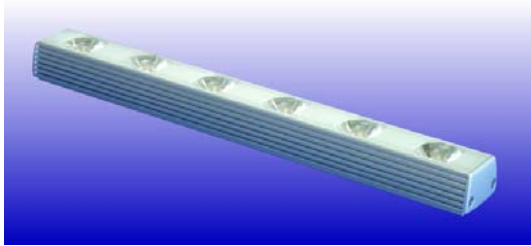


LINEARlight-DRAGON

LD06A



Benefits

- Powerful, high value LED module
- Available in white, 4 color temperatures
- Easy connection with OSRAM CONNECTsystem
- Low profile

Applications

- General lighting
- Downlight
- Built-in luminaires

Technical Operating Data

Product	Color	Number of LEDs	Voltage [V DC]*	Power [W]*	Current [A]*	Radiance Angle [°]*	Wavelength [nm] Color Temp [K]*	Lum. Intensity [cd]*
LD06-W3-865-L30	white	6	24	12,0	0,5	30	6500 K	115
LD06-W3-854-L30	white	6	24	12,0	0,5	30	5400 K	115
LD06-W3-847-L30	white	6	24	12,0	0,5	30	4700 K	115
LD06-W3-733-L30	white	6	24	12,0	0,5	30	3300 K	90

*) All Data are related to the entire module
 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 Features

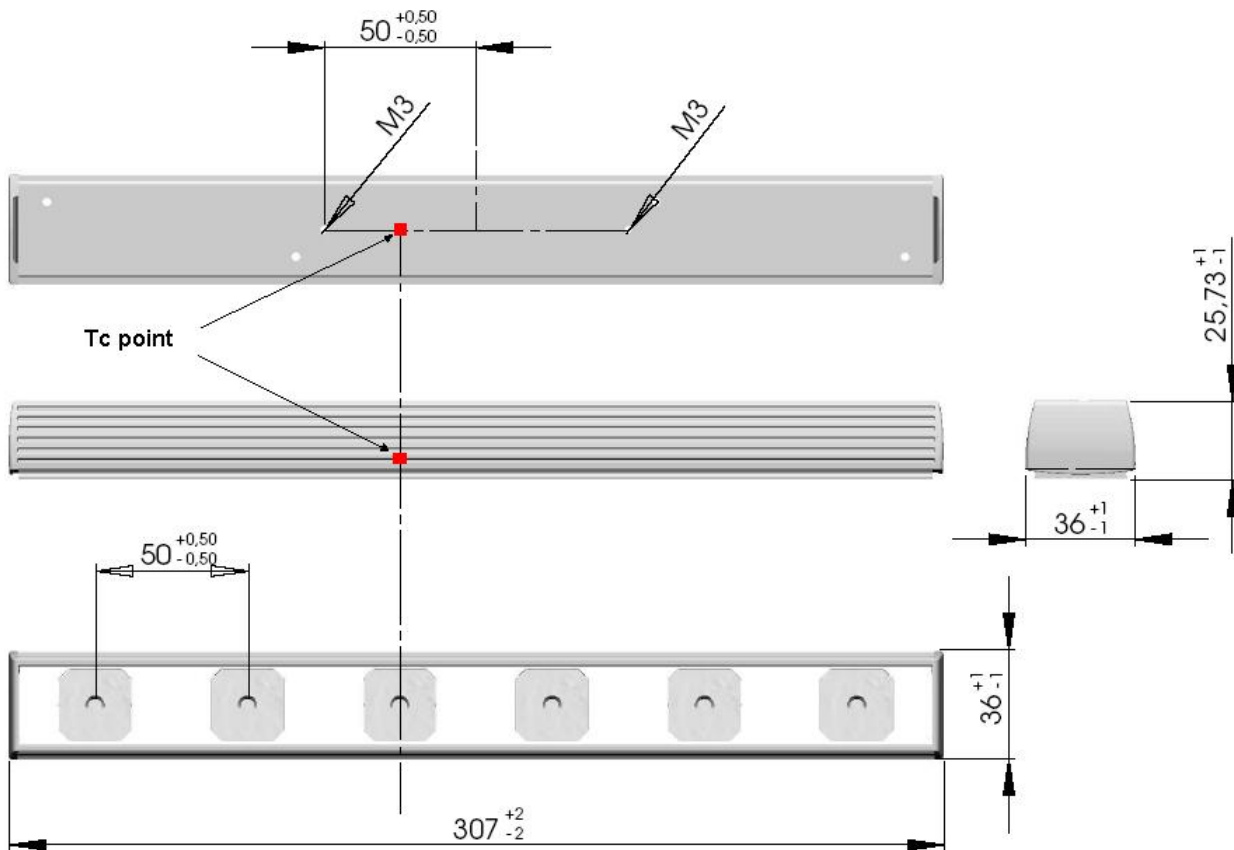
- Each board consists of 6 hi-flux GOLDEN DRAGON® LED with Thinfilm technology
- Size of printed circuit board (L x W x H): 307 mm x 36 mm x 25,8 mm
- Mounting hole (Ø 3 mm) allows easy installation with screws
- Easy connection with OSRAM CONNECTsystem LD-2x
- Parallel connection of up to 6 LED modules with the power feed in the center to one OT75W
- Only parallel connection allowed
- Dimmable by pulse width modulation (PWM) with the electronic controller OT DIM
- The LED module comes ready to use with preassembled feeder with open leads
- Luminous intensity based on single LED

Minimum and Maximum Ratings

Product	Operating Temperature at Tc-Point [°C] *	Storage Temperature [°C] *	Voltage Range [V dc] *	Reverse Voltage [V dc] *
LD06-W3-865-L30	-30 ... 75	-30 ... 80	23 ... 25	25
LD06-W3-854-L30	-30 ... 75	-30 ... 80	23 ... 25	25
LD06-W3-847-L30	-30 ... 75	-30 ... 80	23 ... 25	25
LD06-W3-733-L30	-30 ... 75	-30 ... 80	23 ... 25	25

*) Exceeding maximum ratings for operation and storage temperature will reduce expected life time or destroy the LED Module.
 Exceeding maximum ratings for operation voltage will cause hazardous overload and will likely destroy the LED Module.
 The temperature of the LED module needs to be measured at the Tc-point according to EN60598-1 in a thermally constant status with a temperature sensor or a temperature sensitive label (available e.g. at RS-Components). For exact location of the Tc-point see drawing below.

Drawing



Safety Information

- The LED module itself and all its components may not be mechanically stressed.
- Assembly must not damage or destroy conducting paths on the circuit board.
- The mounting of the module is carried out by attaching it at the mounting holes. Metal mounting screws with 3 mm should be treated with synthetic washers to prevent circuit board damage and possible short circuiting. Using of plastic screws 3 mm is also possible.
- To avoid mechanical damage to the connecting cables, the module should be attached securely to the intended substrate. Heavy vibration should be avoided.

The LED Module incorporates no protection against short circuits, overload or overheating. Therefore it is absolutely necessary to operate the modules with a electronically stabilised power supply offering protection against the above mentioned safety risks. For dimming applications attention should be paid to specific references in "OPTOTRONIC © Technical Guide".

OSRAM OPTOTRONIC ® power supplies are specifically designed with protection features for safe operation.

When using power supplies other than OPTOTRONIC ® the following basic safety features are required, in addition to any other application specific concerns and local safety codes:

- Short circuit protection
 - Overload protection
 - Overheat protection
-
- 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.
 - Correct electrical polarity needs to be observed. Wrong polarity will result in 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.
 - Pay attention to standard ESD precautions when installing the module.
 - Use only LD-2x CONNECTsystem for electrical installation. Three types of connectors are available: LD-2PIN - Feeder with 50 mm cables. LD-2CONN-40 - Connector for through wiring with 40 mm cable length. LD-2CONN-100 - Connector for through wiring with 100 mm cable length.
 - Connect the two red cables with the plus pole and the two black cable with the minus pole of the OPTOTRONIC. Both red cables must be used as common plus pole and both black cables must be used as common minus poles.
 - The LED module can typically survive levels of up to 2 Amperes. As a general design precaution, if the maximum output current of the power supply is more than 2 Amperes, fast-blow fuses should be incorporated into the wiring plan.
 - Electrical contact is achieved with the contact cables. A maximum of 4 modules can be installed consecutively from one power feed. Operation with more than 4 consecutive BACKlight modules will reduce photometric performance and exceed the current carrying capacity of the module.
 - Installation of 6 LINEARlight-DRAGON on one OPTOTRONIC® 75W has to be realised by either feeding the power to the centre or by splitting the power feed to contact groups of 3.
 - The module, as manufactured, has no conformal coating and therefore offers no inherent protection against corrosion.
 - Damage by corrosion will not be honored as a materials defect claim. It is the user's responsibility to provide suitable protection against corrosive agents such as moisture and condensation and other harmful elements.
 - If the IP rating of the fixture should be higher than IP20, the design of the housing should be according to the IP standards in the application.

Assembly Information

- In order to optimise the thermal management the metal surface needs to be clean (free from dirt and oil) and planar for the best contact with the LED module
- To connect two or more modules please proceed as follows: 1) Remove end cap on the opposite side to the feeder of the first module. 2) Put in one end of the desired board-to-board connector LD-2CONN-40/100 into the slot on the "OUTPUT"-side. 3) Remove the end cap of the second module on the feeder side and unplug the connector with the feeder. 4) Plug in the remaining slot of the cable connector on the "INPUT"-side. To link more modules please connect the "OUTPUT"-side of the first module with the "INPUT"-side of the following module.
- The housing of the LINEARLight-DRAGON is a prime heat sink. The metal surface increases the cooling effect and prolongs the service life time.

Ordering Guide

Productgroup	Productname	EAN *	S-Unit *
LINEARlight-DRAGON	LD06-W3-865-L30	4008321180483	6
LINEARlight-DRAGON	LD06-W3-854-L30	4008321180520	6
LINEARlight-DRAGON	LD06-W3-847-L30	4008321180544	6
LINEARlight-DRAGON	LD06-W3-733-L30	4008321180568	6

*) EAN: Ordering number per single module
S-Unit: Modules per shipping unit

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

Sales and Technical Support

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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.

Related and Further Information

- The new dimension of light 153 S006 GB
- OPTOTRONIC® Data Sheets <http://catalog.myosram.com>
- OPTOTRONIC® Technical Guide 130 T008 GB