PRODUCT DATASHEET SubstiTUBE T9 C EM 22 12 W/6500 K G10q

LED TUBE T9 EM | Circular LED tube for electromagnetic control gear (CCG) and AC mains



Areas of application

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

Product benefits

- Quick, simple and safe replacement without rewiring
- Energy savings of up to 50% (compared to T9 fluorescent lamp)
- Also suitable for operation at low temperatures

Product features

- LED alternative to classic T9 fluorescent lamps in CCG luminaires
- Uniform illumination
- Lifetime: up to 30,000 h
- Mercury-free and RoHS compliant

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TECHNICAL DATA

Electrical data

Nominal wattage	12 W
Construction wattage	12.00 W
Nominal voltage	220240 V
Nominal current	60 mA
Type of current	AC
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp no. on circuit break. 10 A (B)	24
Max. lamp no. on circuit break. B10 A - CCG without compensation	94
Max. lamp no. on circuit break. B10 A - CCG with compensation	15
Max. lamp no. on circuit break. 16 A (B)	30
Max. lamp no. on circuit break. B16 A - CCG without compensation	150
Max. lamp no. on circuit break. B16 A - CCG with compensation	18
Total harmonic distortion	20 %
Power factor λ	> 0.90

Photometrical data

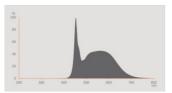
Luminous flux	1320 lm
Luminous efficacy	110 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool Daylight
Color temperature	6500 K
Color rendering index Ra	≥80
Light color	865
Standard deviation of color matching	≤6 sdcm
Rated LLMF at 6,000 h	0.80
Flickering metric (Pst LM)	1
Stroboscope effect metric (SVM)	0.40

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Light technical data

Beam angle	120 °
Warm-up time (60 %)	< 0.50 s
Starting time	< 0.5 s
Rated beam angle (half peak value)	120.00 °

Dimensions & Weight

Overall length	212.00 mm
Diameter	212.00 mm
Tube diameter	30,0 mm
Maximum diameter	212 mm
Product weight	145.00 g

Temperatures & operating conditions

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

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Design / version	Frosted
Capabilities	
Dimmable	No
Certificates & Standards	
Energy efficiency class	E 1)
Energy consumption	12.00 kWh/1000h
Type of protection	IP20
Standards	CE / EAC
Photobiological safety group acc. to EN62778	RG0

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

Country-specific categorizations

Temperature range at storage

Order reference	LEDTUBE T9C EM
LOGISTICAL DATA	

-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)	G10q
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
Standby power	0.00
Claim of equivalent power	No
Length	212.00 mm
Height	212.00 mm
Width	212.00 mm
Chromaticity coordinate x	0.312

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Chromaticity coordinate y	0.328
R9 Colour rendering index	0.00
Beam angle correspondence	SPHERE_360
Survival factor	0,90
Displacement factor	0,70
LED light source replaces a fluorescent light source	No
EPREL ID	716578
Model number	AC36308

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

	Documents and certificates
PDF	User instruction
PDF	Declarations Of Conformity CE
PDF	Declarations Of Conformity UKCA
	Photometric and lighting design files
	Spectral power distribution

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075604650	Folding box 1	38 mm x 220 mm x 260 mm	221.00 g	2.17 dm³
4058075604667	Shipping box 10	397 mm x 251 mm x 260 mm	2630.00 g	25.91 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.

References / Links

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Legal advice

- When used to replace a T9 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.

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