Lighting Control System for Indoor Applications

LiCS INDOOR

Blu2Light

EXTENDER 64

EXTENDER 64

To extend the Blu2Light system

The Extender 64 for DALI systems can only be used in connection with a DALI controller.

As a DALI full duplex repeater, the Extender 64 serves the purpose of lengthening DALI lines within a DALI system with up to 64 addresses. However, a maximum of three Extender 64 units can be connected per DALI system. Furthermore, the Extender 64 may be used only with control gear approved by Vossloh-Schwabe.

The Extender 64 has a DALI bus supply on the output side, allowing connection of the maximum length of the DALI bus again in accordance with the standard.

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For larger applications, the Extender 64 also serves as a power supply for existing DALI applications to make them Blu2Light-enabled.

Extender 64

To extend the Blu2Light system

As a DALI full duplex repeater, the Extender 64 serves the purpose of lengthening DALI lines within a DALI system with up to 64 addresses.

The Extender 64 for DALI systems can only be used in combination with a DALI controller.

Technical notes

Configuration interface: via a DALI controller
Ambient temperature t_a: 0 to 50 °C
Max. casing temperature t_c: 65 °C
Screw terminals: 0.75–2.5 mm²
Degree of protection: IP20, Protection class II
RFI-suppressed

Connections

Mains connection: 220–240 V AC/DC,
0/50–60 Hz
Max. power consumption: 6.5 W
For DALI signals in acc. with IEC 62386
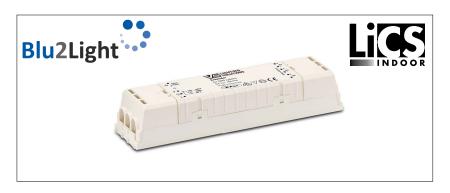DALI current consumption: 2 mA
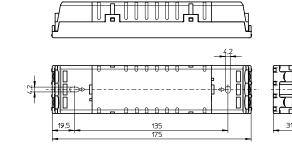1 DALI bus to 3 terminal pairs:
current on the DALI bus:

$I_{POWER SUPPLY GUARANTEED}$= 200 mA
$I_{POWER SUPPLY MAXIMUM}$= 250 mA
(see the respective data sheet for current consumption values of the individual components) As a standard DALI bus is not SELV-compliant, the DALI cable must be rated for mains voltage. The DALI bus features reversible electronic overload and short-circuit protection.

Product guarantee

• 5 years
• The conditions for the Product Guarantee of the Vossloh-Schwabe Group shall apply as published on our homepage (www.vossloh-schwabe.com). We will be happy to send you these conditions upon request.

50 000 hours Min. Service Lifetime

Guarantee **5** years

Extender 64 Functions

Range extension from 300 m
by a further 300 m to a total of 600 m.
Power supply for existing DALI applications to make them Blu2Light-enabled.

Extender 64

Full duplex system extension
Dimensions (LxWxH): 175x42x31.5 mm
Weight: 150 g
Ref. No.: 186667

Lighting Control System for Indoor Applications

General safety information

- LiCS products may only be installed and commissioned by authorised and fully qualified staff.
- These instructions must be carefully read before installing and commissioning the system, as this is the only way to ensure safe and correct handling.
- Before any work is carried out on the equipment, it must be disconnected from the mains.
- All valid safety and accident-prevention regulations must be observed.
- The products should never be inexpertly opened as this poses lethal danger due to electrical shock. Repairs may only be undertaken by the manufacturer.
- On no account may the DALI control line be used to carry mains voltage or any other external voltage as this can destroy individual system components.
- Please refer to the manual at **www.vossloh-schwabe.com** for exact instructions on how to configure the system using the Extender 64.

Extender 64

Installation
- Independent installation, e.g. in false ceilings
- Easy and time-saving installation due to end caps that snap into place without needing tools
- Clearance: min. 0.1 m to walls, ceilings, insulation and to other electronic devices; min. 0.25 m to sources of heat (e.g. lamps)
- Surface: solid, must not permit the Extender 64 to sink into insulation material
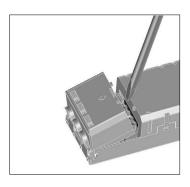- Fastening: using 4-mm screws

Installation instructions

- Cross-section of primary/secondary conductor: 0.75–2.5 mm²
- Cable preparation (see right)
- Screw terminals: max. tightening torque = 0.4 Nm
- Length of the secondary bus cable: max. 300 m
- A standard DALI bus only features basic insulation. All DALI cables must be rated for mains voltage. The power supply and the DALI line can be laid in a single cable (max. 100 m).
- Mains power cables and DALI cables should not be laid directly parallel to lamp cables (min. clearance = 0.25 m).
- A maximum of 64 DALI operating devices in total can be connected.
- Sensors must not be installed on the secondary side.
- A maximum of three Extender 64 units can be connected per DALI system.

Additional information

- The Extender 64 can only be operated if connected to a DALI control unit. Please refer to the respective operating instructions for information on the control unit.
- Three electrically connected DALI outputs make it easier to connect DALI ballasts. A maximum of 64 DALI operating devices in total can be connected.
- The outputs of several Extenders 64 must not be connected with each other.
- To ensure safe operation of the Extender 64, the maximum casing temperature at the measuring point (t_c) must not be exceeded.
- When using the Extender 64, the total number of 64 DALI addresses within the system may not be exceeded.
- The range extension achievable with the Extender 64 only applies in connection with VS DALI ballasts.
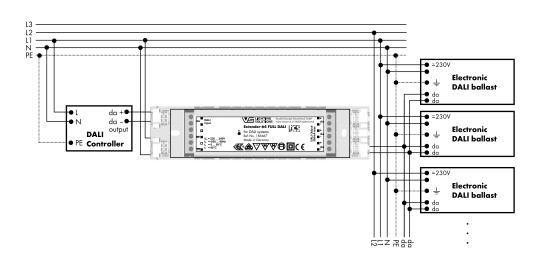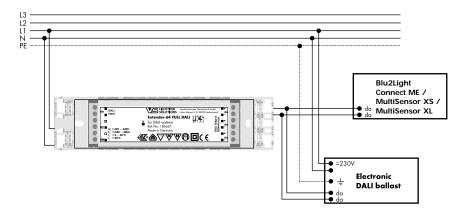
The values contained in this datasheet can change due to technical innovations. Any such changes will be made without separate notification.

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Lighting Control System for Indoor Applications

Circuit diagram Extender 64 in the Light Controller IP system

Circuit diagram Extender 64 in the Blu2Light-System

Technical details

	Extender 64
Ref. No.	186667
Supply voltage	220–240 V AC/DC, 0/50–60 Hz
Power consumption	6.5 W
Control input	DALI in. acc. with IEC 62386-102/-201
DALI output	max. 64 pcs. DALI operating devices or max. 200 mA (expandable with the Extender 64)
Ambient temperature t_a	0 to 50 °C
Casing temperature t_c	max. 65 °C
Degree of protection	IP20
Protection class	II
Weight	150 g
CE requirements	EMC in acc. with EN 61547, RFI in acc. with EN 55015, Safety in acc. with EN 61347-2-11

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