup without commissioning tools
- Broadcast and 15 group options
- Lux and sensitivity control
- Walk test
- 360-degree detection with 7m range
- Coloured feedback LEDs

A unique dual purpose remote control that controls the Elkay easyDALi PIR. Installer modes to adjust the settings and end user modes for day-to-day operation.

- Override On/off
- Brightness and lux adjustment
- 16 Scene selections
- 25 percent, 50 percent and 100 percent quick brightness
- Feedback LEDs

Part No.	Type	Finish	GID
374-DMBOX	DALI Multi-Purpose Box	Grey	7TCA299030R0033
374-PSU	DALI Power Supply Unit	Grey	7TCA299030R0035
374-CMPIRDALI	easyDALi PIR	White	7TCA299030R0032
374-DREM	easyDALi Remote Control	Grey	7TCA299030R0034

05 DALI system network example



Standards

ABB is a member of the DiiA (Digital Illumination Interface Alliance) which is an organisation dedicated to the following aims and objectives:

- To define, standardize, launch and maintain a testing, certification and logo-licensing program for digital addressable lighting interface (DALI) functionality, as specified in the IEC 62386 family of standards.
- To enable continuous improvements in multi-vendor system interoperability.
- To protect and increase the value of this technology and the certification program, for the industry and our customers.
- To accelerate the development of new functionality beyond the current IEC 62386.

Standards

The standards dictate that emergency lighting systems must routinely inspect, monitor and record tests completed on the networks. The results of these tests must be maintained. If central testing is used, the results of a monthly short duration test and an annual full-rated duration test should be recorded.



Certifications

EN 62034:2012

Automatic Test Systems for Battery Powered Emergency Escape Lighting

EN 62386-101:2014

Digital addressable lighting interface - Part 101: General requirements - System components

EN 62386-102:2014

Digital addressable lighting interface - Part 102: General requirements - Control gear

EN 62386-202 Ed. 1

Digital addressable lighting interface - Part 202: Self-contained emergency lighting

EN 60598-1:2015

Luminaires. General requirements and tests

EN 60598-2-22 ed4.0 (2014) -

Luminaires - Part 2-22: Particular requirements - Luminaires for emergency luminaires

EN 61347-1:2015

Lamp control gear. General and Safety requirements

EN 61347-2-13 ed2.0(2014)

Lamp control gear - Part2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED-modules

EN 61547 ed2.0 (2009)

Equipment for general lighting purposes - EMC immunity requirements

EN 62031 ed1.2 (2014)

LED modules for general lighting - Safety specifications

EN 55015:2013+A1:2015 (EMC)

Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment

EN 61000

Electromagnetic compatibility (EMC)



Summary

Whether you are planning, installing, managing or renewing emergency lighting, our products, systems and services always offer you smart, state-of-the art, highly user-friendly solutions.

Optimum Interface

The ABB emergency lighting DALI control unit is a user-friendly touch screen device that controls and continuously monitors the emergency luminaires within a building. The device continuously monitors and alerts the user of any faults and their location. The user can set up automatically regular weekly or monthly tests as well as duration tests.

This test information is stored in the form of a spreadsheet that can be easily accessed via an ethernet cable to a laptop or PC.

- User friendly
- Touch screen
- Continuous monitoring
- Central testing
- Status reports

Ease of Installation

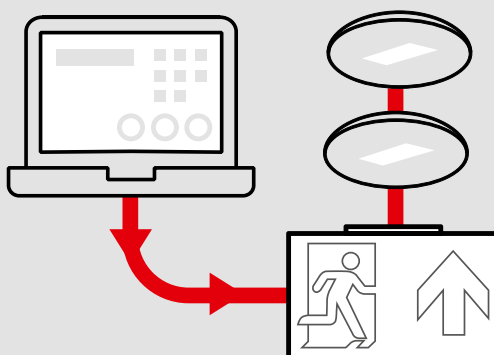
Our DALI emergency lighting products are simple, quick and easy to install. Users can utilise standard DALI commands with user-friendly installation to group luminaires into zones to provide safe exit and escape routes.

With the option of a central control system with simple connections and a user-friendly touch screen that ensures a building's safety will not be compromised.

- User friendly
- Touch screen
- Simple installation
- Centralised control

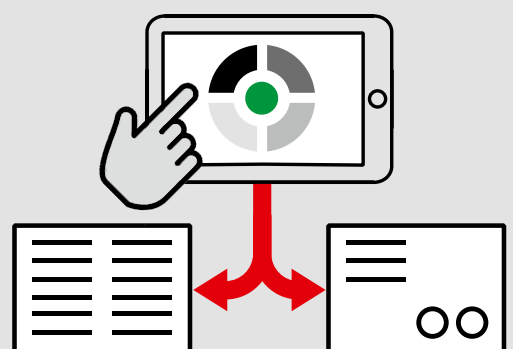
DALI Optimum interface

Touch screen to control, test & monitor emergency lighting



DALI Ease of installation

Simple to group and easy to install

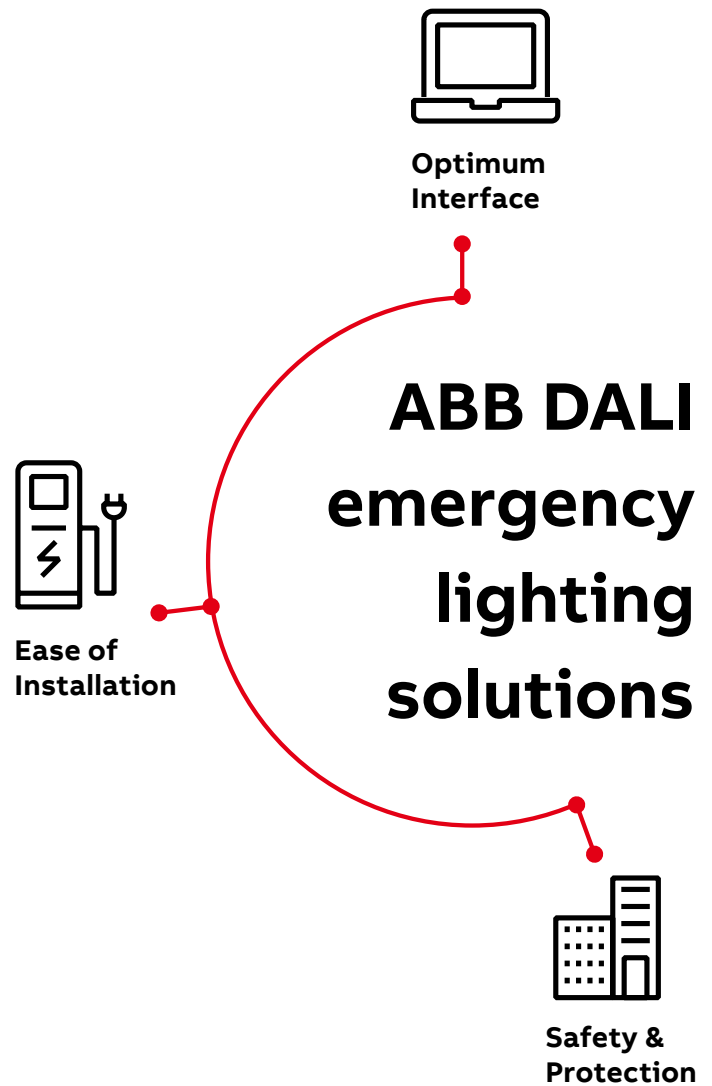


Safety & Protection

The ABB DALI emergency lighting range defines the safety of buildings and premises by offering either full control from a centralised device or with auto test functions on individual luminaires. The luminaires can be manually tested or tested at set and programmed intervals for full peace of mind. This type of monitoring will ensure that the safety of the building's occupants cannot be compromised with permanent records stored in a spreadsheet format.

DALI emergency lighting safety solutions to ensure:

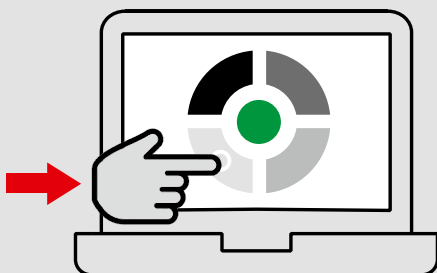
- Safety
- Control
- Monitoring
- Test reports
- Luminaire status



DALI

Safety & protection

Ensuring building occupant safety



DALI is a cost effective solution. It lowers maintenance costs in the long run and is easy to commission.

Legend & GID code reference



Tested and certified by an independent European certification agency such as DEKRA



Surface mounted luminaire



Recess mounted luminaire



Product comes with an LED light source



Self-contained: in case of power failure, the luminaire is battery powered



Maintained / non maintained luminaire



Rear plate



Suspension kit



Indicates ingress protection class (IP value)



Classification for the degree of protection provided by enclosures against external mechanical impacts



Indicates the viewing distance of the (illuminated) pictogram in metres



3 hours autonomy (battery-powered light operating time)



DALI compatible product



NiCd Battery



Self-Test product



Insulation class II. This luminaire must not be earthed

GID Code reference

Order code	GID Code	Page No.
ELDCS1/DALI	7TCA091720R0151	10
DAEGR3LS1-S22	7TCA091180R0340	11
DAEGR3LS1-S32	7TCA091180R0341	11
DAEG3LS1-S22	7TCA091180R0338	11
DAEG3LS1-S32	7TCA091180R0339	11
DASR2-DEA-M3	7TCA091180R0343	12
DASR2-DAD-M3	7TCA091180R0342	12
DASR2-SEM3-A1	7TCA091180R0345	12
DASR2-SAM3-D1	7TCA091180R0344	12
DLOW3LS60	7TCA091180R0346	13
XT224SM/DALI*	7TCA091720R0156	14
XT230RS/DALI*	7TCA091720R0155	15
XT230H/DALI*	7TCA091720R0154	16
XT200M3H/DALI	7TCA091720R0153	17
XT201M3H/DALI	7TCA091720R0152	17

Accessories GID Code reference

Order code	GID Code	Page No.
XEN2EG32	7TCA091350R4007	11
XEN3EG32	7TCA091350R4010	11
XEN6EG32	7TCA091350R4009	11
XEN5EG32	7TCA091350R4008	11
XEN602EG32	7TCA091350R4047	11
XEN603EG32	7TCA091350R4049	11
XEN606EG32	7TCA091350R4052	11
XEN605EG32	7TCA091350R4053	11
EG-T4SG	7TCA091360R0939	11
EG-T4VG	7TCA091360R0943	11
SR2-CCAW	7TCA091360R0880	12
XEN2W	7TCA091350R3509	13
XEN3W	7TCA091350R3510	13
XEN6W	7TCA091350R3512	13
XEN5W	7TCA091350R3511	13
XLF802W	7TCA091350R3526	13
XLF803W	7TCA091350R3527	13
OW/BCM	7TCA091360R0735	13
OW/BWA	7TCA091360R0737	13

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