



# Philips UV-C batten, the power to protect

## UV-C disinfection batten

The UV-C batten is designed for the disinfection of surfaces and is suitable for a wide range of applications. The UV-C batten provides universal UV-C irradiance with homogenous distribution. Its disinfection capability is based on wattage used and a specific exposure time for a given distance from that surface. No person should be present at the time of usage, due to high risk of harm to eyes and skin. The performance is enhanced by a highly-reflective and durable aluminum body, which improves its efficacy even further and directs the UV-C light to the to-be-irradiated surfaces. The lamp holders and end caps are protected against UV-C thanks to dedicated shielding. There is a 1- and 2-lamp version available, for both the bare batten and reflector batten. This offers even a greater flexibility.

### Benefits

- UV-C light effectively deactivates most viruses and germs on directly irradiated surfaces\*1. UV-C surface disinfection products, fitted with our UV-C light sources, can inactivate SARS-CoV-2 virus on surfaces by more than 99% to below detectable levels\*2.
- Proven, effective disinfection over the useful long lifetime of lamp and luminaire
- Environmentally friendly - no ozone emissions during or after use
- Combined with safeguards such as controlled-access devices, it is used safely
- \*1 Fluence (UV Dose) Required to Achieve Incremental Log Inactivation of Bacteria, Protozoa, Viruses and Algae Revised, updated and expanded by A. Haji Malayeri, M. Mohseni, B. Cairns and J.R. Bolton. With earlier contributions by Gabriel Chevretils (2006) and Eric Caron (2006) With peer review by B. Barbeau, H. Wright (1999) and K.G. Linden.\*2 Nadia Storm et al, Rapid and complete inactivation of SARS-CoV-2 by UV-C irradiation, 2020. Report available at <https://www.nature.com/articles/s41598-020-79600-8>. The UV-C irradiance used in this study was 0.849 mW/cm<sup>2</sup>.

## UV-C disinfection batten

### Features

- Lamp configurations possible: 1-lamp or 2-lamps version
- Available with or without reflectors
- Philips T8 TUV lamp included: 18W or 36W
- Shortwave UV radiation peak at 253.7 nm (UVC)
- High reflective aluminum housing for better reflectivity and performance
- All plastic components are protected by dedicated UV-C shielding
- Various mounting options
- Complies with all applicable regulations and standards

### Application

- Retail: Keep shopping carts, shelves and counters free from contamination
- Hair and beauty salons: Disinfect client rooms, operating floor, mirrors, chairs surfaces, and other sensitive areas
- Schools: Disinfect classroom walls, floors, desks and surfaces
- Offices: Neutralize work rooms, meeting spaces and corridors
- Banking: Disinfect counters, cash machines and work surfaces
- Hospitality: Disinfect guest rooms, reception areas and health facilities
- Food outlets: Eliminate bacteria on preparation surfaces and equipment
- Washrooms: Disinfect vanity units, basins and mirrors

### Warnings and Safety

- DANGER: Risk Group 3 UV product. Like any disinfection system, UV-C lamps and devices must be installed and used in the correct way.
- Direct exposure to UV-C can be dangerous and result in a sunburn-like reaction to the skin and serious damage to the cornea. As UV-C is invisible to the eye, the UV-C batten must be installed together with adequate safeguards to ensure that the UV-C batten can be operated in a safe way. The UV-C battens are only to be used as components in a system that consists of adequate safety safeguards such as, but not limited to, those indicated in the mounting instruction and/or user manual.
- Philips UV-C devices must only be sold through qualified partners and installed by professionals according to our stringent safety and legal requirements. Our UV-C products are not meant to be used in applications or activities which may cause and/or lead to death, personal injury and/or damage to the environment.
- Disclaimer:
- The UV-C battens' effectiveness in the inactivation of certain viruses, bacteria, protozoa, fungi or other harmful micro-organisms is as described under Benefits. Signify and its group of companies do not promise or warrant that the use of UV-C battens will protect or prevent any user from infection and/or contamination with any harmful micro-organisms, illness or disease. The UV-C battens are not approved for, are not intended and must not be used to disinfect medical devices. In addition to and without limitation of any exclusions or limitations of liability of Signify and its group of companies as set forth in any agreement for sale, distribution or otherwise making available of UV-C battens, Signify and its group of companies shall have no responsibility or liability whatsoever for any claim or damage that may arise from or relate to any use of UV-C battens outside of their intended use or contrary to their installation and operation instructions, each as described under Applications, the user manual and/or mounting instruction.

# UV-C disinfection batten

## Versions



TMS030 UV-C batten



TMS030 UV-C batten



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## Product details



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# UV-C disinfection batten

## Application Conditions

Ambient temperature range	+20 to +40 °C
Suitable for random switching	Not applicable

## Approval and Application

Mech. impact protection code	IK02
Ingress protection code	IP20

## Controls and Dimming

Dimmable	No
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## Operating and Electrical

Inrush current	18 A
Inrush time	0.25 ms
Input Frequency	50 or 60 Hz
Input Voltage	220 to 240 V
Power Factor (Min)	0.96

## General Information

Cable	-
CE mark	CE mark
Protection class IEC	Safety class I
Connection	Screw connection block 3-pole
ENEC mark	-
Flammability mark	For mounting on normally flammable surfaces
Gear	HFP
Glow-wire test	Temperature 650 °C, duration 30 s
Number of gear units	1 unit
Number of light sources	1 or 2 pcs
Number of products on MCB of 16 A type B	28
Optic type	-
Product Family Code	TMS030
EU RoHS compliant	No
Warranty period	1 years

## Initial Performance (IEC Compliant)

Power consumption tolerance	+/-11%
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## Mechanical and Housing

Color	Aluminum
Housing Material	Aluminum Alloy
Optic material	-
Reflector material	Aluminum

## Initial Performance (IEC Compliant)

Order Code	Full Product Name	Initial input power
910925867659	TMS030 1xT8 36W/TUV HFP	38 W
910925867661	TMS030 1xT8 18W/TUV HFP	24 W
910925867660	TMS030 2xT8 36W/TUV HFP	68 W
910925867662	TMS030 2xT8 18W/TUV HFP	45 W
910925867663	TMS030 1xT8 36W/TUV HFP R	38 W
910925867664	TMS030 2xT8 36W/TUV HFP R	68 W
910925867665	TMS030 1xT8 18W/TUV HFP R	24 W
910925867666	TMS030 2xT8 18W/TUV HFP R	45 W

## UV-C disinfection batten

Order Code	Full Product Name	Overall height
910925867659	TMS030 1xT8 36W/TUV HFP	96 mm
910925867661	TMS030 1xT8 18W/TUV HFP	96 mm
910925867660	TMS030 2xT8 36W/TUV HFP	85 mm
910925867662	TMS030 2xT8 18W/TUV HFP	85 mm

Order Code	Full Product Name	Overall height
910925867663	TMS030 1xT8 36W/TUV HFP R	93 mm
910925867664	TMS030 2xT8 36W/TUV HFP R	93 mm
910925867665	TMS030 1xT8 18W/TUV HFP R	93 mm
910925867666	TMS030 2xT8 18W/TUV HFP R	93 mm

## UV

Order Code	Full Product Name	UV-C irradiance defined at 20cm	UV-C irradiance defined at 2m	UV-C radiation
910925867659	TMS030 1xT8 36W/TUV HFP	4000 $\mu\text{W}/\text{cm}^2$	40 $\mu\text{W}/\text{cm}^2$	11.5 W
910925867661	TMS030 1xT8 18W/TUV HFP	2400 $\mu\text{W}/\text{cm}^2$	24 $\mu\text{W}/\text{cm}^2$	6.6 W
910925867660	TMS030 2xT8 36W/TUV HFP	8000 $\mu\text{W}/\text{cm}^2$	80 $\mu\text{W}/\text{cm}^2$	22.5 W
910925867662	TMS030 2xT8 18W/TUV HFP	4600 $\mu\text{W}/\text{cm}^2$	46 $\mu\text{W}/\text{cm}^2$	13 W

Order Code	Full Product Name	UV-C irradiance defined at 20cm	UV-C irradiance defined at 2m	UV-C radiation
910925867663	TMS030 1xT8 36W/TUV HFP R	8700 $\mu\text{W}/\text{cm}^2$	87 $\mu\text{W}/\text{cm}^2$	10.5 W
910925867664	TMS030 2xT8 36W/TUV HFP R	14300 $\mu\text{W}/\text{cm}^2$	143 $\mu\text{W}/\text{cm}^2$	18 W
910925867665	TMS030 1xT8 18W/TUV HFP R	4600 $\mu\text{W}/\text{cm}^2$	46 $\mu\text{W}/\text{cm}^2$	6 W
910925867666	TMS030 2xT8 18W/TUV HFP R	8000 $\mu\text{W}/\text{cm}^2$	80 $\mu\text{W}/\text{cm}^2$	10.5 W

