

PRODUCT DATASHEET

ST5HE21-UN 10 W/4000 K 849.00 mm

SubstiTUBE T5 UN | LED tubes for electronic high frequency control gears and AC mains



Areas of application

- General illumination within ambient temperatures from -20...+50 °C
- Industry
- Public buildings, shopping centers
- Offices

Product benefits

- No bending thanks to glass technology
- Shatter protection thanks to special PET coating
- Also suitable for operation at low temperatures
- High luminous flux for sophisticated lighting tasks

Product features

- Compatible with many common electronic control gears (see also compatibility list) and line voltage
- Lamp tube made of glass with splinter protection e.g. for food industry applications
- For especially uniform illumination



TECHNICAL DATA

Electrical data

Nominal wattage	10 W
Construction wattage	10.00 W
Nominal voltage	220...240 V
Operating mode	Electronic control gear (ECG), Line voltage
Nominal current	50 mA ¹⁾
Type of current	AC
Inrush current	29.7 A
Operating frequency	50...60 Hz
Mains frequency	50...60 Hz ²⁾
Max. lamp number on MCB B10 A	108
Max. lamp number on MCB B16 A	174
Total harmonic distortion	< 20 %
Power factor λ	> 0.90

1) 150-320 mA for ECG (HF)

2) 40-95KHz for ECG (HF)

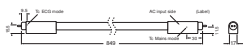
Photometrical data

Luminous flux	1500 lm
Luminous efficacy	150 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool White
Color temperature	4000 K
Color rendering index Ra	83
Light color	840
Standard deviation of color matching	≤5 sdcn

Light technical data

Beam angle	160 °
Warm-up time (60 %)	≤ 0.50 s
Starting time	< 0.5 s

Dimensions & Weight



Overall length	849.00 mm
Length with base excl. base pins/connection	849,00 mm
Diameter	17.00 mm
Tube diameter	16 mm
Base diameter	17,0 mm
Maximum diameter	22 mm
Product weight	102.00 g

Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Maximum temperature at tc test point	75 °C

Lifespan

Number of switching cycles	200000
Lumen maintenance at end of service lifetime	0.70
Rated lamp survival factor at 6,000 h	≥ 0.90

Additional product data

Base (standard designation)	G5
Mercury content	0.0 mg
Mercury-free	Yes

Capabilities

Dimmable	No
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Certificates & Standards

Energy efficiency class	A++ ¹⁾
Energy consumption	10.00 kWh/1000h
Type of protection	IP20
Standards	CE
Photobiological safety group acc. to EN62778	RG0

¹⁾ Energy efficiency class (EEC) on a scale of A++ (highest efficiency) to E (lowest efficiency)

Country-specific categorizations

Order reference	ST5HE21-0.9M 10
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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

Light source cap-type (or other electric interface)	G5
Length	849.00 mm
Height	17.00 mm
Width	17.00 mm

DOWNLOAD DATA

Documents and certificates		Document name
	Extended installation guide	Installation instructions for SubstiTube
Photometric and lighting design files		Document name
	IES file (IES)	ST5HE21 0,9M 10W 840 230V UN
	LDT file (Eulumdat)	ST5HE21 0,9M 10W 840 230V UN
	Light distribution curve type polar	ST5HE21 0,9M 10W 840 230V UN

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075138162	Sleeve 1	865 mm x 20 mm x 24 mm	117.00 g	0.42 dm ³
4058075138179	Shipping box 10	918 mm x 153 mm x 80 mm	1514.00 g	11.24 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.