

PRODUCT DATASHEET

ST8S-EM 16 W/6500 K 1200 mm

LED STAR+ MOTION SENSOR T8 | LED tube with integrated motion sensor



Areas of application

- Corridors, stairways, parking garages
- Warehouses

Product benefits

- Integrated motion sensor with motion dependend dimming function
- Short payback period thanks to low energy consumption and maintenance costs
- Energy savings of up to 70 % compared to conventional T8 fluorescent lamp
- No bending thanks to glass technology
- Two year guarantee
- Instant flickerfree starting

Product features

- LED alternative to classic T8 fluorescent lamps in CCG luminaires
- Luminous efficacy: up to 100 lm/W
- Two step dimming: 30 % and 100 % light output
- Lifetime up to 30,000 h



- High color consistency: ≤ 6 SDCM
- Color rendering index $R_a: \geq 80$
- Bright, robust and durable
- Uniform illumination

TECHNICAL DATA

Electrical data

Nominal wattage	16 W
Construction wattage	16.00 W
Nominal voltage	220...240 V
Nominal current	75 mA
Type of current	AC
Power factor λ	0.90

Photometrical data

Luminous flux	1800 lm
Luminous efficacy	112 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Daylight
Color temperature	6500 K
Color rendering index Ra	80
Light color	865
Standard deviation of color matching	≤6 sdcn

Light technical data

Beam angle	200 °
Warm-up time (60 %)	< 1.00 s
Starting time	< 1.0 s

Dimensions & Weight

Overall length	1212.00 mm
Diameter	28.00 mm
Product weight	220.00 g

Temperatures & operating conditions

Ambient temperature range	-10...+45 °C
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Lifespan

Number of switching cycles	50000
Lumen maintenance at end of service lifetime	0.70
Rated lamp survival factor at 6,000 h	0.90

Additional product data

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

Capabilities

Dimmable	Yes
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Certificates & Standards

Energy efficiency class	A+ ¹⁾
Energy consumption	17.60 kWh/1000h
Type of protection	IP20

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

Country-specific categorizations

Order reference	ST8S-1.2M 16W/8
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LOGISTICAL DATA

Temperature range at storage	-20...+80 °C
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Energy labelling regulation data acc EU 2019/2015

Light source cap-type (or other electric interface)	G13
Length	1212.00 mm
Height	28.00 mm
Width	28.00 mm

EQUIPMENT / ACCESSORIES

- Suitable for operation on conventional control gear

Safety advice

- Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.

DOWNLOAD DATA

Photometric and lighting design files		Document name
	IES file (IES)	ST8S Motion sensor tube 16W/865 1600lm
	LDT file (Eulumdat)	ST8S Motion sensor tube 16W/865 1600lm

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075055612	Sleeve 1	1,290 mm x 31 mm x 31 mm	0.29 g	1.24 dm ³
4058075055629	Shipping box 25	1,360 mm x 225 mm x 235 mm	8316.00 g	71.91 dm ³

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.