

# PRODUCT DATASHEET

## ST8S-EM 16.2 W/840 1200 mm EM

SubstiTUBE STAR | Economic LED tubes for electromagnetic control gears



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### AREAS OF APPLICATION

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

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### PRODUCT BENEFITS

- High color homogeneity
- Energy savings of up to 68 % compared to conventional 1,500 mm T8 fluorescent lamp
- Instant flickerfree starting

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### PRODUCT FEATURES

- T8 LED tube made of glass with G13 base
- Mercury-free and RoHS compliant
- Luminous efficacy: up to 105 lm/W
- Type of protection: IP20



**TECHNICAL DATA**

Electrical data

Nominal wattage	16.20 W
Rated wattage	16.20 W
Nominal voltage	220...240 V
Operating frequency	50...60 Hz
Nominal current	0.075 A
Type of current	AC
Power factor $\lambda$	> 0.90

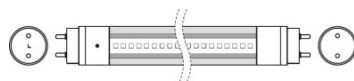
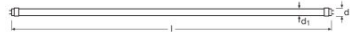
Photometrical data

Light color (designation)	Cool White
Rated color temperature	4000 K
Nominal luminous flux	1700 lm
Rated luminous flux	1700 lm
Color rendering index Ra	>80
Lumen main.fact.at end of nom.life time	0.70
Standard deviation of color matching	$\leq 6$ sdcn

Light technical data

Starting time	< 0.5 s
Warm-up time (60 %)	< 0.50 s
Rated beam angle (half peak value)	170.00 °

Dimensions & weight



Length with base excl. base pins/connection	1200.00 mm
Product weight	205.80 g
Overall length	1212 mm

## Temperatures &amp; operating conditions

Ambient temperature range	-20...+45 °C
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## Lifespan

Lifespan	30000 h
Nominal lamp life time	30000 h
Rated lamp life time	30000 h
Number of switching cycles	200000

## Additional product data

Base (standard designation)	G13
Mercury-free	Yes

## Capabilities

Dimmable	No
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## Certificates &amp; standards

Type of protection	IP20
Standards	CE
Energy efficiency class	A+
Energy consumption	17 kWh/1000h

## Country specific categorizations

ILCOS	DR-16.2/840-G13-25.5/1200
Order reference	ST8S-1.2M 16,2W

## Logistical data

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

## LOGISTICAL DATA

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
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4058075024519	ST8S-EM 16.2 W/840 1200 mm EM	Shipping carton box 8	1367 mm x 182 mm x 125 mm	31.10 dm <sup>3</sup>	2870.00 g
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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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#### 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.