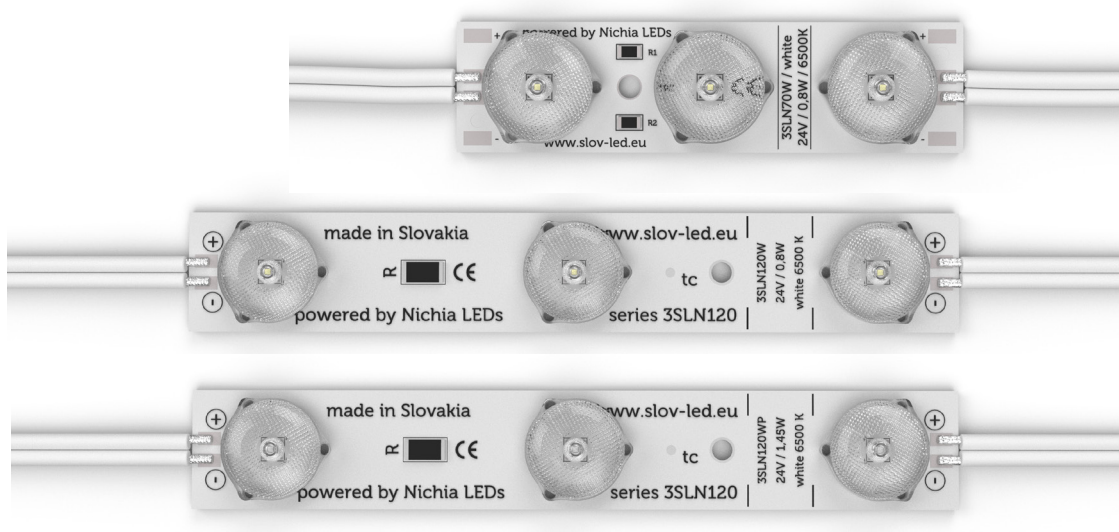


LED modules / white / series W (with lens)

3SLN70W
3SLN120W
3SLN120WP



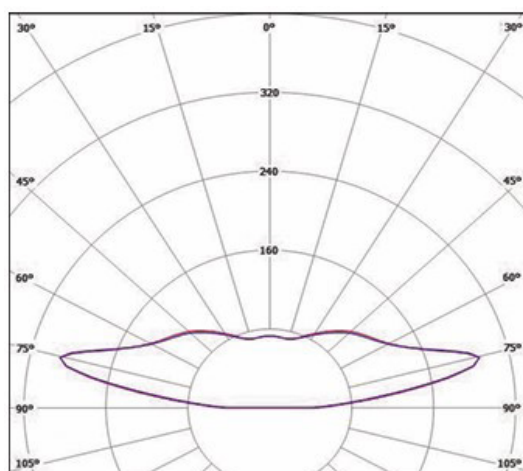
Use

- interior/exterior
- illumination and backlighting of advertising signs and panels

Characteristics of the product

- new generation of LEDs from a Japanese company **Nichia**
- actual luminous efficacy up to **157 lm/W**
- beam angle more than **175°**
- **7 years** warranty

Photometry



beam angle

Technical parameters

Common technical parameters:

input voltage	temperature of the white light ¹	CRI ¹	beam angle	working temperature	cable length ²
24 V	2000-6500 K	70-99	175°	-30°C to +55°C	90-150 mm

Technical parameters of individual types of LED modules:

module type	input	luminous flux ³	specific power	dimensions	weight
3SLN70W	0,8 W	126 lm	157 lm/W	8x19,5x73 mm	9 g
3SLN120W	0,8 W	126 lm	157 lm/W	8x19x120 mm	13 g
3SLN120WP	1,45 W	215 lm	148 lm/W	8x19x120 mm	13 g

¹ we can supply you with white light color temperature and CRI in a wide range of precisely selected shades

² we will adjust and custom-make the cable length between modules, module spacing and number of modules in a series for you.

³ the luminous flux depends on the white color temperature of the LEDs and the CRI; warmer shades with higher CRI have lower luminous flux.

Construction



High-quality clear lens with wide beam angle **175°** for an outstanding light effect.



Adhesive with high temperature resistance from **-50 to +100°C** and long lifetime.



The heart of our LED modules are top-quality diodes from japanese company **Nichia**, supplied by optimal current to maintain their long lifetime and high efficiency

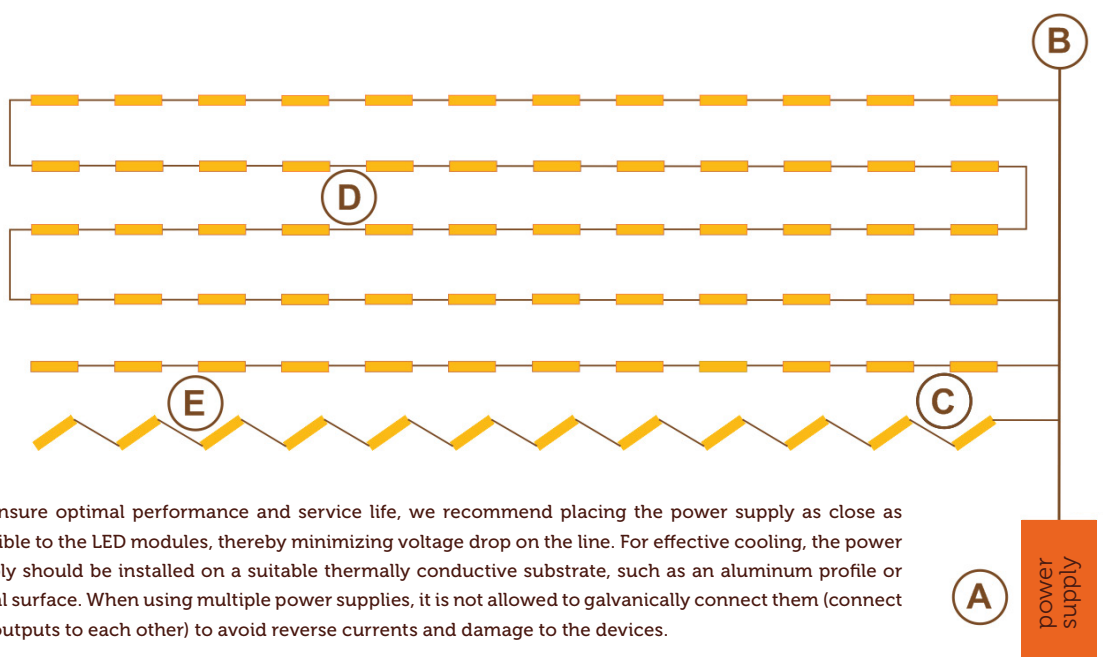


Almost invisible, but 100% reliable quality protector of our LED modules is special UV stable silicone coating from **Dowsil**.



Our PCBs meet the highest quality requirements for long service life of our LED modules in all conditions, even outdoors.

Installation



(A) To ensure optimal performance and service life, we recommend placing the power supply as close as possible to the LED modules, thereby minimizing voltage drop on the line. For effective cooling, the power supply should be installed on a suitable thermally conductive substrate, such as an aluminum profile or metal surface. When using multiple power supplies, it is not allowed to galvanically connect them (connect the outputs to each other) to avoid reverse currents and damage to the devices.

(B) When designing and implementing the power supply of LED modules with a voltage of 24 V DC, it is necessary to ensure that the cross-section of the power wire corresponds to the size of the flowing electric current and the length of the line. Incorrect dimensioning of the wires can lead to excessive voltage drop, overheating of the wire or system failure. The recommended minimum cross-sections of the wires are as follows: For currents up to 4A min. 1.5mm² / for currents up to 8A min. 2.5mm². In the case of powering a larger number of LED modules or using more powerful power supplies, it is advisable to divide the installation into several parallel branches, which will reduce the load on the individual wires and distribute the current load more evenly. In installations with longer cable routes, it is necessary to take into account the voltage drop and, if necessary, choose a larger cross-section of the wire, or power the LED modules from several points (so-called "power supply from both sides").

(C) When connecting modules from one side, such a series can consist of up to 20 modules.

(D) When connecting modules from two sides, a series of modules can consist of up to 50 pieces.

(E) For better light dispersion, consider mounting the modules angled.

Thank you for your interest in the LED modules we produce.