

## PRODUCT DATASHEET

# SubstiTUBE T8 UN Value 18 W/3000 K 1200 mm

SubstiTUBE T8 UNIVERSAL VALUE | LED tubes for electronic control gears (ECG), electromagnetic control gears (CCG) and mains



### Areas of application

- General illumination within ambient temperatures from -20...+45 °C
- Corridors, stairways, parking garages
- Warehouses

### Product benefits

- No bending thanks to glass technology
- Also suitable for operation at low temperatures
- Easy installation

### Product features

- T8 LED tube made of glass with G13 base
- Compatible with conventional and many common electronic control gears (see also compatibility list) and line voltage
- Low flicker according to EU 2019/2020
- Uniform illumination
- Lifetime: up to 30,000 h
- Mercury-free lamps



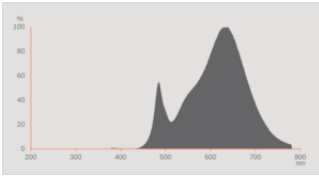
## TECHNICAL DATA

### Electrical data

Nominal wattage	18 W
Construction wattage	18.00 W
Nominal voltage	220...240 V
Claimed equiv. conventional lamp power	36 W
Nominal current	100 mA
Type of current	AC
Inrush current	15 A
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp no. on circuit break. 10 A (B)	80
Max. lamp no. on circuit break. B10 A - CCG without compensation [PIM]	80
Max. lamp no. on circuit break. B10 A - CCG with compensation [PIM]	25
Max. lamp no. on circuit break. 16 A (B)	125
Max. lamp no. on circuit break. B16 A -CCG without compensation [PIM]	125
Max. lamp no. on circuit break. B16 A -CCG with compensation [PIM]	40
Total harmonic distortion	< 20 %
Power factor $\lambda$	> 0,90

### Photometrical data

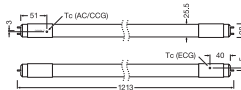
Luminous flux	1850 lm
Luminous efficacy	103 lm/W
Lumen main.fact.at end of nom.li	0.70
Light color (designation)	Warm White
Color temperature	3000 K
Color rendering index Ra	83
Light color	830
Standard deviation of color matching	$\leq 5$ sdc <sub>m</sub>
Valoare pãlpãire Pst LM	1.0
Valoare efect stroboscopic SVM	0.4



### Light technical data

Beam angle	190 °
Warm-up time (60 %)	< 2.00 s
Starting time	< 0.5 s
Rated beam angle (half peak valu	190.00 °

### Dimensions & Weight



Construction length [PICOS]	1212.50 mm
Diameter	27,80 mm
Tube diameter	25,5 mm
Maximum diameter	28 mm
Product weight	223,00 g

### Temperatures & operating conditions

Ambient temperature range	-20...+45 °C
Maximum temperature at tc test point	66 °C <sup>1)</sup>

<sup>1)</sup> at CCG+Mains operation, ECG operation: 69°C

### Lifespan

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

## Additional product data

Base (standard designation)	G13
Lamp mercury content	0.0 mg
Mercury-free	Yes

## Capabilities

Dimmable	No
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## Certificates &amp; Standards

Energy efficiency class	F 1)
Energy consumption	18.00 kWh/1000h
Type of protection	IP20
Standards	CE
Photobio. safety group a EN62778	RG0

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

## Country-specific categorizations

Order reference	LEDTUBE T8 UN V
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## LOGISTICAL DATA

Temperature range at storage	-20...+80 °C
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## Date privind reglementarea etichetării energetice (EU 2019/2015)







Tehnologia de iluminat utilizată	LED
Nedirecțională sau direcțională	NDLS
Cu alimentare de la rețea sau nealimentată de la rețea	MLS
Tipul de soclu al sursei de lumină (sau altă interfață electrică)	G13
Sursă de lumină conectată (SLC)	No
Sursă de lumină cu posibilitatea de reglare a culorilor	No
Anvelopă	No
Surse de lumină cu luminanță mare	No
Protecție antireflexie	No
Tip de temperatură de culoare corelată	SINGLE_VALUE
Declarație de putere echivalentă	No
Length	1212.50 mm
Height (incl. cylin. luminaires) [calc.]	27.80 mm
Width (incl. round luminaires) [Calc.]	27.80 mm

Coordonata X a diagramei cromatica a culorilor	0.433
Coordonata Y a diagramei cromatica a culorilor	0.403
Corespondență unghi fascicul	SPHERE_360
Factorul de supraviețuire	0.90
Factorul de defazaj	0.90
Sursa de lumină LED care înlocuiește o lumină fluorescentă	No
EPREL ID	519439
Model number	AC33876

### Safety advice

- 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 max temperature on the product prior to installation.
- For operation of LEDTUBE T8 UN with a conventional control gear, the existing starter must be exchanged with the including LED starter in the LED tube packaging.

### DOWNLOAD DATA

DOWNLOAD DATA	
	User instruction
	Declarations Of Conformity CE
	Installation guide
	Installation guide
	IES file (IES)
	LDT file (Eulumdat)

### LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075546899	Sleeves 1	1,305 mm x 29 mm x 29 mm	252.00 g	1.10 dm <sup>3</sup>
4058075546905	Shipping box 10	1,352 mm x 210 mm x 115 mm	3209.00 g	32.65 dm <sup>3</sup>

