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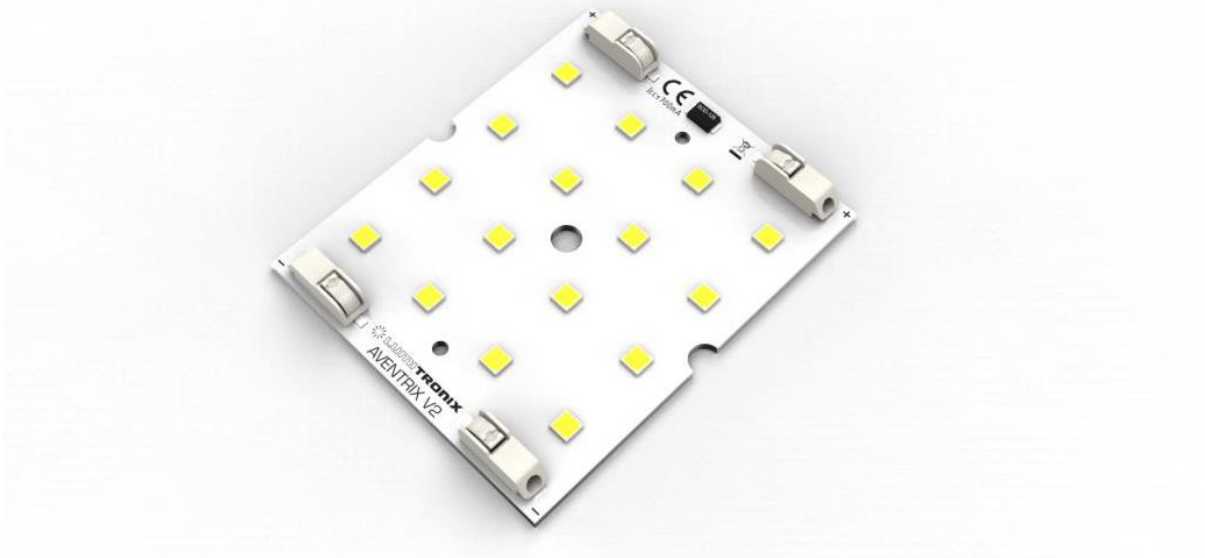
DATASHEET

AVENTRIX NICHIA LED MODULE WHITE CRI 80-99 1800-7800K 350MA 16 LEDS 5X6CM INTERCONNECTABLE WITH LENS OPTION

SKU: aventrix_custom



Article number (SKU)	**aventrix_custom**

AVENTRIX NICHIA LED MODULE WHITE CRI 80-99 1800-7800K 350MA 16 LEDS 5X6CM INTERCONNECTABLE WITH LENS OPTION

Product name	Aventrix Nichia LED Module White CRI 80-99 1800-7800K 350mA 16 LEDs 5x6cm Interconnectable with Lens Option	
Classification	Professional	
Model identifier (equivalent models)	Aventrix V2	
Photometric data (at TJ = 65°C, ± 10%)		
Light color	White	
Binning	3-Step MacAdam	
Color temperature (**K**)	1800 - 7800 K*	
Luminous flux (**lm**)	2000 - 2500 lm*	
CRI (**Ra**)	70-90+*	
Efficiency (**lm/W**)	*	
Beam angle FWHP	120°	
Lifetime L80B10C1 (**h**)	>60000 h	
Photometric code	*	
Electrical data (at TJ = 65°C, ± 10%) (reference settings)		
Operating mode	Constant current	
Voltage (**V**)	*	
Current (**mA**)	*	
Power (**W**)	*	*
Dimmable	Yes	
Dimensions / Mechanical data	**Metric units**	**Imperial units**
Length	60 mm	2.362"
Width	50 mm	1.968"
Height	6 mm	0.236"
Number of LEDs (pcs)	16 pcs	
Temperatures		
Operating temperature at Tc	-40 °C to +85 °C	
Ambient temperature	-40 °C to +50 °C	
Storage temperature	-40 °C to +100 °C	
Approvals / Certifications		
CE / RoHS / Reach	Yes	
EN 62471 Risk group	RG0	
Energy efficiency class	*	
Mains voltage luminous efficacy (lm/W)	*	
Version		
Date	25. May 2024	

*Custom made LED module, values depend on customer selection. Datasheet for the configured custom made variant will be provided after order confirmation.

WARRANTY INFO

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This LED Module has 5 years commercial warranty. Please refer to https://www.lumistrips.com/lumistrips-en-warranty for warranty terms.

MANUFACTURING INFO

made in Germany

This LED module is **made in Germany**, at a production line that uses the innovative manufacturing technology.

Our professional LED Strips and Modules use LEDs from market leaders

We develop and produce our LED strips at a state of the art facility in Germany, with the highest quality standards and by using only LEDs from market leaders such as Nichia, Samsung or Toshiba.

- **Nichia** is the LED market leader, with over 25% market share and decades of experience. Nichia researchers invented the blue and white LED production technology, also receiving the Nobel Prize for this achievement. Nichia LEDs are the **most efficient** (200 lm / w efficacy), durable (> 100,000 hours) and are also available with unique technologies such as **Optisolis**, CRI98+ natural light spectrum and **RspOa,** special white light for horticulture.
- **Samsung** is in the top 10 of global LED manufacturers and a well-known brand, renowned for the high performance of its products combined with the competitive price
- **Toshiba** is a Japanese conglomerate with a history of more than a century, now specialized in semiconductors, electronics and hardware, with nearly 20,000 employees and an annual turnover of 40 billion USD. Toshiba has built the TRI-R technology and built the LED chips used in **SunLike CRI97+ LEDs** produced by Seoul Semiconductor in South Korea. With the new **SunLike™ TRI-R™** technology from Toshiba-SSC (Seoul Semiconductor) and our strips and modules you can always enjoy a natural light source with the light spectrum very close to the sun.
- **Seoul Semiconductor** is in the top 10 of global LED manufacturers and renowned for innovation, durability and competitive price

Our strips have high quality components and professional support:

- We use LEDs from top brands and have superior designs
- We offer **professional support** for lighting projects
- The PCBs use high quality materials for best resistance, current flow and heat transfer
- Performance values in this datasheet match those in real world applications
- Function perfectly at high temperatures that would destroy many other strips

CONNECTION OF LED MODULE

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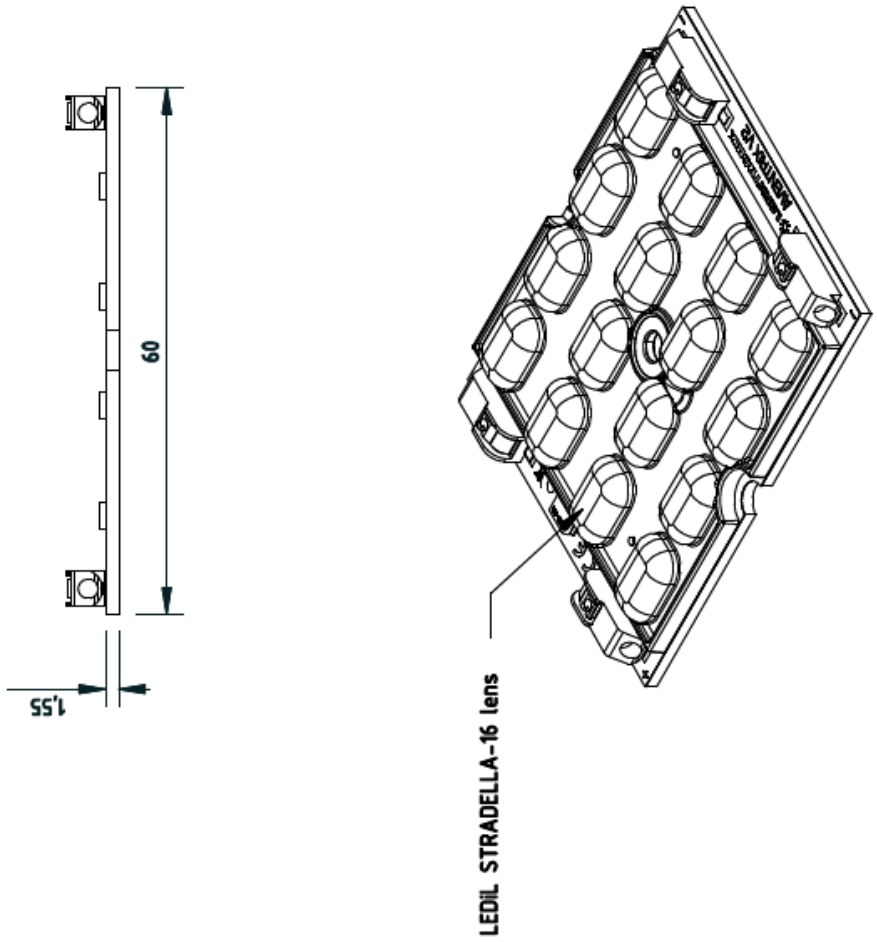

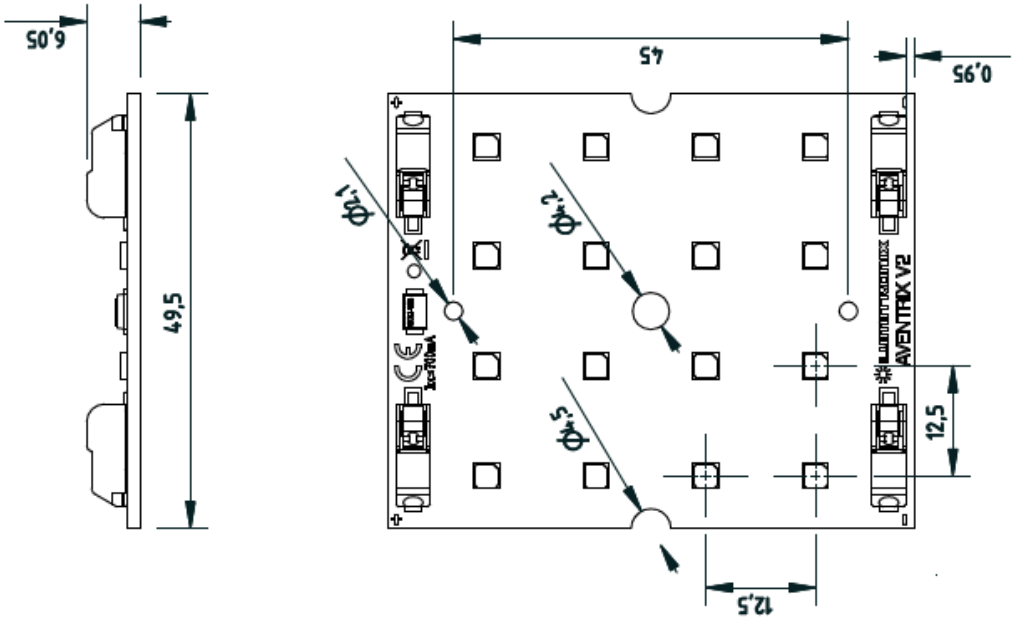

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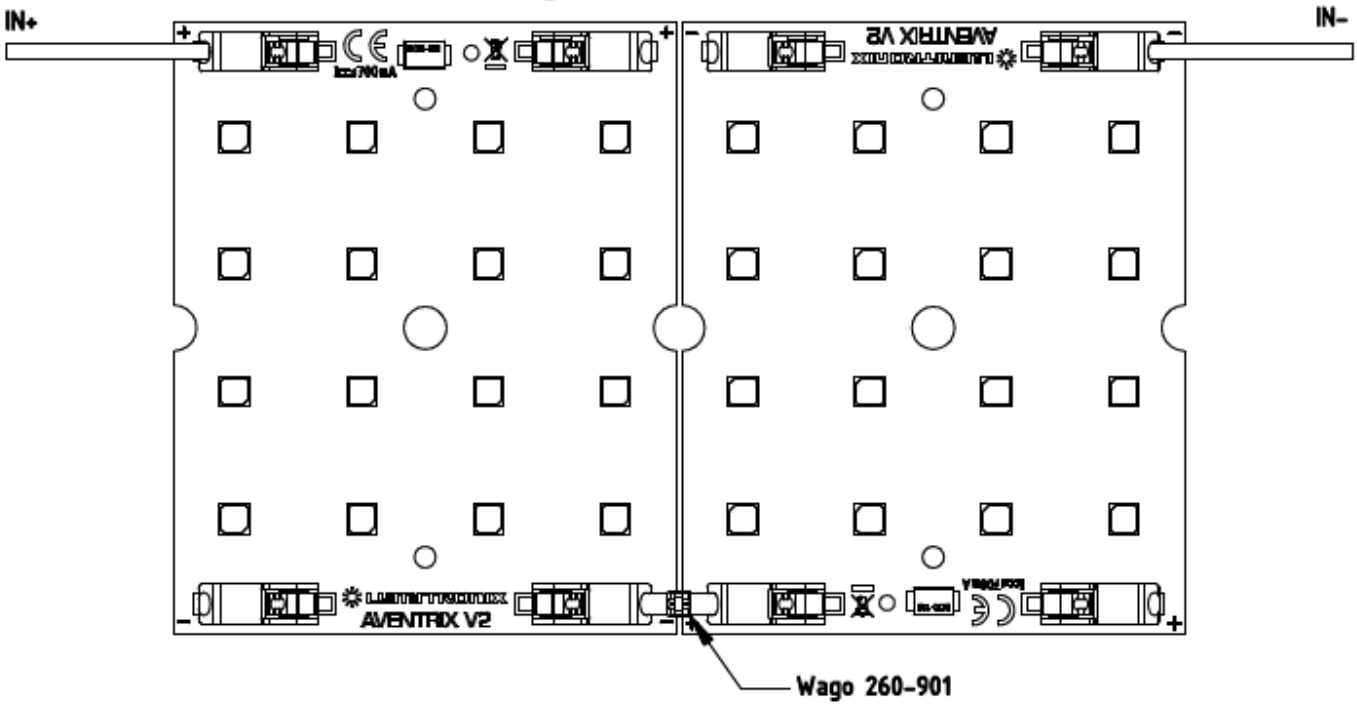
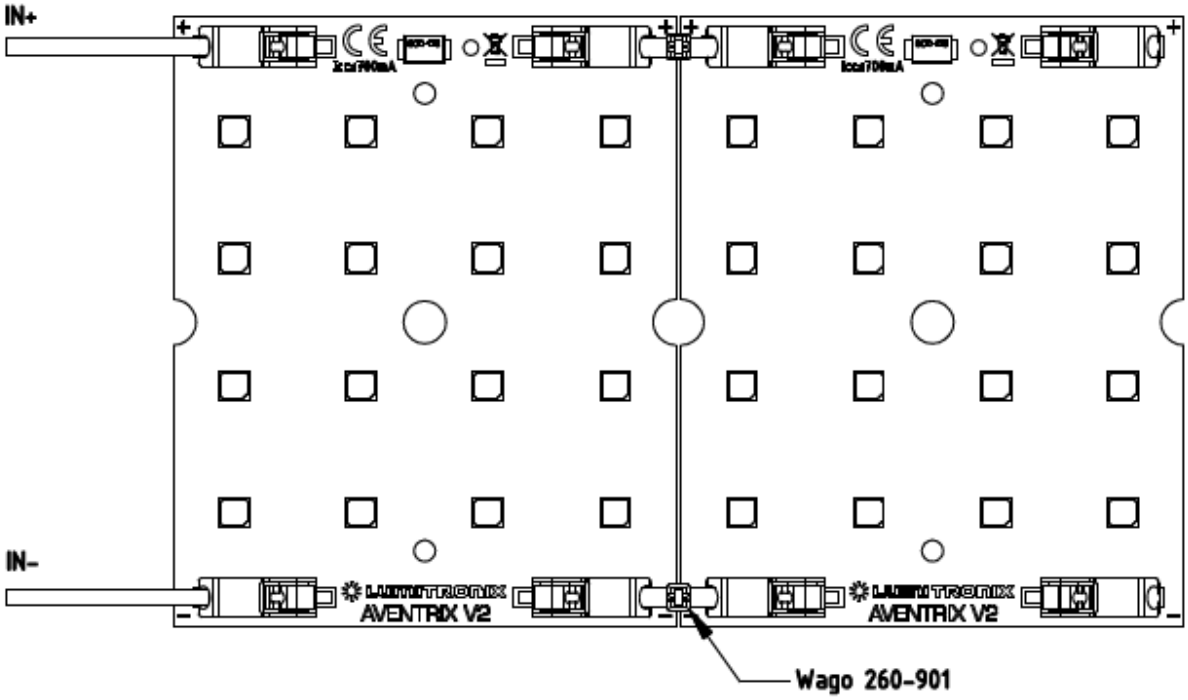
AVENTRIX NICHIA LED MODULE WHITE CRI 80-99 1800-7800K 350MA 16 LEDS 5X6CM INTERCONNECTABLE WITH LENS OPTION

Single row in series connection



Single row parallel connection



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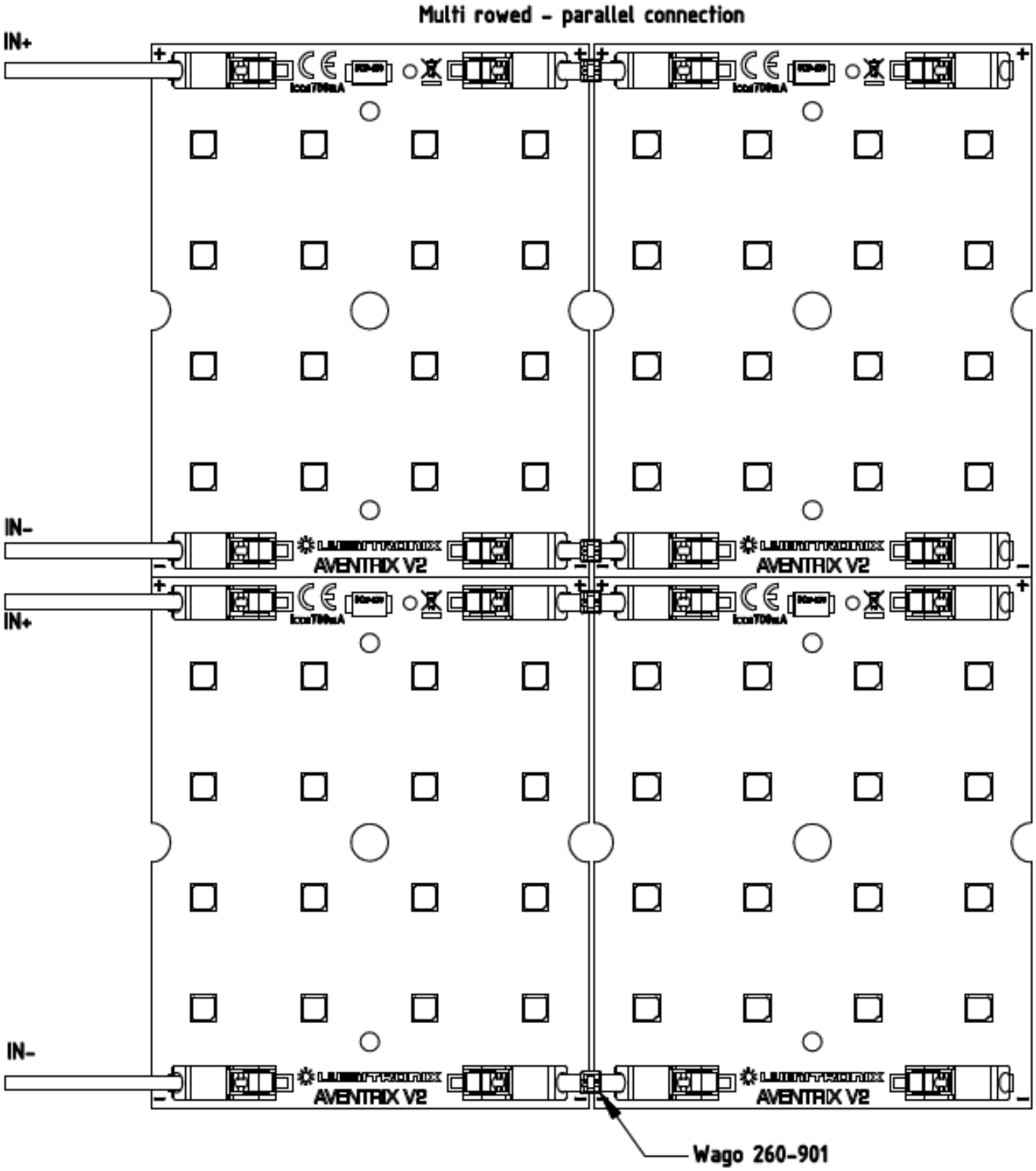

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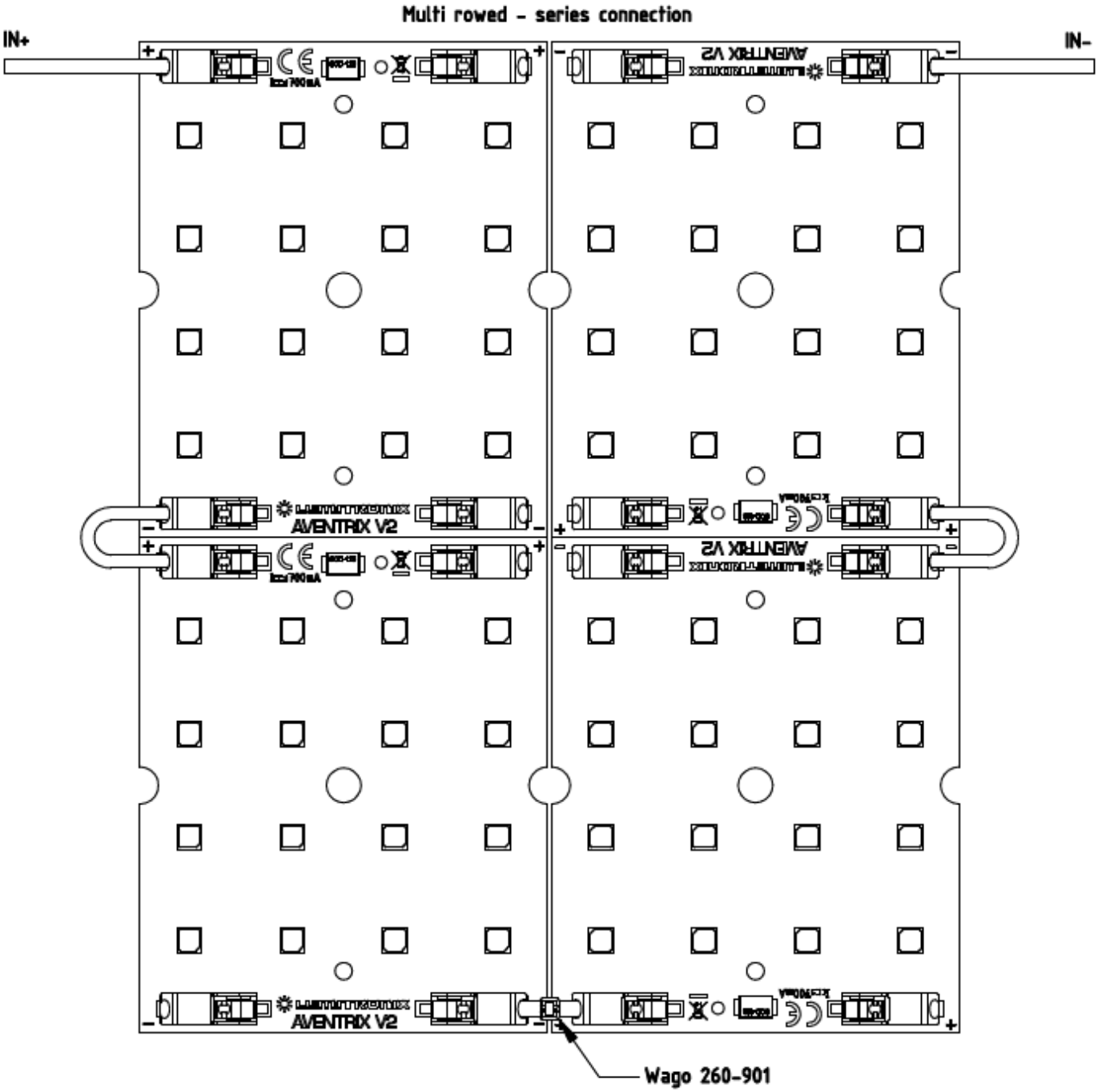

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Due to the special conditions in the production process of LEDs, the specified values are statistical averages. The individual LED may deviate from them.

The LED modules and all their components must not be mechanically stressed.
Avoid undue claw action, e.g. by screwing or excessive bending.
The LED modules must not come into contact with aggressive chemical substances, either in operation or in storage.
The installation of the module (with the operating device) must be carried out in compliance with all applicable electrical and safety standards.
Pay attention to standard ESD precautions when installing the modules.
- The components on the LED modules must not be subjected to mechanical stress.
- The conductive paths on the boards must not be damaged or interrupted by the installation.
- Store and operate the LED modules only at a final humidity of 10% to 60%.
Our LED modules are not protected against overload, overtemperature and short-circuit currents. To operate the modules safely and reliably, it is therefore necessary to use an electronically stabilized power supply unit in which these
in which these safety functions are already integrated. If other power supplies than the ones distributed by us are used, the following protective
the following protective measures must be ensured on the power supply side:
MINIMUM REQUIREMENTS FOR POWER SUPPLIES: Short circuit protection - Overload protection - Overtemperature protection
- The installation of LED modules may only be carried out in compliance with all applicable regulations and standards by an authorized electrician.

We reserve the right to make technical changes.

This LED Module can be purchased via the following websites:
www.ledrise.eu / www.lumistrips.com

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