

## PRODUCT DATASHEET

### SUBSTITUBE ECO DE T8 WITH SAFETY GUARD PIN 22 W/3000 K 1200 MM

SUBSTITUBE ECO T8 | Double-ended LED T8 with Safety Guard Pin



#### Areas of application

- Train stations
- Offices
- Underground stations
- Supermarkets and department stores
- Parking lots, warehouses, production areas, stairways

#### Product benefits

- High luminous flux for sophisticated lighting tasks
- Easy installation
- High luminous efficacy compared with standard lamps

#### Product features

- T8 LED tube made of glass with G13 base
- Double-end input design
- Mercury-free lamps
- Type of protection: IP20



TECHNICAL DATA

Electrical data

Nominal wattage	22 W
Construction wattage	22.00 W
Nominal voltage	220...240 V
Nominal current	165 mA
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz

Photometrical data

Luminous flux	2250 lm
Luminous efficacy	102 lm/W
Light color (designation)	Warm White
Color temperature	3000 K
Color rendering index Ra	80
Light color	830
Standard deviation of color matching	≤6 sdcn

Light technical data

Starting time	< 0.5 s
---------------	---------

Dimensions & Weight

Overall length	1200.00 mm
Diameter	28.00 mm
Maximum diameter	28 mm
Product weight	188.00 g

Temperatures & operating conditions

Ambient temperature range	-20...+45 °C
Maximum temperature at tc test point	<75 °C

Lifespan

Number of switching cycles	50000
----------------------------	-------

Additional product data

Base (standard designation)	G13
Mercury content	0.0 mg

Mercury-free	Yes
Design / version	Frosted

Capabilities

Dimmable	No
----------	----

Certificates & Standards

Type of protection	IP20
Standards	ROHS / EMC

Country-specific categorizations

Order reference	ST8E-1.2M 22W/8
-----------------	-----------------




LOGISTICAL DATA

Temperature range at storage	-20...+80 °C
------------------------------	--------------

Energy labelling regulation data acc EU 2019/2015

Light source cap-type (or other electric interface)	G13
Length	1200.00 mm
Height	28.00 mm
Width	28.00 mm

DOWNLOAD DATA

Photometric and lighting design files		Document name
	IES file (IES)	ST8E 1.2M 22W 830 230VAC DE
	LDT file (Eulumdat)	ST8E 1.2M 22W 830 230VAC DE
	Light distribution curve type polar	ST8E 1.2M 22W 830 230VAC DE

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854205200	Sleeve 1	1,220 mm x 28 mm x 28 mm	207.00 g	0.96 dm³
4099854205217	Shipping box 25	1,270 mm x 167 mm x 185 mm	6161.00 g	39.24 dm³

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.