PRODUCT DATASHEET
ST8AU-CON 16 W/6500 K 1200 mm

SubstiTUBE Connected | LED tubes for electromagnetic control gears



AREAS OF APPLICATION

- General illumination within ambient temperatures from −20…+50 °C
- Illumination of production areas
- Corridors, stairways, parking garages
- Supermarkets and department stores
- Warehouses

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
- Very high resistance to switching loads
- Also suitable for operation at low temperatures
- Extremely break resistant thanks to cover made of polycarbonate
- High luminous flux for sophisticated lighting tasks
- No laptop, tablet or smartphone needed to setup the system parameter
- Excellent performance: up to 3600 lm at 150 lm/W

PRODUCT FEATURES

- LED alternative to classic T8 fluorescent lamps in CCG luminaires
- Lifetime: up to 50,000 h
- Mercury-free and RoHS compliant
- Type of protection: IP20



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- 230 V line voltage operation
- Connected tube can be only operated with Connected sensor
- For especially uniform illumination

TECHNICAL DATA

Electrical data

Rated wattage	16.00 W
Nominal voltage	220…240 V
Operating frequency	50…60 Hz
Nominal wattage	16.00 W
Nominal current	0.075 A
Type of current	AC
Power factor λ	> 0.90

Photometrical data

Rated color temperature	6500 K
Nominal luminous flux	2400 lm
Rated luminous flux	2400 lm
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool Daylight
Color temperature	6500 K
Luminous flux	2400 lm
Color rendering index Ra	>80
Standard deviation of color matching	≤4 sdcm

Light technical data

Starting time	< 0.5 s
Warm-up time (60 %)	< 0.50 s
Rated beam angle (half peak value)	180.00 °

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Dimensions & weight



Length with base excl. base pins/connection	1198.00 mm
Tube diameter	27.3 mm
Base diameter	27.3 mm
Product weight	170.00 g
Overall length	1213 mm

Temperatures & operating conditions

Ambient temperature range	-20…+50 °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
Product remark	When used to replace a T8 fluorescent lamp the total energy efficiency and light distribution depends on the design of the lighting system/Not usable in luminaires with serial lamp connection, i.e. more than one tube at one magnetic ballast (tandem circuitry)

Capabilities

Dimmable	Yes

Certificates & standards

Type of protection	IP20
Standards	CE; VDE
Energy efficiency class	A++

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Energy efficiency class	A++
Energy consumption	16 kWh/1000h

Country-specific categorizations

ILCOS	DR-16/865-G13-27.5/1200
Order reference	ST8AU-1.2M 16W/

Logistical data

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

SAFETY ADVICE

Not suitable for operation with electronic control gear.

LOGISTICAL DATA

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899970564	ST8AU-CON 16 W/6500 K 1200 mm	Shipping carton box 25	1335 mm x 166 mm x 182 mm	40.33 dm^3	6680.00 g

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.

DISCLAIMER

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

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