

PHILIPS

UV-C disinfection batten



Philips UV-C batten

The power to protect

UV-C 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. 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 effectively inactivates many viruses and germs on directly irradiated surfaces.¹ Moreover, in laboratory testing, Signify's UV-C light sources inactivated 99% of SARS-CoV-2 virus on a surface with an exposure time of 6 seconds.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.
- Can be used in numerous applications.

Features

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

¹ Fluence (UV Dose) Required to Achieve Incremental Log Inactivation of Bacteria, Protozoa, Viruses and Algae Revised, updated and expanded by Adel Haji Malayeri, Madjid Mohseni, Bill Cairns and James R. Bolton. With earlier contributions by Gabriel Chevretils (2006) and Eric Caron (2006) With peer review by Benoit Barbeau, Harold Wright (1999) and Karl G. Linden.

² Data made available to us by the National Emerging Infectious Diseases Laboratories (NEIDL) at Boston University, which has been collected from a laboratory experiment conducted by Dr. Anthony Griffiths (Associate Professor of Microbiology at Boston University School of Medicine) and his team at the premises of the NEIDL (such data will be the subject of a forthcoming scientific publication by Boston University), shows that Signify's UV-C light sources irradiating the surface of a material inoculated with SARS-CoV-2 (the virus that causes the COVID-19 disease) at a UV-C dose of 5mJ/cm² (exposure time 6 seconds) resulted in a 99% reduction of the SARS-CoV-2 virus present on that surface. This study determined that a UV-C dose of 22mJ/cm² results in a reduction of 99.9999% of SARS-CoV-2 virus on that surface (exposure time 25 seconds). Research variables are available upon request.

UV-C batten

Application

The batten disinfects surfaces that are directly exposed to the UV-C light, emitted by the UV-C batten. The batten may not be used in the presence of any persons or animals.

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.
Transportation	Disinfect passengers' waiting spaces.

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 instructions and/or user manuals.

Direct exposure to UV-C is dangerous. Philips UV-C products 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 above under the heading "Benefits". Signify and its group of companies do not promise or warrant that the use of the UV-C battens will protect or prevent any user from infection and/or contamination with any viruses, bacteria, protozoa, fungi, illness or disease. The UV-C battens are not approved for, are not intended and must not be used as medical devices, as such term may be defined under the applicable laws of the countries in which the battens are made available. 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 the sale, distribution or otherwise making available of the 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 the UV-C battens outside of their intended use or contrary to their installation and operation instructions, each as described in this document under the heading "Application", the user manuals and/or the mounting instructions.

UV-C batten

Versions



**TMS160C 1X36W
TUV SLV/6**



**TMS160C 2X36W
TUV SLV/6**



**TMS160C 1X36W
TUV SLV/6 R**



**TMS160C 2X36W
TUV SLV/6 R**



Aluminum Reflector



Aluminum Cover

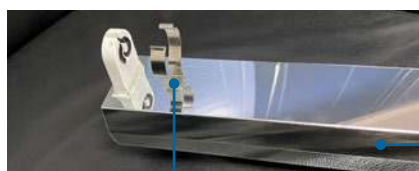


BJB Lamp holder



**Accessories (included
with packaging)**

Safety features



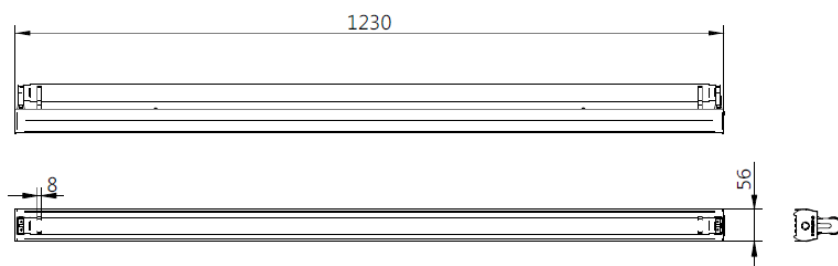
Aluminum clip for extra safety
for holding UV-C lamp

Aluminum cover for better
housing protection & UV-C
efficacy improvement

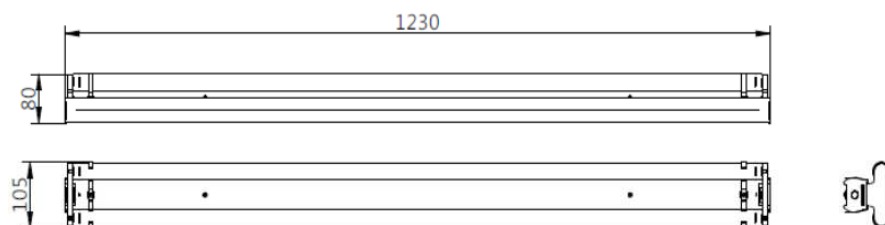
UV-C batten

Dimensional drawing

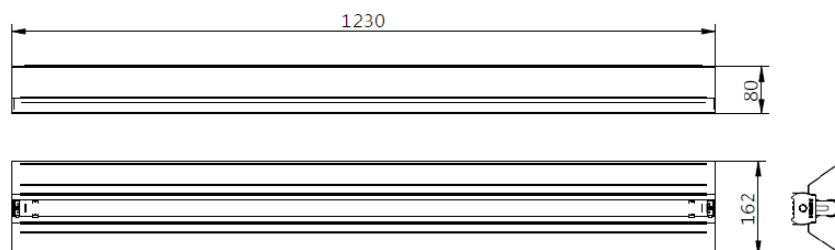
TMS160C 1X36W TUV SLV/6



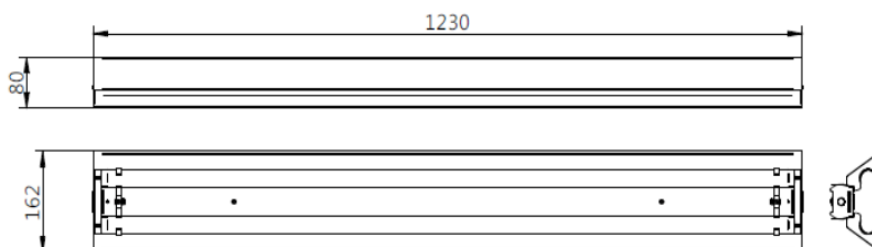
TMS160C 2X36W TUV SLV/6



TMS160C 1X36W TUV SLV/6 R



TMS160C 2X36W TUV SLV/6 R



12NC	Description	Dimension (mm)	Weight (KG)
911401524471	TMS160C 1X36W TUV SLV/6	1230*56*80	1,00
911401524571	TMS160C 1X36W TUV SLV/6 R	1230*162*80	1,90
911401524871	TMS160C 2X36W TUV SLV/6	1230*105*80	1,14
911401524971	TMS160C 2X36W TUV SLV/6 R	1230*162*80	2,04

UV-C batten

Input voltage, Frequency	220-240V~(±10%), 50/60Hz
Power Factor (full load)	≥ 0.9
Electrical class	Class I
External wiring	terminal block inside with a hole on the casing
Lamp holder type	G13 ([Medium Bi-Pin Fluorescent])
Ballast	913713031566 HF-P 136 TL-D III 220-240V 50/60 Hz 913713031666 HF-P 236 TL-D III 220-240V 50/60 Hz
Housing material	SPCC, thickness = or > 0.4mm
Top cover	Anodize aluminum sheet, Thickness 0.4 mm
IP protection	IP20
IK protection	IK02
Installation	Surface & Suspended mounting
Working temperature	-10°C ~45°C
Sustainability	China RoHS 2.0 & REACH
Approbation	CCC/CB/EMC/CE/SAA/IEC60598 (Safety)
Packaging	sell in kit, (6 Batten + 6 Lamp)
Lifetime	25,000 hours
Switch cycle	>35,000 times (daily on and off 10 times)
warranty	1 year
Lamp type	Philips TUV T8 36w SLV/6 (12NC 928048604003)
Mercury (Hg) Content (Nom)	2 Mg
Lamp Effective Lifetime	9000 Hrs
Net Weight	135.00 Gm
Power Rated	36W
UV-C Radiation at 100 hr	15.0 W
Color Code	TUV
Depreciation at Useful Lifetime	10%

Operating and Electrical

Full Product Name	Lamp Current	Voltage	Power	Order Code
	A	V	W	GPC
TMS160C 1X36W TUV SLV/6	0.18	220-240	36	911401524471
TMS160C 2X36W TUV SLV/6	0.36	220-240	2x36	911401524871
TMS160C 1X36W TUV SLV/6 R	0.18	220-240	36	911401524571
TMS160C 2X36W TUV SLV/6 R	0.36	220-240	2x36	911401524971

UV-C radiation

Full Component Name	UV-C Radiation	Order Code
	W	GPC
TMS160C 1X36W TUV SLV/6	14	911401524471
TMS160C 2X36W TUV SLV/6	28	911401524871
TMS160C 1X36W TUV SLV/6 R	12.5	911401524571
TMS160C 2X36W TUV SLV/6 R	24	911401524971



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