

# PRODUCT DATASHEET Substitube T8 EM Star PC 6.6 W/4000 K 600 mm

SubstiTUBE STAR PC | Economic LED tubes for electromagnetic control gears



### Areas of application

- Corridors, stairways, parking garages
- Cooling and storage rooms
- Warehouses
- Domestic applications
- General illumination within ambient temperatures from -20...+45 °C

#### **Product benefits**

- Extremely break resistant thanks to cover made of polycarbonate
- High color homogeneity
- Energy savings of up to 68 % compared to conventional T8 fluorescent lamps
- Instant flickerfree starting

### **Product features**

- LED replacement for conventional compact fluorescent lamps for use in CCG luminaires or on AC mains
- T8 LED tube made of plastic with G13 base
- Low flicker according to EU 2019-2020 (SVM  $\leq$  0,4 / PstLM  $\leq$  1)
- Mercury-free and RoHS compliant
- Single and tandem operation on conventional control gear (0.6 m version)
- Type of protection: IP20





## **TECHNICAL DATA**

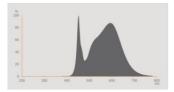
## Electrical data

Nominal wattage	6.6 W
Construction wattage	6.60 W
Nominal voltage	220240 V
Claimed equiv. conventional lamp power	18 W
Nominal current	35 mA
Type of current	AC
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp no. on circuit break. 10 A (B)	40
Max. lamp no. on circuit break. B10 A - CCG without compensation	60
Max. lamp no. on circuit break. B10 A - CCG with compensation	18
Max. lamp no. on circuit break. 16 A (B)	50
Max. lamp no. on circuit break. B16 A - CCG without compensation	75
Max. lamp no. on circuit break. B16 A - CCG with compensation	23
Power factor $\lambda$	> 0.90

## Photometrical data

Luminous flux	800 lm
Luminous efficacy	121 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	≥80
Light color	840
Standard deviation of color matching	≤6 sdcm
Rated LLMF at 6,000 h	0.80
Flickering metric (Pst LM)	1
Stroboscope effect metric (SVM)	0.4

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# Light technical data

Beam angle	190 °
Warm-up time (60 %)	< 0.50 s
Starting time	< 0.5 s
Rated beam angle (half peak value)	190.00°

# **Dimensions & Weight**

Overall length	603.00 mm
Diameter	26.70 mm
Tube diameter	26,7 mm
Maximum diameter	27 mm
Product weight	70.00 g

# Temperatures & operating conditions

Ambient temperature range	-20+45 °C
Maximum temperature at tc test point	65 °C

## Lifespan

Lifespan	30000 h
Number of switching cycles	200000
Lumen maintenance at end of serv	0.70
Rated lamp survival factor at 6,000	≥ 0.90

# Additional product data

Base (standard designation)	G13
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Mercury content	0.0 mg	
Capabilities Capabilities		
Dimmable	No	
Certificates & Standards		
Energy efficiency class	E	
Energy consumption	7.00 kWh/1000h	
Type of protection	IP20	
Standards	CE / EAC	
Photobiological safety group acc. to EN62778	RG0	
Country-specific categorizations		
Order reference	LEDTUBE T8 EM S	
LOGISTICAL DATA		
Temperature range at storage	-20+80 °C	
Energy labelling regulation data acc EU 2019/2015		
Lighting technology used	LED	
Non-directional or directional	NDLS	
Mains or non-mains	MLS	
Light source cap-type (or other electric interface)	G13	
Connected light source (CLS)	No	
Color-tuneable light source	No	
Envelope	No	
High luminance light source	No	
Anti-glare shield	No	
Correlated colour temperature type	SINGLE_VALUE	
Claim of equivalent power	No	
Length	603.00 mm	
Height	26.70 mm	
Width	26.70 mm	
Chromaticity coordinate x	0.382	
Chromaticity coordinate y	0.380	
R9 Colour rendering index	0.00	

SPHERE\_360

Beam angle correspondence

Survival factor	0.90
Displacement factor	0.90
LED light source replaces a fluorescent light source	yes
EPREL ID	563345
Model number	AC34976,AC34976

## **EQUIPMENT / ACCESSORIES**

- Suitable for operation on magnetic control gear

## Safety advice

- Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.
- The Tc Point is located underneath the product label on the front side of the lamp.

### **DOWNLOAD DATA**

	DOWNLOAD DATA
PDF	User instruction
PDF	Declarations of conformity
POF	Installation guide
POF	Installation guide

### **LOGISTICAL DATA**

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075593824	Sleeve 1	27 mm x 27 mm x 710 mm	115.00 g	0.52 dm <sup>3</sup>
4058075593831	Shipping box 8	755 mm x 184 mm x 130 mm	1717.00 g	18.06 dm³
4099854011429	Shipping box 8	755 mm x 143 mm x 100 mm	1275.00 g	10.80 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.





# Legal advice

- When used to replace a T8 fluorescent lamp the total energy efficiency and light distribution depends on the design of the lighting system.

### **DISCLAIMER**

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



