

# PRODUCT DATASHEET

## SubstiTUBE T8 EM Pro 10.3 W/6500 K 900 mm

SubstiTUBE T8 EM PRO | High performance LED tubes for electromagnetic control gears (CCG), shatterproof



### Areas of application

- General illumination within ambient temperatures from -20...+50 °C
- Illumination of production areas
- Traffic zones and corridors
- Supermarkets and department stores
- Industry

### Product benefits

- No bending thanks to glass tube
- Shatter protection thanks to special PET coating
- Support the implementation of the HACCP concepts from production through to presentation
- Very high resistance to switching loads
- High luminous flux for sophisticated lighting tasks
- Quick, simple and safe replacement without rewiring
- Energy savings of up to 68 % (compared to T8 fluorescent lamp on CCG)
- Instant-on light, therefore ideally suitable in combination with sensor technology
- Also suitable for operation at low temperatures



## TECHNICAL DATA

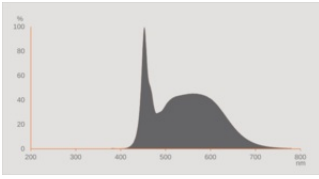
### Electrical data

Nominal wattage	10,3 W
Construction wattage	10.30 W
Nominal voltage	220...240 V
Claimed equiv. conventional lamp power	30 W
Nominal current	48 mA
Type of current	AC
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp no. on circuit break. 10 A (B)	94
Max. lamp no. on circuit break. B10 A - CCG without compensation [PIM]	94
Max. lamp no. on circuit break. B10 A - CCG with compensation [PIM]	14
Max. lamp no. on circuit break. 16 A (B)	150
Max. lamp no. on circuit break. B16 A -CCG without compensation [PIM]	150
Max. lamp no. on circuit break. B16 A -CCG with compensation [PIM]	23
Total harmonic distortion	17 %
Power factor $\lambda$	> 0,90

### Photometrical data

Luminous flux	1700 lm
Luminous efficacy	165 lm/W
Lumen main.fact.at end of nom.li	0.70
Light color (designation)	Cool Daylight
Color temperature	6500 K
Color rendering index Ra	83
Light color	865
Standard deviation of color matching	$\leq 5$ sdc <sub>m</sub>
Rated LLMF at 6,000 h	0.80
Valoare pãlpãire Pst LM	1
Valoare efect stroboscopic SVM	0.4





### Light technical data

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

### Dimensions & Weight

Construction length [PICOS]	908.00 mm
Diameter	26,70 mm
Tube diameter	25.3 mm
Maximum diameter	27 mm
Product weight	144,00 g

### Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Maximum temperature at tc test point	60 °C

### Lifespan

Nominal life time	75000 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
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Lamp mercury content	0.0 mg
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## Capabilities

Dimmable	No
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## Certificates & Standards

Energy efficiency class	C 1)
Energy consumption	11.00 kWh/1000h
Type of protection	IP20
Standards	CE / VDE / EAC
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 EM P
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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	908.00 mm
Height (incl. cylin. luminaires) [calc.]	26.70 mm
Width (incl. round luminaires) [Calc.]	26.70 mm
Coordonata X a diagramei cromatica a culorilor	0.312
Coordonata Y a diagramei cromatica a culorilor	0.328
Valoarea indicelui de redare a culorilor R9	0.00

Corespondență unghi fascicul	SPHERE_360
Factorul de supraviețuire	0.90
Factorul de defazaj	0.90
Sursa de lumină LED care înlocuiește o lumină fluorescentă	yes
EPREL ID	563397
Model number	AC34930,AC34930





### EQUIPMENT / ACCESSORIES

- Suitable for operation with low-loss and conventional control gears

### 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.

### DOWNLOAD DATA

DOWNLOAD DATA	
	User instruction
	Declarations of conformity
	Installation guide
	Installation guide

### LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075612211	Sleeves 1	1,000 mm x 29 mm x 29 mm	173.00 g	0.84 dm <sup>3</sup>
4099854009235	Shipping box 10	1,024 mm x 164 mm x 78 mm	2170.00 g	13.10 dm <sup>3</sup>
4058075612228	Shipping box 10	1,048 mm x 210 mm x 115 mm	2308.00 g	25.31 dm <sup>3</sup>

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.



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## References / Links

- For current information see [www.ledvance.com/substitute](http://www.ledvance.com/substitute)

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## 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.

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## DISCLAIMER

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