

Dragon6 Strip Whites

ILS-GD06-XXXX-SD101

Product Overview

- Compact and powerful LED light source
- Available in white, with three colour temperatures
- Simple Plug and Play with industry standard connectors
- Low profile
- Aluminium PCB for optimal thermal management

Applications

- General Lighting
- Fluorescent tube replacement
- Architectural lighting
- Shelf lighting
- Shop and Entertainment lighting

Technical Features:

- Each board consists of 6 hi-flux GOLDEN DRAGON® LEDs with Thinfilm technology
- Up to 70,000 hour lifetime to 70% of original brightness
- Mounting holes (3mm diameter) allows easy installation with screws
- Size of printed circuit board (L x W x H) : 290mm x 17mm x 4.7mm
- Many secondary lens options available
- Brightness adjustable by digital PWM signal
- Single input voltage, each board has own regulation built-in
- Operation with Optotronic power supplies from Osram or other 24Vdc power supply
- Boards can be linked together to produce longer chains. (Maximum 5 linked if using OT75)



Important Information and Precautions

- The Strip's LED, when powered up, is very bright thus it is advised that you do NOT look directly at it. Turn the Strip away from you and do not shine into the eyes of others.
- Strips will overheat in operation if not attached to a suitable Heat Sink. Over heating can cause failure or irreparable damage.
- Do not operate Strips with Power Supplies with unlimited current. Connection to constant voltage power supplies that are not current limited may cause the Strip to consume current above the specified maximum and cause failure or irreparable damage.
- Strips, when operated, can reach high temperatures thus there is risk of injury if they are touched.

Product Options

ILS PART NUMBER	colour	Colour Temperature (K)	Wattage (W)*	Voltage (Vdc)	Typical Flux Of Strip (lumens) †	Typical Current of Strip (mA)*	Radiance Angle°
ILS-GD06-HWWH-SD101.	Hot White	2700	9	24	438 lm	350mA	120
ILS-GD06-WMWH-SD101.	Warm White	3000	9	24	558 lm	350mA	120
ILS-GD06-NWWH-SD101.	Neutral White	4000	9	24	558 lm	350mA	120
ILS-GD06-DWWH-SD101.	Street White	5700	9	24	642 lm	350mA	120
ILS-GD06-ULWH-SD101.	Cool White	6500	9	24	750 lm	350mA	120

* 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.

§ Tolerance +/- 10%

† Measured with 20mS pulse at 25° c

Minimum and Maximum Ratings

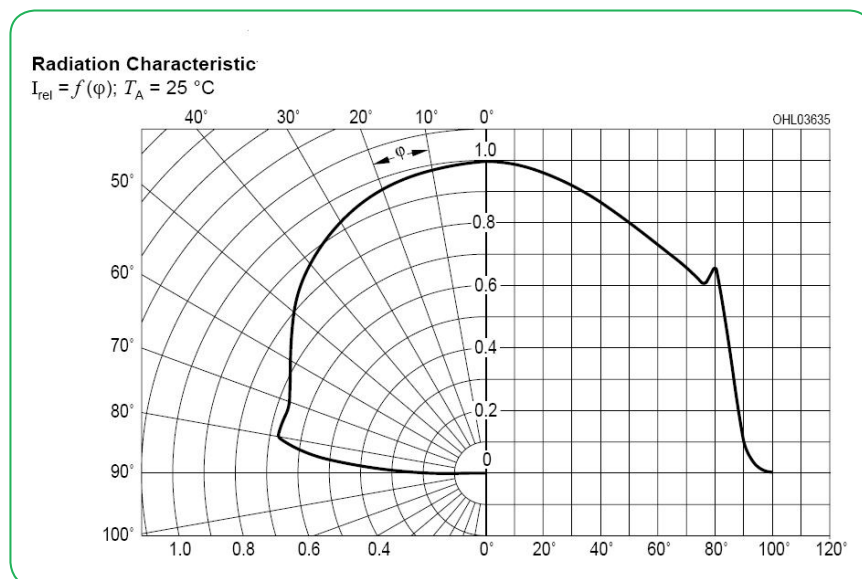
ILS PART NUMBER	Operating Temperature at Tc-Point [°C]*	Storage Temperature [°C]*	Voltage Range [Vdc]*	Reverse Voltage [Vdc]*
ILS-GD06-HWWH-SD101.	-20...75	-30...85	23...25	Not Allowed
ILS-GD06-WMWH-SD101.	-20...75	-30...85	23...25	Not Allowed
ILS-GD06-NWWH-SD101.	-20...75	-30...85	23...25	Not Allowed
ILS-GD06-DWWH-SD101.	-20...75	-30...85	23...25	Not Allowed
ILS-GD06-ULWH-SD101.	-20...75	-30...85	23...25	Not Allowed

Pin Out

Product	Pin 1	Pin 2	Pin 3	Pin 4*	Pin 5	Pin 6
CN1	+24V	+24V	No Connect	PWM Adjust	Ground	Ground
CN2	+24V	+24V	No Connect	PWM Adjust	Ground	Ground

* If no PWM signal is being used this pin must be connected to Ground.

Radiation of single LED



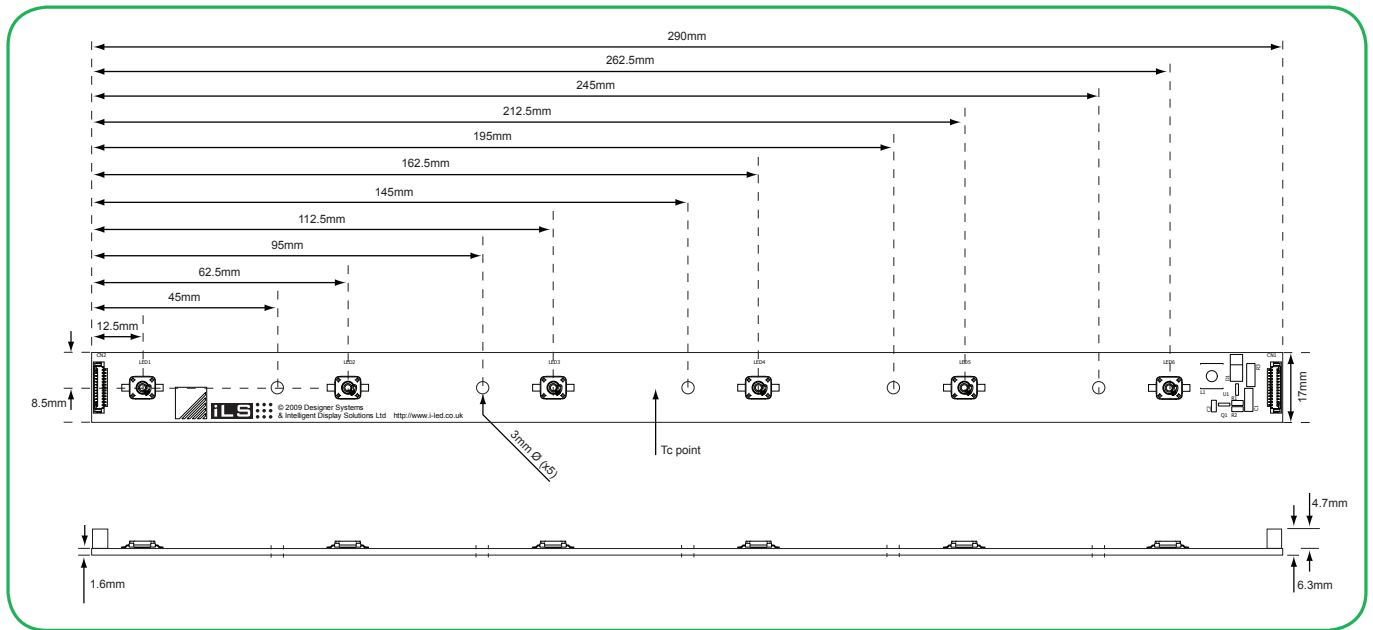
Cables

ILS offer interconnect cables for the 6 white LED Dragon Strip.

CAB-ILS-GD06-Input = Power Input cable

CAB-ILS-GD06-Link = Link cable

Technical Drawing



Assembly Information

- The mounting of the Dragon 6 Strip has to be on a metal Heat Sink.
- In order to optimise the thermal management the metal surface needs to be clean (dirt and oil free) and planar for the best contact with the LED module. A thermal grease or heat transfer material is highly recommended.

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.
- The mounting of the module is carried out by attaching it at the mounting holes. Metal mounting screws must be insulated with synthetic washers to prevent circuit board damage and possible short circuiting.
- To avoid mechanical damage to the connecting cables, the boards should be attached securely to the intended substrate. Heavy vibration should be avoided.
- Observe correct polarity!
- Depending on the product, incorrect polarity will lead to emission of red or no light. The module can be destroyed!
- Pay attention to standard ESD precautions when installing the Dragon 6 Strip.
- The Dragon 6 Strips, as manufactured, have no conformal coating and therefore offer no inherent protection against corrosion.
- Damage by corrosion will not be accepted 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.
- For outdoor usage, a housing is definitely required to protect the board against environmental influences. The design of the housing must correspond to the IP standards in the application. It is also the responsibility of the user to ensure any housings or modifications keep the Tc junction temperature to within stated ranges.
- 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 61374-2-13, EN 55015, IEC 61547 and IEC 61000-3-2 - ENEC: 61374-2-13 and IEC/EN 62384.

For further information please contact ILS

The values contained in this data sheet can change due to technical innovations. Any such changes will be made without separate notification.

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