

**SANlight FLEX II-Series LED**



## SANlight FLEX II-Series LED Installation Guide

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**SANlight FLEX II-Series LED**



## Product Information

### Specifications

- **Models:** FLEX II 10, FLEX II 15, FLEX II 20, FLEX II 25
- **Operating Voltage:** 48V
- **Warranty:** 3 years from the date of purchase
- **Intended Use:** Illumination of plants
- **Permissible Ambient Humidity:** Up to 99%

### Product Usage Instructions

#### Intended Use and Installation

The SANlight FLEX II LED module is designed for illuminating plants. Before installation, ensure that the luminaire is at least 3cm away from the illuminated surface or object.

#### Cable Handling

Ensure all cables are installed with strain relief to prevent tensile loads. Do not operate the luminaire with coiled cables.

#### Power Supply

Use only 48V constant voltage power supplies of the appropriate rating for the FLEX II luminaire.

#### Maintenance and Cleaning

Clean the module with a dust and grease-free cloth after disconnecting it from the power supply. Do not use cleaners or damp cloths. Avoid scratching the secondary optics of the LEDs during cleaning.

#### Repairs and Warranty

Repairs and maintenance should only be carried out by the manufacturer to avoid voiding the warranty. The warranty period is 3 years from the date of purchase.

### Frequently Asked Questions (FAQ)

- **Q: Can the FLEX II luminaire be operated in any position?**

A: Yes, the FLEX II luminaire can be operated in any position, but maintain a minimum distance of 3cm from

surrounding objects.

- **Q: What should I do in case of damage to the device?**

A: In case of damage, return the device to the SANlight sales partner from whom it was purchased for repairs.

With the purchase of the SANlight FLEX II LED module, you have chosen a high-quality product that will give you a lot of pleasure. Please read the operating instructions before operating your FLEX II light, as incorrect use can cause damage to the light or to humans/animals/plants. Improper use of the FLEX II light will void any warranty and the manufacturer's product liability.

Valid for FLEX II 10, FLEX II 15, FLEX II 20, and FLEX II 25 further denoted as FLEX II.

## **Intended use**

- **Distance to the illuminated object**

The distance between the luminaire (lower edge of the luminaire) and the illuminated surface or object must be at least 3cm.

- **Scope of application of the luminaire**

The SANlight FLEX II luminaire may only be used for the illumination of plants.

- **Permissible ambient temperature for operation**

The SANlight FLEX II luminaire may be operated up to a maximum ambient temperature of 35°C. The minimum ambient temperature at which the SANlight FLEX II luminaire may be operated is 5°C.

- **Permissible ambient conditions for operation**

The SANlight FLEX II luminaire may be operated up to a relative humidity of max. 99%.

- **Permissible orientation of the LED module**

The SANlight FLEX II luminaire may be operated in any position. However, a minimum distance of 3 cm from surrounding objects must be maintained.

## **Laying the cables**

When laying all cables, ensure that they are installed with strain relief. The cables must never be subjected to tensile loads. The cables must be unwound. The FLEX II luminaire must not be operated with coiled cables.

## **Power supply unit**

Only 48V CV (constant voltage) power supplies of appropriate rating may be used.

## **Maintenance and cleaning**

A dust and grease-free cloth must be used for cleaning the module. For cleaning, the module must be disconnected from the general power supply. Do not under any circumstances use other aids such as cleaners, damp cloths, etc.. Make sure that the secondary optics of the LEDs are not scratched by cleaning.

## **Works and repairs**

Repairs and work may only be carried out by the manufacturer. Repairs, modifications and other work not carried out by the manufacturer will void the manufacturer's warranty and product liability.

## **Warranty Statement**

This device has been designed, manufactured and tested according to the European safety standard (EN60598/CE). The warranty for the LED light as well as the accessories is 3 years from the date of purchase.

- The warranty does not apply to devices that have not been installed and maintained according to the specifications in this manual. The manufacturer is not responsible for any damage caused by unauthorized or incorrect use.
- In the event of damage, the device must be returned to the SANlight sales partner from whom the product was purchased. The distributor will send the defective product to the manufacturer SANlight. After repair by the manufacturer, the device will be returned to the respective sales partner.

## Safety Notice

### **ATTENTION photobiological safety notice:**

According to DIN EN 62471, the FLEX II LED module is classified in the free group. Nevertheless, avoid unnecessary long irradiation and direct view into the light source.

## Hazard warnings

- **Caution:** The minimum distance from objects in the vicinity of the luminaire is 3cm. The heat sink/housing must not be covered.
- **Caution:** The luminaire may only be operated with an appropriate power supply unit with 48V constant voltage. The customer is responsible for maintaining the IP protection class when connecting the luminaire.
- **Caution:** Do not look into the light source.
- **Caution:** Do not operate in explosive atmospheres.
- **Caution:** The FLEX II luminaire may become hot up to 80°C at maximum ambient temperature (35°C) as specified in case of failure.
- **Caution:** The lamp must be adequately secured against falling.
- **Caution:** If damage to the lamp, the power supply unit or a cable is detected, the lamp must be taken out of service immediately. This must be done by disconnecting the power supply unit from the general power supply.
- **Caution:** To avoid hazards, a damaged outer flexible cord of this fixture may only be replaced by the manufacturer, its service representative, or a comparable qualified person.

## Electrical Connection Of The FLEX II

### **The electrical connection of the FLEX II:**

The FLEX II Led module may only be operated with power supply units that supply the lamp with 48V constant voltage. The correct choice of the power supply unit must be made by a qualified specialist (recommended power supply units in the Driver chart). To maintain the IP protection class, a power supply unit with a suitable connector (IP65) must be used. The maximum number of FLEX II luminaires connected to one power supply unit is shown in the Driver chart. If different models of SANlight FLEX II are operated on one power supply unit, the total power of all luminaires must be taken into account. Depending on the length of the connecting cables, the total number of possible luminaires on a power supply unit may be reduced (voltage drop due to the length of the cable).

## Driver chart

<b>FLEX II Typ Driver</b>	<b>min. FLEX II</b>	<b>FLEX II 10</b>	<b>FLEX II 15</b>	<b>FLEX II 20</b>	<b>FLEX II 25</b>
GST25E48-P1J	FLEX II 10	2	1	1	1
SGA60E48-P1J	FLEX II 10	6	4	3	2
BLD-150-V048-NNS	FLEX II 10	15	10	7	5
BLD-240-V048-NNS	FLEX II 10	22	15	11	9
BLD-320-V048-NNS	FLEX II 20	30	21	14	12

First, connect the luminaire to the power supply unit. Only then may the power supply unit be connected to the general mains supply.

## Technical Data

<b>Technical data FLEX II</b>	<b>FLEX II 10</b>	<b>FLEX II 15</b>	<b>FLEX II 20</b>	<b>FLEX II 25</b>
Power consumption	9,5W	14,4W	19W	24W
Operating voltage LED module	48V DC	48V DC	48V DC	48V DC
Operating current LED module	0,21A	0,315A	0,42A	0,52A
Permissible ambient temperature	5-40°C	5-40°C	5-40°C	5-40°C

## Scope Of Delivery

Scope of delivery: Light, Carabiner, Clamps



## Installation and assembly instructions

**Mounting and suspension of the luminaire SANlight FLEX II:**

The SANlight FLEX II luminaire can be screwed on using the enclosed clamps or suspended using the enclosed carabiner. Secure the LED module sufficiently against accidental dropping.

Fig. 1: On each side of the FLEX II luminaire there is a longitudinal groove



Fig. 2: To install the suspension bracket, first place the hook of one side in the longitudinal groove.

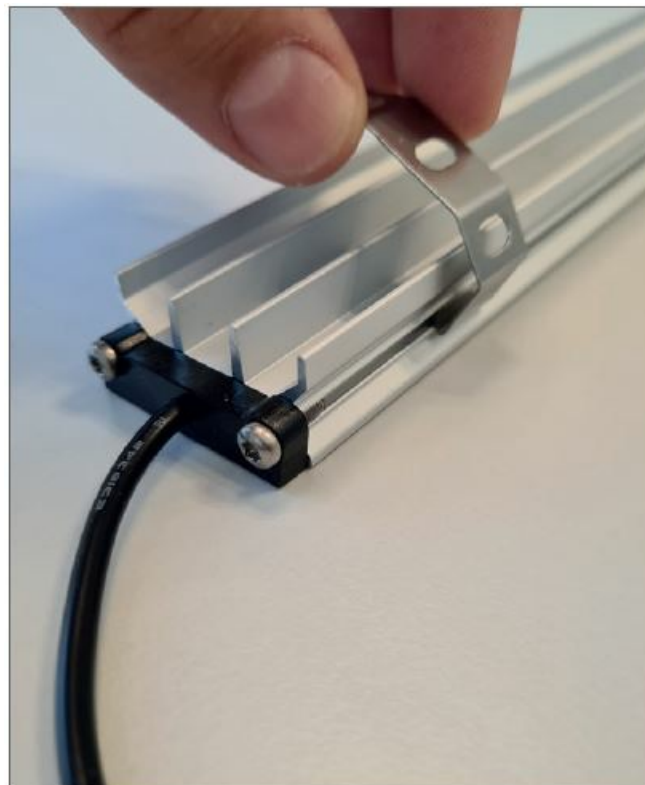


Fig. 3: Spread the suspension bracket slightly so that it protrudes over the cooling fins on the opposite side of the FLEX II.

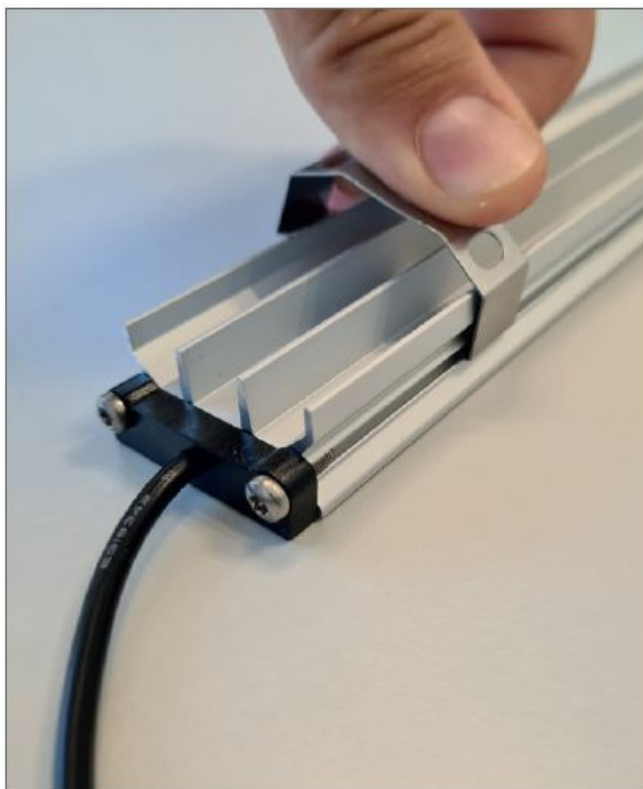
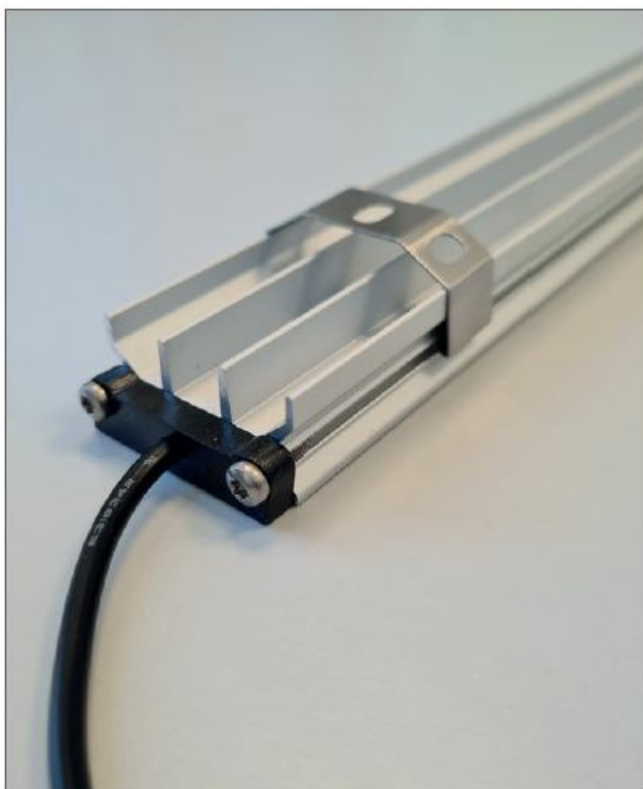


Fig. 4: With slight pressure on the suspension bracket, it snaps into place on the opposite longitudinal groove.




## Symbols Description



**Caution:** Do not look into the light source.



-  The lamp must not be disposed of in household waste! The lamp can be returned to the manufacturer for disposal. The manufacturer will bear the disposal costs. Alternatively, the lamp can be taken to a disposal company for electrical appliances.



- **Attention:** The luminaire is not suitable to be covered with thermal insulation material!



- Caution, risk of electric shock
- **IP65** Dustproof and jet-proof luminaire.



- The light source of this luminaire cannot be replaced. Opening the luminaire is not permitted.

## Contact manufacturer

- SANlight GmbH, Montafonerstrasse 14, 6780 Schruns, Austriaa.
- [www.sanlight.com](http://www.sanlight.com).
- [support@sanlight.com](mailto:support@sanlight.com).

Have fun using your FLEX II. For questions, suggestions or further information please contact your dealer or us.

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## Documents / Resources



[SANlight FLEX II-Series LED](#) [pdf] Installation Guide  
FLEX II 10, FLEX II-Series LED, Series LED, LED, FLEX II 15, FLEX II 20, FLEX II 25

## References

- [Willkommen bei SANlight: Den Experten für Photonik und Halbleitertechnik](#)
- [User Manual](#)

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