ASMETEC Technical Products & Services
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METO*LIGHT*® LED-tubes UV-365

Special-UV-LED-tubes for the polymerisation and drying of lacquers and resins

METOLIGHT® UV-LED tubes are specially developed for drying or exposure of UV-sensitive products such as lacquers, paints, resins and other chemicals that are exposed or dried in the 365 nm range.

These products are used in electronics, chip solar industry but also in the optical industry, in the painting and coating industry, in laboratory work and many other technical areas.

The tubes have a non-adjustable base for lights with a G13 socket. They are only contacted on one side. All used electrical components are VDE-compliant and designed for durability. The tubes have a diameter of 26 mm, in accordance with the T8 standard.

The tuvbes are equipped with highly efficient Epistar UV LEDs with 120lm/W, which emit their greatest energy in the wavelength range of 365nm. The integrated power supply is double insulated and flicker-free.

Delivery form:
The UV-tubes UV-365 are available in the common T8-lengths 60 / 120 / 150cm.

Note:
Do not look directly into the light without protective glasses.

Application areas:
METO*LIGHT*® UV-LED-tubes are used in rooms and working areas in which in denen UV-polymerizing products are processed (Printed circuit board / semiconductor industry, printers, paint/lacquer manufacturers) etc. The LED-tubes can be used as a retrofit in luminaires with a G13 socket and integrated CCG or LLCG without conversion . In lights with electronic ballast, they have to be removed by a qualified electrician. We offer an adapter clamp (item 101606) for quick and easy conversion.

Compared to conventional light sources, they are characterized by their enormous efficiency and durability. The lights can be prosecuted up to 20.000 hours and longer. The drop in performance is only about 1%/1000 operating hours. The average service life of a conventional fluorescent tube is around 8000 hours. The energy saving is around 80% compared to fluorescent tubes operated on the CCG.

3 years warranty:
We offer a 3-year guarantee on our UV-365 LED tubes. If a defect occurs during this time, the LED tube will be repaired or replaced free of charge. (However, assembly work and freight routes are not covered by our guarantee. You can find further details in our guarantee conditions for LED UV tubes.

The most important advantages of the METOLIGHT UV LED tubes at a glance:

- Up to 80% electricity cost savings compared to conventional fluorescent tubes
- Average service life of more than 20,000 operating hours
- Double-insulated power supply unit and internal wiring, electronic fuse integrated - VDE-compliant
- Full luminosity right from the start without flickering or preheating, without 50 Hz
- High resistance to shock and vibration, largely unbreakable
- Minimal heat emission due to high energy efficiency
- Corresponding lower CO2 emissions due to lower power consumption – your contribution to the environment
- CE and RoHS-compliant, no hazardous waste, no mercury

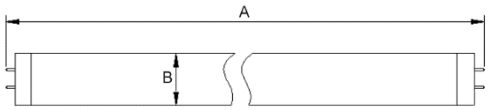
RoHS WEEE konform bleifrei

We are offering following uv-tubes from UV365:

Artikel-No	Code	Lumen	efficiency	length	Replaces CFL
101581	LT-UV-365-060	1200 lm	10 W	600 mm	18 Watt
101538	LT-UV-365-120	2100 lm	18 W	1200 mm	36 Watt
101540	LT-UV-365-150	3000 lm	25 W	1500 mm	58 Watt

Common technical data in overview

Typical data, typ. tolerance 5%



	60 cm	120 cm	150 cm
Measurements			
Length A (mm)	603	1212	1513
diameter B (mm)	26	26	26
weight	202 g	360 g	465 g
Light technic. data			
Light efficiency	>120 lm/W	>120 lm/W	>120 lm/W
wavelength	365 nm		
colour	CRI > 80		
Light angle	140°		
Typ. Operating time	> 20.000 h		
Available covers	clear(C)		
Electr. Data			
Input voltage	85 – 265 V AC		
Frequency	50 / 60 Hz		
Connected load	10 W	18 W	25 W
Power factor	0,95		
Frequency	50 / 60 Hz		
Switching cycles	> 120.000		
Dimmable?	No		
Working area			
Working temp.	0 - +40°C		
Storage temp.	-20 - +40°C		
Rel. humidity	< 90 rH		
Protection class	IP20		

Notes

Only use in dry indoor areas
Do not operate in hermetically sealed luminaires
Do not operate on dimmers
Installation only in a voltage-free state
Operate on CCG / LLCG only with LED starter 101495
Not suitable for ECG (electronic ballast
Not resistant to alkaline cleaning agents
Do not use in an alkaline environment

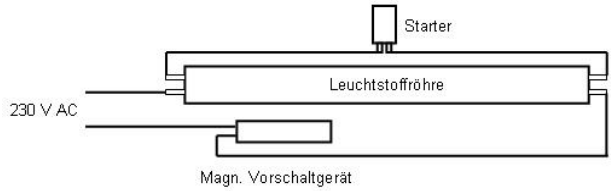
CE-conformation according to:

EN 50581:2012, EN55015:2013, EN60598-1:2009, EN60598-2-2:2012, EN60968:1990, EN60969, EN61000-3-2/2006, EN61000-3-3:2013, EN 61547:2013, EN62031:2008, EN62321:2013, EN62471:2008, EN62493:2010, EN62530:2012, EN62776

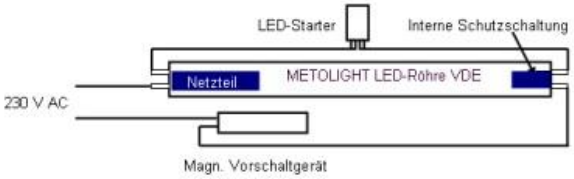
Circuit diagram of the lamp with CCG or LLCG and starter

Important: LED tubes must also be secured in lights without a grate or tray using clamps or cable ties.

Originalley with fluorescent tubes



after inserting METOLIGHT LED-Tubes



Note: The METOLIGHT® LED tubes of the above series are only connected to the mains on one side (labelled “230 V AC”). The opposite side has an internal bridge or short-circuit protection circuit (VDE / VDE-R). Both pins are electrically connected to each other, but without contact to the circuit board or the internal power supply. This prevents current leakage and the risk of electric shock. However, this wiring requires the use of a special LED starter (item 101495) instead of the usual fluorescent tube starter. The METOLIGHT® LED starter also has a built-in fuse (Asmetec patent no. 20 2010010 536.6) and protects the light array in the event of an internal defect. The CCG can remain wired, there is no conversion of the lamp! Existing test certificates for the luminaire are retained.

Luminaires with electronic ballast (EVG) must be converted.

Note: If you convert a light, it loses existing type approvals. You are personally responsible for all possible consequences and are considered the manufacturer of the lamp. Tests must be carried out on any modified lamp to demonstrate that the lamp is safe. It is recommended to apply DIN VDE 0701-0702 "Test after repair, modification of electrical devices - Periodic testing of electrical devices - General requirements for electrical safety". The modified lamp must be provided with a new type plate.

Wiring of a lamp with electronic ballast:

On the left is the usual wiring of fluorescent tubes on the electronic ballast. 4 cables at the output of the electronic ballast, 2 each are connected to the two contacts in a G13 socket.

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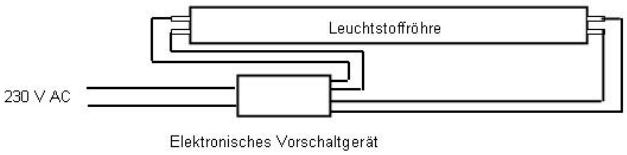
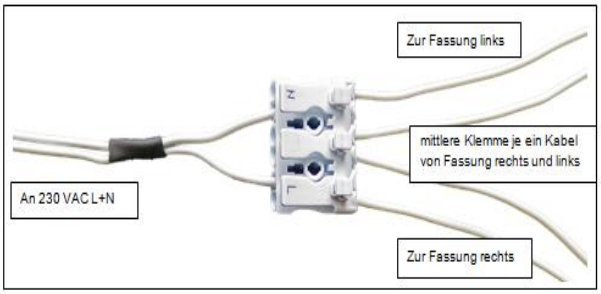


Top right: In order to use such lights with METOLIGHT® LED tubes, the electronic ballast must be completely disconnected. A one-pin connection must be made between the two G13 sockets.

With our adapter clamp 101606, the lamp can be converted quickly and easily.



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