MST Sp. z o.o. Sp. k.
Chrobrego 8, 11-400 Kętrzyn, Poland
www.mst.pl

Linear LED modules UVC 281x20mm

A linear solution for professional UVC lighting applications. Optimized for LEDiL's VIOLET optics.

Product description

- Long life-time
- Built-in, constant current LED module
- Re-workable push-in terminals enabling easy connection
- Series system, also recognized as a high voltage system - non-SELV

WARNING: UV emitted from this product. Avoid eye and skin exposure to unshielded product.

LinLED UVC G1

Product name	Ordering code	Wavelength [nm]	Current nominal If nom [mA]	Radiant power* [mW]	Voltage* Vf [V]			Power* P [W]	Current minimum If min [mA]	Current maximum If max [mA]
					Min.	Typ.	Max.			
LinLED 281x20mm 425mW UVC 265nm 1x12 80V G1	1010 129 00146	260-270	350	425	51	73	95	25	100	500

*At nominal current and Tp
Tolerance range for optical and electrical ±10%

Temperature & humidity

Specification item	Unit	Value
Tp	[°C]	65
Tc	[°C]	80
Relative humidity (non-condensing)	[%]	5 ... 85
Storage ambient temperature	[°C]	-25 ... +85
Storage relative humidity (non-condesing)	[%]	5 ... 85

Tp - Temperature related to the performance parameters of the LED modules
Tc - Highest permissible value for safe operation

Technical data

Specification item	Unit	Value
Classification acc. to IEC 62031		built-in
Working voltage	[Vdc]	420
Beam angle	[deg]	130
Photobiological safety		RG3

Certificates & standards

Specification item	Compliant
ENEC	No
CE	No
RoHS	Yes
REACH	Yes
Zhaga	No
IP rating	No IP rating

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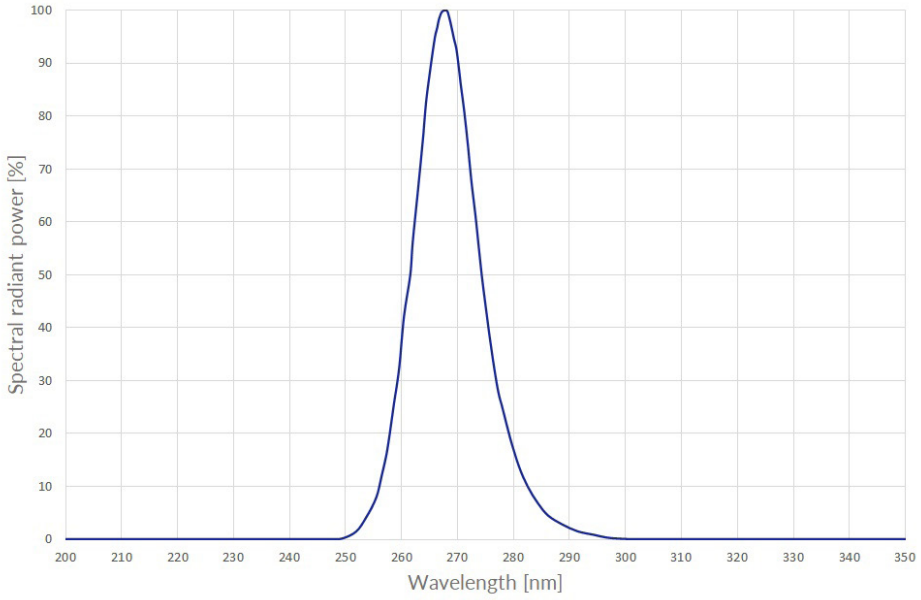
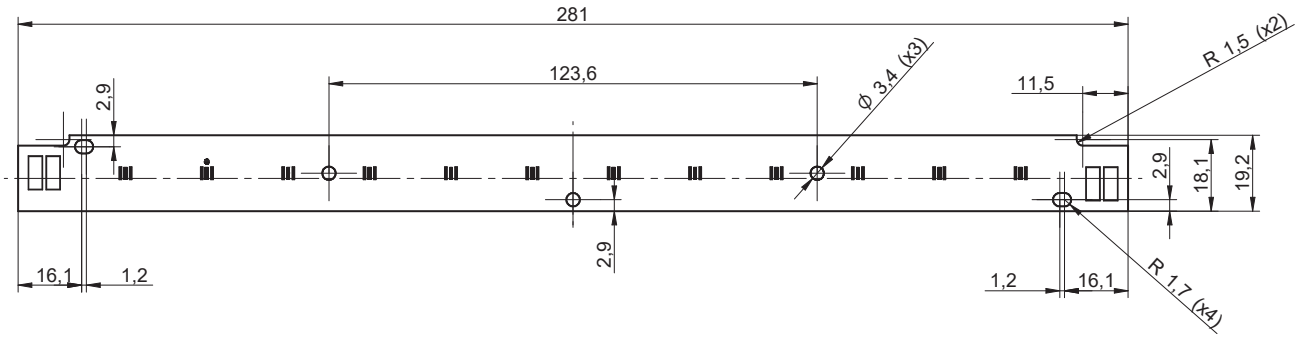
Spectrum



Dimensions



Safety precautions

Deep ultraviolet (UVC) LED modules are an irradiation source and require precautions to ensure safe use. In rare instances of prolonged direct exposure to UVC light, temporary eye and skin damage has been exhibited. Therefore, safety recommendations with UVC LEDs include protecting skin (in particular open wounds) and most importantly - the eyes from UVC radiation.

UV radiation is easily absorbed by clothing, plastic or glass. Once absorbed, UV radiation is no longer active. When working with open UV radiation during maintenance, service or other situations, personal protective equipment covering all exposed areas is recommended.

The effects of acute exposure to UV radiation are usually not severe and many symptoms are delayed. In the event of UV exposure, the following actions are recommended:

- See an ophthalmologist if eye damage is suspected
- Treat skin lesions immediately
- Follow your organization's EHS incident reporting procedure.

source: www.klaran.com/is-uvc-safe

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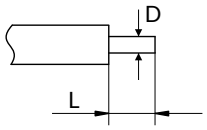
Mounting

LED Modules cannot be exposed to tensile or compressive stresses. For this purpose it is necessary that the modules are assembled to a flat surface by only rounded head screws. Additionally plastic flat washer should be used to ensure creepeage distance between screw's head and surface of the pcb. Max. torque for fixing: 0,5Nm.

LED modules are sensitive to electrostatic discharge (ESD). Follow safety regulations according to IEC 61340-5-1.

Wiring

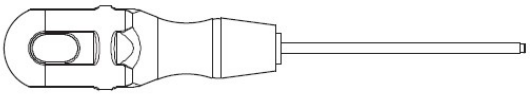
Wire cross section and strip length:



D - wire cross section (solid and flexible wires)	Min	Max
	0.13mm²	0.8mm²
	AWG 26	AWG 18

L - strip length	Min	Max
	4mm	5mm

Opening for the release of wires with contact opening tool AVX art. 06-9296-7001-01-000:



Connections

Max number of modules	Unit	Series	Parallel
LinLED 281x20mm	[pcs]	4	-

Wiring for series connection system