

PRODUCT DATASHEET

ST8MS-EM 20.6 W/4000K 1500 mm EM

SubstiTUBE MOTION SENSOR | High performance LED tubes with integrated microwave sensor for electromagnetic control gears, shatterproof



AREAS OF APPLICATION

- General illumination within ambient temperatures from -20...+50 °C
- Corridors, stairways, parking garages
- Warehouses
- Walkways and corridors
- Storage rooms
- Logistics areas, transport facilities and corridors
- Car parks

PRODUCT BENEFITS

- Energy savings of up to 90 % compared to conventional fluorescent lamp
- Quick, simple and safe replacement of fluorescent lamps without rewiring the CCG
- No bending thanks to glass technology
- 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
- LED replacement for conventional compact fluorescent lamps for use in CCG luminaires or on AC mains
- Suitable for closed luminaires thanks to microwave technology
- Also suitable for operation at low temperatures

PRODUCT FEATURES

- Integrated microwave sensor with motion detection
- Automatic dimming to 20 % light output after 5 minutes without motion detection
- Automatic light switch off 7 minutes after the last motion detection



- Microwave sensor with 5,8 GHz
- Motion detection up to 5 m
- Recommended maximum mounting height: 5 m
- Lamp tube made of glass with splinter protection e.g. for food industry applications
- Mercury-free and RoHS compliant
- VDE certified according to IEC62776
- Replacement for fluorescent lamps with G13 base

TECHNICAL DATA

Electrical data

Rated wattage	20.60 W
Nominal voltage	220...240 V
Operating frequency	50...60 Hz
Nominal wattage	20.60 W
Nominal current	0.095 A
Type of current	AC
Max. lamp no. on circuit break. 10 A (B)	47
Max. lamp no. on circuit break. B10 A - CCG without compensation	47
Max. lamp no. on circuit break. B10 A - CCG with compensation	8
Max. lamp no. on circuit break. B16 A - CCG without compensation	76
Max. lamp no. on circuit break. B16 A - CCG with compensation	14
Max. lamp no. on circuit break. 16 A (B)	76
Total harmonic distortion	< 20 %
Power factor λ	> 0.90

Photometrical data

Rated color temperature	4000 K
Nominal luminous flux	3100 lm
Rated luminous flux	3100 lm
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool White
Color temperature	4000 K
Luminous flux	3100 lm
Color rendering index Ra	83
Standard deviation of color matching	≤ 5 sdc

Light technical data

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

Dimensions & weight



Length with base excl. base pins/connection	1500.00 mm
Tube diameter	25.8 mm
Base diameter	26.7 mm
Product weight	275.00 g
Overall length	1513 mm

Temperatures & operating conditions

Ambient temperature range	-20...+50 °C
Maximum temperature at tc test point	70 °C

Lifespan

Lifespan	50000 h
Nominal lamp life time	50000 h
Rated lamp life time	50000 h
Number of switching cycles	200000

Additional product data

Base (standard designation)	G13
Mercury-free	Yes

Capabilities

Dimmable	No
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Certificates & standards

Type of protection	IP20
Standards	CE; VDE
Energy efficiency class	A++
Energy consumption	21 kWh/1000h

Country-specific categorizations

Order reference	ST8MS-1.5M 20,6
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Logistical data

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

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075292451	Sleeves 1	1612 mm x 36 mm x 29 mm	377.00 g	1.68 dm ³
4058075292468	Shipping carton box 8	1660 mm x 182 mm x 125 mm	4892.00 g	37.77 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.

REFERENCES / LINKS

For current information see

▶ www.ledvance.com/substitute

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.