

PRODUCT DATASHEET

ST5HE28-AC 16 W/3000 K 1149 mm

SubstiTUBE T5 100-240V AC | LED tubes for operation on AC mains connection



Areas of application

- Offices, public buildings
- Supermarkets and department stores
- Industry
- General illumination within ambient temperatures from -20...+45 °C

Product benefits

- No bending thanks to glass technology
- Shatter protection thanks to special PET coating
- High luminous flux for sophisticated lighting tasks

Product features

- LED replacement for T5 fluorescent lamps with G5 base on AC mains
- Lamp tube made of glass with splinter protection e.g. for food industry applications
- High color consistency: ≤ 5 sdc_m
- Lifetime up to 50,000 h
- Low flicker according to EU 2019/2020
- Type of protection: IP20

TECHNICAL DATA

Electrical data

Nominal wattage	16 W
Construction wattage	16.00 W
Nominal voltage	100...240 V
Operating mode	AC
Nominal current	165 mA
Type of current	AC
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Total harmonic distortion	< 20 %
Power factor λ	> 0.90

Photometrical data

Luminous flux	2150 lm
Luminous efficacy	134 lm/W
Light color (designation)	Warm White
Color temperature	3000 K
Color rendering index Ra	> 80
Light color	830
Standard deviation of color matching	≤ 5 sdc _m

Light technical data

Beam angle	> 160.00 °
Starting time	< 0.5 s

Dimensions & Weight



Overall length	1149.00 mm
Diameter	16.50 mm
Product weight	200.00 g

Temperatures & operating conditions

Ambient temperature range	-20...+45 °C
Maximum temperature at tc test point	62 °C

Lifespan

Lifespan L70/B50 at 25 °C	50000 h
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Additional product data

Base (standard designation)	G5
Mercury content	0.0 mg
Mercury-free	Yes
Design / version	Frosted

Capabilities

Dimmable	No
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Certificates & Standards

Type of protection	IP20
Standards	CB / IEC62776

Country-specific categorizations

Order reference	ST5HE28-1.2M16W
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LOGISTICAL DATA

Temperature range at storage	-20...+80 °C
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Energy labelling regulation data acc EU 2019/2015

Lighting technology used	LED
Light source cap-type (or other electric interface)	G5
Length	1149.00 mm
Height	16.50 mm
Width	16.50 mm

Safety advice

- Not suitable for operation with electronic control gear.
- Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.
- The operating temperature range of LED tube is restricted. In case of doubt regarding suitability of the application please measure Tc temperature on the product prior to installation.

DOWNLOAD DATA

Photometric and lighting design files	Document name
 IES file (IES)	ST 5HE 28 1.2M 16W 830

Photometric and lighting design files	Document name
Light distribution curve type polar	ST 5HE 28 1.2M 16W 830

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854098543	Sleeve 1	1,165 mm x 20 mm x 24 mm	218.00 g	0.56 dm ³
4099854098550	Shipping box 10	1,245 mm x 140 mm x 85 mm	2573.00 g	14.82 dm ³

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.