



# SL slim LN

## 13 800

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...visible difference

## SL slim LN 13 800



### Best choice for:

- universal interior lighting
- lighting of production lines, industrial halls and warehouses
- lighting of car service centers, but also agricultural production areas
- lighting of gyms, sports fields and other areas

### Product characteristics:

- very wide customization options from just one piece
- **7-year** warranty - the possibility of negotiating individual guarantees
- use of quality LEDs from the Japanese manufacturer Nichia
- the lamp does not flicker and has pleasant daylight for the eyes
- high mechanical resistance up to IK10

### Customization possible:

- dimensions of the lamp, its color according to the RAL palette
- mounting method, types of holders and suspension systems
- connection of the lamp via different types of connectors or customized cable lengths
- light temperature 2000-6500 K with CRI 70-99, possibility of combination of colored light
- diffusion glasses and foils
- sensors of light, movement, temperature and others
- various dimming and lamp control systems

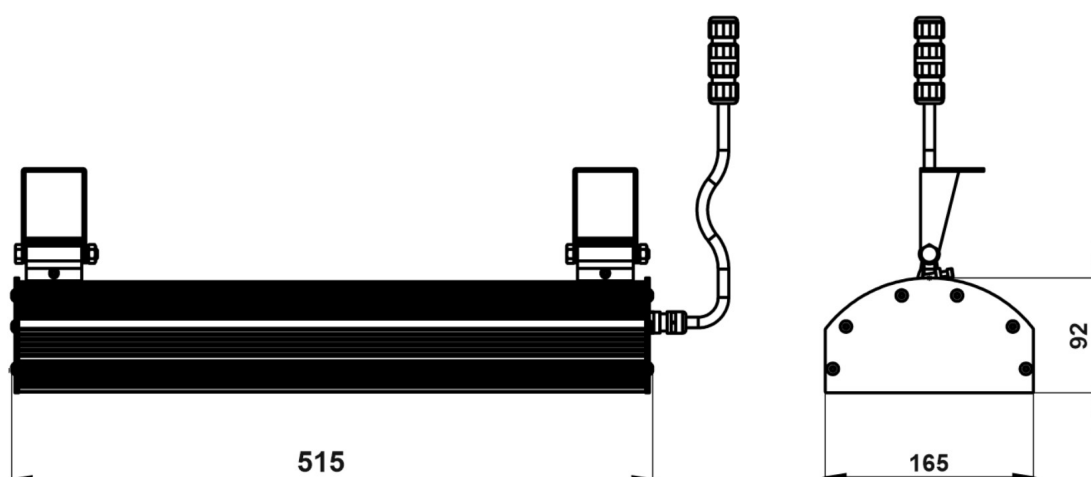
## Technical parameters:

|                             |                                                                   |
|-----------------------------|-------------------------------------------------------------------|
| installation                | see page 5 Holders                                                |
| weight                      | to 4,6 kg                                                         |
| dimensions                  | see drawing with dimensions below                                 |
| IP protection               | IP65/IP66                                                         |
| mechanical resistance       | IK10                                                              |
| body lamp material          | aluminum alloy, PC Makrolon (alt. glass)                          |
| working temperature         | from -30°C to +50°C                                               |
| cooling                     | passive, with aluminium body lamp                                 |
| input voltage               | 90 V-264 V, 50/60 Hz*                                             |
| protection class            | I.                                                                |
| surge protection            | 4 kV, 6 kV, 10 kV*                                                |
| power factor                | > 0,97                                                            |
| LEDs input                  | to 81 W                                                           |
| lamp input                  | to 88 W                                                           |
| LEDs number                 | 128 pcs (NICHIA type Mid-Power, made in Japan)                    |
| LEDs lifetime (Ta 25°C)     | 30°, 60°, 90°, 120° (and others)                                  |
| color temperature           | > 100 000 h / L90 / B10                                           |
| CRI (color rendering index) | 2000-6500 K                                                       |
| index podania farieb CRI    | CRI80+                                                            |
| LEDs luminous flux**        | 14 460 lm (by 4500 K, CRI 80)                                     |
| lamp luminous flux**        | 13 700 lm (by 4500 K, CRI 80)                                     |
| luminous efficacy**         | 156 lm/W                                                          |
| UV and IR radiation         | none                                                              |
| light control systems       | custom-made: DALI2, 0-10V, 1-10V, PWM, WiFi, Bluetooth and others |

\* according to the design of the lamp

\*\* depends, among other things, on the LEDs temperature and their CRI and is within a tolerance of +/- 10%

## Dimensions:



## Body lamp construction:



- Ⓐ The supporting part of the lamp is an anodized aluminum body, the function of which is to ensure good cooling of the generated heat from the LEDs. On order, the lamp can be powder-coated in a selected RAL shade. Brackets and mounting of the lamp are possible in several ways - see diagrams on page 5.
- Ⓑ The lighting part consists of Mid-Power LEDs from the Japanese manufacturer NICHIA. We offer you different light temperature and CRI. After the service life, it is possible to replace the used LEDs. We manufacture the lamp as standard with hard-to-break plastic and IK10. In case of interest, it is also possible to use different types of diffusion foils or glasses.
- Ⓒ In the lamp, we use high-quality and time-proven power supplies of various types according to the design of the lamp (dimming, etc.). We offer the possibility of increasing the surge protection to 10 kV.
- Ⓓ As part of the accessories, we offer you the possibility to order motion and light sensors. We use various dimming and light control systems to order, the most common being 0-10V, DALI2, Bluetooth, PWM, WiFi and others.
- Ⓔ The lamp is connected by a cable located at the end of the lamp. However, it is possible to place a feed-through from the top of the lamp, to allow wiring inside the lamp, to make lamps with through-connection in series. The power supply of the lamp is also possible in several versions - see diagrams on page 5.

## Holders:

### 1/ Mounting holes for hanging



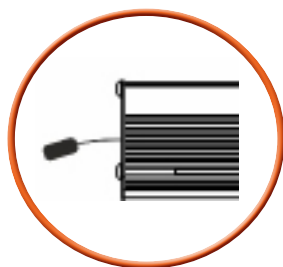
### 2/ Universal swivel "L" holder for larger or smaller offset to each other or apart



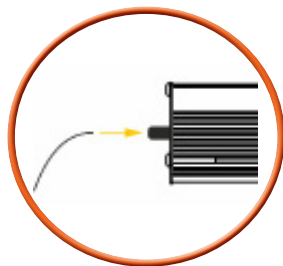
### 3/ Moving and rotating holders



## Connecting the lamp:



1/ Custom length cable with IP68 connector  
(more information about the connector [here...](#))



2/ Plugging the cable directly into the IP68 connector  
(more information about the connector [here...](#))



3/ Connection through the adapter to the lamp



4/ Connection through the adapter from above to the lamp



By each version, it is possible to connect the lamp through from both sides.

## Versions of used LEDs:

### LED Nichia H6 series

In the standard version, we manufacture these lamps with Nichia H6 series LEDs in light temperature from 2000 to 6500K with CRI 70-95. Clients most often prefer white daylight 4500 K with CRI80+.

### Optisolis LED

LED with a spectrum close to natural light, so that any color can be reproduced naturally. The ideal LED solution for museums and art galleries, printing and painting factories, as well as in jewelry stores, retail stores and other establishments where high color reproduction and natural, comfortable light are preferred.

### Vitasolis LED

The first LED in the world aimed at activating the human mind and body. It emits a natural white color with a high content of the blue-green light spectrum, which is proven to stimulate awakening and support a vibrant life. This product can be used in offices, schools, hospitals, etc. to improve circadian rhythms, productivity and learning.

### Dynasolis LED

Dynasolis is a combination of energizing azure (sky blue) and calm, soothing warm white color shade. It is a completely new color tuning and spectrum tuning solution that focuses on the importance of 480nm azure colored light, which defies the conventional concept of color tuning, and which simply changes the ratio of low and high CCT. Thereby it stimulates physical and mental activation from the morning awakening and the secretion of melatonin in the evening and later. Nichia approaches the adjustment of circadian rhythms from the point of view of spectrum tuning.

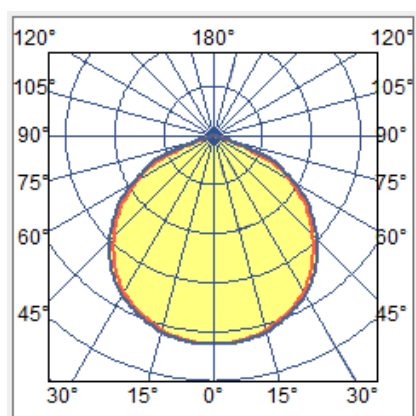
### tunable white

Nichia's adjustable 2-in-1 white LED has been developed to emit and control two color temperatures from a single LED. This LED allows for a simpler design of the fixture compared to the conventional method that doubles the number of LEDs by alternating different color temperatures.

### Hortisolis LED

Ideal spectrum for horticulture - plant and fruit growth. This LED includes all the light necessary for the growth of plants and fruits. Different wavelengths are combined in one package, which makes it possible to increase the production efficiency per artificial farm area with maximum efficiency and at the same time realize a good working environment.

## Optics:



most commonly used  
beam angle 120°



beam angle to order

## Enviromental protection:

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Ecology isn't just a slogan for us, we take ecology in the whole production process into consideration. Long lifetime and high efficiency saves markedly natural resources. Tailored beam angle minimalizes light smog and also saves costs for lighting.



After years, we will be happy to refurbish the lamp for you if there is wear and tear.



The construction of the lamp is made of recyclable materials.



In addition to the high-quality LED diodes made in Japan, all components of the lamp are mainly produced in Slovakia and the EU.



We use the highest quality commonly available components for the production of the lamp. Confirmation of quality is an above-standard up to 7 year warranty with the possibility of extension.



The high efficiency has of course direct relation with energy and natural resources savings.



Our lamps do not emit harmful UV and IR radiation, what confirms also photo-biological tests.

**Thank you for your interest in our LED lamps.**