

Datasheet

Zirqle UV LED-strip 365nm Protected (24 Volt, 240 LEDs, 2835, IP64)

LS24UV240X2835PZQ

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Product description

The Zirqle UV-A LED Strip 365 nm delivers high-intensity UV-A illumination for demanding industrial applications. With 240 efficient 2835 LEDs per meter and IP64 silicone protection, it is designed for continuous use in harsh environments. Its flexible design (5 m reels, cuttable every 25 mm) makes it ideal for integration into reactors, photopolymerization setups, curing lines, and R&D environments. Fully compatible with the MaNima Pollux Industrial System for advanced control, real-time monitoring, and automatic protection. An optional NTC sensor can be added for thermal monitoring via Pollux.

Key Specifications

Property	Value / Description
Wavelength	UV-A 365 nm (peak ~369 nm)
Irradiance (5 cm)	Total: ~45.7 W/m ² ; Peak: ~3.5 W/m ²
Beam Angle	120°
LED Specifications	240 LEDs/m, type 2835 SMD
Dimensions	5 m per reel; cuttable every 25 mm; width: 10 mm; height: 4 mm
Power & Consumption	24 V DC; ±1 A/m; ±24 W/m
Protection	IP64 – silicone coating, dust- and splash-water resistant
Mounting	3M VHB-4905 tape
Thermal Monitoring	Optional via external NTC sensor (Pollux-compatible)
Operating Temp.	–20 °C ... +60 °C (storage –40 °C ... +80 °C)
Standards	RoHS, CE, EN60598-1, EN62031, IEC62471

Applications

- Reactor installations and photochemical processes, such as water purification and photopolymerization
- Curing of coatings, inks, resins, and adhesives
- Laboratory and R&D setups for precise UV experiments
- Industrial surface treatment and UV material activation
- Inline inspection with machine vision using fluorescence or photochemical detection

Also applicable in R&D and specialized lighting setups.

Benefits for Engineers

- Consistent and high UV output at 365 nm
- Flexible and modular design, easy to customize
- Robust IP64 construction for industrial environments
- Expandable with optional NTC sensor for thermal monitoring
- Easy integration with standard 24 V systems
- Optimized for reactor and photochemical industrial processes

Integration with MaNima Pollux Industrial System

- Real-time thermal monitoring via optional NTC sensor
- Pulse and strobe modes for flexible UV output
- Automatic thermal protection for continuous use
- Full PLC/SCADA compatibility for process automation
- Open UDP API for advanced control and logging

Technical specifications

General		
Brand	Zirqle	
Application	Curing & Aging Machine Vision UV Inspection	
LEDs / meter	240	
LED type	2835	
Length per reel	5 m	
Length per segment	25 mm	
LED strip width	10.00 mm	
LED strip thickness	4.00 mm	
PCB color	White	
Mantle material	Silicon	
Mounting	3M tape VHB4905	
Lighting		
Wave length UV	365 nm	
Beam angle	120 °	
Measurement results		
Peak wavelength (Object length: 200 mm)	369 nm	
Peak irradiance (Object length: 200 mm)		24V
	5cm	4.09 W/sqm
	10cm	1.52 W/sqm
	15cm	0.81 W/sqm
	20cm	0.48 W/sqm
	25cm	0.31 W/sqm
	30cm	0.23 W/sqm
Total irradiance (Object length: 200 mm)		24V
	5cm	54.96 W/sqm
	10cm	19.88 W/sqm
	15cm	10.47 W/sqm
	20cm	6.28 W/sqm
	25cm	4.15 W/sqm
	30cm	3.08 W/sqm
Electronics		
Working voltage	24V	
Current / meter	1.00 A / meter	
Power consumption per meter	24.00 W / meter	
PCB material	Copper	

Pinout

Symbol	Function
V+	V+
GND	Ground

Environmental

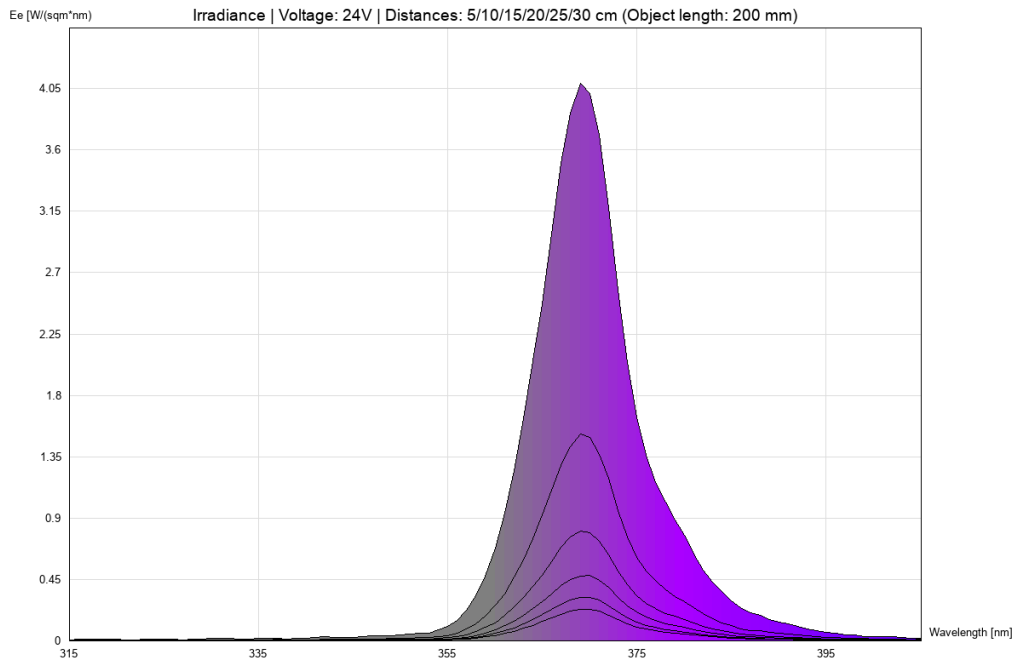
Operating temperature	-20 ~ +60 °C
Storage temperature	-40 ~ +80 °C
IP class	IP 64

Directives - standards - certificates

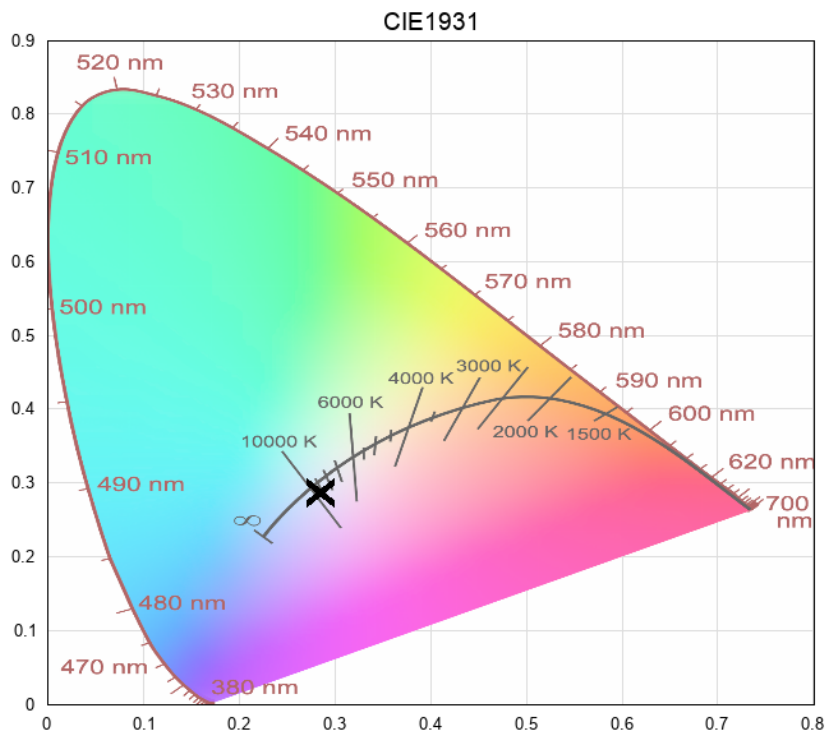
Directives	RoHS CE
Safety standards	EN60598-1 EN62031 IEC62471

Measurement results

irradiance - 315-405-uv-a (24V)



cie1931



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