

DRAGONpuck® - DP35

Preliminary Data Sheet



Benefits

- Efficacy alternative to MR11 halogen lamps
- Compact High-Flux LED light source
- Efficacy up to 97 lm/w

Applications

- Hospitality
 - Restaurant
 - Hotel
- Shop
 - Shelf & Undercabinet

Technical Operating Data

Product	Color	Number of LEDs	Current [mA]*	Power [W]*	Radiance Angle [°]*	Color Temp. [K]*	Lum. Intensity [cd]*
DP35-W4F-9-857-L36	white	4	700	9,2	36	5700	1600
DP35-W4F-7-857-L36	white	3	700	6,9	36	5700	1200
DP35-W4F-9-827-L36	white	4	700	9,2	36	2700	1330
DP35-W4F-7-827-L36	white	3	700	6,9	36	2700	1000

*) 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 +) Preliminary Data **) only available in APAC

Technical Features

- Dimensions: H: 12 mm, Ø: 51 mm
- Assembly with M3 screw on metallic heat sink
- Module ready to use with 200 mm cables / AWG 22 double pole cable.
- Operation only with constant current control gears (see page 3 for recommendations)
- Best efficacy in combination with OSRAM OPTOTRONIC® control gears
- Dimmable with OPTOTRONIC® OT LTCS family and OPTORONIC® OT9 DIM / OT18 DIM
- Color Rendering index CRI typ. 85
- Up to 50,000 hrs lifetime @L70 @ Tc max
- Shock and vibration proof according to IEC 60068-2

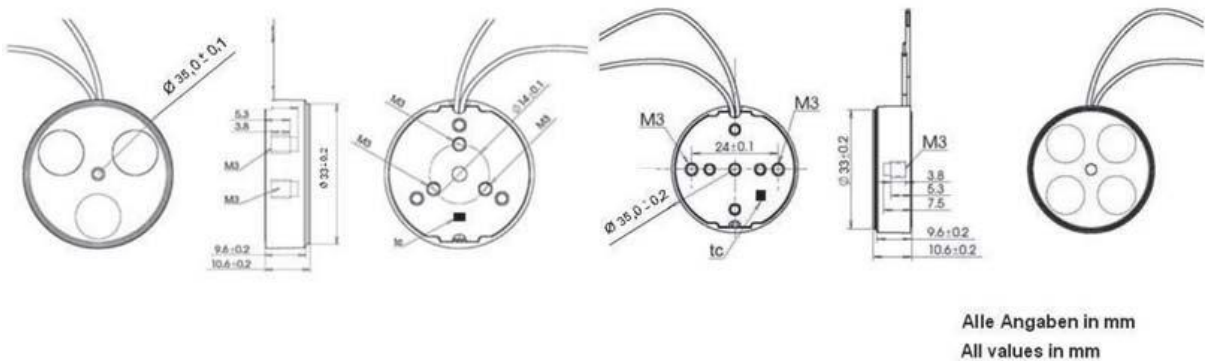
Minimum and Maximum Ratings

Product	Operating Temperature at Tc-Point [C°]*	Storage Temperature [C°]*	Max. Current[A]*	Reverse Voltage [V dc]*	Forward Voltage [V dc]*
DP35-W4F-9-857-L36	-30 ... 90	-30 ... 90	0,85	24	11,92 – 15,12
DP35-W4F-7-857-L36	-30 ... 90	-30 ... 90	0,85	24	8,94 – 11,34
DP35-W4F-9-827-L36	-30 ... 90	-30 ... 90	0,85	24	11,92 – 15,12
DP35-W4F-7-827-L36	-30 ... 90	-30 ... 90	0,85	24	8,94 – 11,34

The module is designed to work with current sources. The maximum output voltage may not exceed 100 V DC. Reverse operation is not allowed and may destroy the module.

*) Exceeding maximum ratings for operating and storage temperature will reduce expected life time or destroy the LED Module.
Exceeding maximum ratings for operating current will cause hazardous overload and will likely destroy the LED Module. Several modules may be connected in series up to themaximum voltage of 100 V DC (outside SELV limits).
The temperature of the LED module 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. For exact location of the Tc-point see drawing below. **) only available in APAC

Drawings



DRAGONpuck DP35 operated with 350mA, 500mA sowie 700mA

typ. power [W]	max. power [W]	luminous intensity (typ.) [cd]	luminous flux (typ.) [lm]	efficiency (typ.) [lm/W]
350mA				
3,2	3,9	2700K: 680	2700K: 324	2700K: 77
		5700K: 790	5700K: 380	5700K: 90
500mA				
6,9	7,6	2700K: 924	2700K: 440	2700K: 70
		5700K: 1110	5700K: 530	5700K: 84
700mA				
9,2	10	2700K: 1332	2700K: 660	2700K: 72
		5700K: 1598	5700K: 800	5700K: 87

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.

In order to drive OSRAM LED-Modules safely, it is absolutely necessary to operate them with an electronically stabilised power supply protecting against short circuits, overload and overheating.

To also ease the luminaire/installation approval, electronic control gear for LED or LED modules should carry the CE mark and be ENEC certified. In Europe the declarations of conformity must include the following standards:

CE: EC 61347-2-13, EN 55015, IEC 61547 and IEC 61000-3-2 - ENEC: 61347-2-13 and IEC/EN 62384.

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

Please see the relevant brochure for more detailed information (see "Related and Further 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!
Depending on the product incorrect polarity will lead to emission of red or no light. The module can be destroyed! Correct polarity immediately! (see "reverse voltage", page 2).
- Serial connection is highly recommended as safe electrical operation mode. Parallel connection is not recommended. Unbalanced voltage drop can cause hazardous overload and damage the LED module.
- Pay attention to ESD steps when mounting the module.
- 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.

- **Recommended OPTOTRONIC® devices (non conclusive):**

OT 9/200-240-350
OT 9/100-120/350 E
OT 9/10-24/350 DIM
OT 9/220-240/350 DIM
OT 18/200-240/700 DIM
OT 35/220-240/700 LTCS
OT 45/220-240/700 LTCS
OTe 35/200-240/700

- **Recommended Light Management Systems**

OTi DALI 2x700 CS
OT DMX 3x350 DIM LI
OT DMX 6x350/700 DIM SO
OT DMX 12x350/700 DIM SO

Ordering Guide

Productgroup	Product	EAN*	S-Unit*
DRAGONpuck®	DP35-W4F-9-857-L36	4008321976222	16
DRAGONpuck®	DP35-W4F-7-857-L36	4008321976185	16
DRAGONpuck®	DP35-W4F-9-827-L36	4008321976208	16
DRAGONpuck®	DP35-W4F-7-827-L36	4008321976161	16
Heat sink	CPDPHS-51	4008321975829	16

*) EAN: Ordering number per single module

S-Unit: Modules per shipping unit

**) only available in APAC

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 the OSRAM website all subsidiaries are listed with complete address and phone numbers

Related and Further Information

- A new approach to light 153 S006 GB
- OSRAM LED Systeme www.osram.de/led-systeme
- OPTOTRONIC® Technical Guide 130 T008 DE www.osram.de/evg-downloads
- OPTOTRONIC® Data sheets <http://catalog.myosram.com>
- Eulumdat Files www.osram.de/led-systeme-downloads
- New standards for LED control gear www.osram.de/evg-downloads