Technical datasheet

BoxLED® Indoor L Plus G1



Highlights

- Uniform illumination of almost all kinds and sizes of light boxes
- Flexible module chain comprising 16 modules
- Equipped with lenses for uniform light distribution with minimum number of modules
- > 50.000h lifespan
- Optimized for indoor installations

Application

- Indoor signage and illuminated advertising
- Backlighting of single- and double-sided light boxes (side lighting technology).

Тес	hnica	l data

Product	Color	No. of LED-modules per chain	No. of LEDs per module	Voltage [V DC]*	Power chain / module [W]*	Radiance Angle [°]*	Color Temp [K]*	Lum. Flux chain / module [lm]*
BXI-L-PL 865 G1	Cool Daylight	16	24	24	96 / 6.0	12 x 70	6500 K	10200 / 638
BXI-L-PL 840 G1	Neutral white	16	24	24	96 / 6.0	12 x 70	4000 K	10200 / 638
BXI-L-PL 830 G1	Warm white	16	24	24	96 / 6.0	12 x 70	3000 K	9600 / 600

*) Due to the special conditions of the manufacturing processes of LED the typical data of technical parameters can only reflect statistical figures and do not necessarily correspond to the actual parameters of each single product which could differ from the typical data.

Technical concept

- LED chain comprising 16 LED modules connected by flexible cables
- Each LED module contains 24 LEDs
- > LED-module distance max. is 360mm
- 50.000 hrs lifespan (L70/B50) at Tc 60°C
- Optimal operation on OPTOTRONIC® 24V power supplies
- Dimmable operation with OPTOTRONIC ® 24V power supplies DIM
- Module can be mounted with Mounting system BX-MP













Minimum / Maximum Ratings

Product	Operating Temperature at Tc-Point [°C]*	Storage Temperature [°C]*	Voltage Range [V dc]*	Reverse Voltage [V dc]*
BXI-L-PL 865 G1	-2560	-25 +85	23 25	25
BXI-L-PL 840 G1	-2560	-25 +85	23 25	25
BXI-L-PL 830 G1	-2560	-25 +85	23 25	25

*) Exceeding maximum ratings for operating and storage temperature will reduce expected life time or destroy the LED Modules. Exceeding maximum ratings for operating voltage will cause hazardous overload and will likely destroy the LED Modules. The temperature of the LED modules must be measured at the Tc-point according to EN60598-1 in a thermally constant status with a temperature sensor or a temperature sensitive label.

Dimensions



Light Distribution





Safety Information

- > The LED module itself and all its components must not be mechanically stressed.
- > Assembly must not damage or destroy conducting paths on the circuit board.
- > To avoid mechanical damage, the LED modules should be attached securely to the intended substrate. Heavy vibration
- should be avoided.

In order to drive OSRAM LED-Modules safely, it is absolutely necessary to operate them with an electronically stabilized power supply protecting against short circuits, overload and overheating. To also ease the luminaire/installation approval, electronic control gear for LED or LED modules must carry the CE

mark.

In Europe the declarations of conformity must include the following standards:

CE: IEC 62471, IEC 60598-1, EN 60529, EN 62031, IEC 60598-1, EN 55015, EN 61547.

Also check for the mark of an independent authorized certification institute.

Please see the relevant application guides for more detailed information.

OSRAM OPTOTRONIC® electronic control gear complies to all relevant standards and guarantees safe operation.

- Installation of LED modules (with power supplies) needs to be made with regard to all applicable electrical and safety standards. Only qualified personnel should be allowed to perform installations
- > Observe correct polarity. Incorrect polarity will lead to no light emission
- Parallel connection is highly recommended as safe electrical operation mode. Serial connection is not recommended. Unbalanced voltage drop can cause hazardous overload and damage the LED module.
- > Cutting within the chain is only allowed between the wiring of the modules.
- > Pay attention to ESD steps when mounting the module.
- When using power supplies other than OSRAM OPTOTRONIC®, in order to ensure continuous save operation, the output voltage has to be 24.0V +/-1.0V
- LED modules are dimmable by means of PWM (pulse width modulation). It is recommended using the following OSRAM control gears: OPTOTRONIC® OT DIM, OTi DALI DIM, with integrated 1 -10V dim interface
- The LED modules must not be operated in places which are directly exposed to atmospheric conditions. For outdoor applications, hence the LED module has to be protected by appropriate enclosures or covers. Operation in or under water is prohibited.
- > Modules can be installed together with the dedicated Mounting Profile BX-MP.



Ordering Guide

Productgroup	Product	EAN10	Sales Unit
BoxLED Indoor L Plus 865 G1	BXI-L-PL 865 G1	4052899 518193 *	5
BoxLED Indoor L Plus 840 G1	BXI-L-PL 840 G1	4052899 518216 *	5
BoxLED Indoor L Plus 830 G1	BXI-L-PL 830 G1	4052899 518230 *	5

*) EAN: Ordering number per single chain

Note: Typical performance data are subject to change without any further notice, particularly as LED technology evolves.



Productgroup	Product	EAN10	Sales Unit
Mounting profile BX-MP	Mounting profile BX-MP	4008321 981110 **	24

**) EAN: Ordering number for one Mounting profile

Note: Typical performance data are subject to change without any further notice, particularly as LED technology evolves.

Sales and Technical Support

OSRAM GmbH Customer Service Center Parkring 33 D – 85748 Garching Germany +49 (0)89 6213-6000

www.osram.com www.osram.com/backlighting www.osram.com/led-designer Sales and technical support is given by the local OSRAM subsidiaries.

On our world wide homepage all OSRAM subsidiaries are listed with complete address and phone numbers.

