

## PRODUCT DATASHEET

### ST8PROU-UN 7.5 W/4000 K 600 mm

SubstiTUBE T8 UNIVERSAL PRO ULTRA OUTPUT | LED tubes for electronic control gears (ECG), electromagnetic control gears (CCG) and mains, shatterproof



#### Areas of application

- General illumination within ambient temperatures from -20...+45 °C
- Supermarkets and department stores
- Industry

#### Product benefits

- No bending thanks to glass technology
- Shatter protection thanks to special PET coating
- Also suitable for operation at low temperatures
- High luminous flux for sophisticated lighting tasks
- Easy installation

#### Product features

- T8 LED tube made of glass with G13 base
- Compatible with conventional and many common electronic control gears (see also compatibility list) and line voltage
- Low flicker according to EU 2019/2020
- Lamp tube made of glass with splinter protection e.g. for food industry applications
- Mercury-free and RoHS compliant
- Type of protection: IP20
- Lifetime up to 60,000 h



## TECHNICAL DATA

### Electrical data

|                                                       |                   |
|-------------------------------------------------------|-------------------|
| Nominal wattage                                       | 7.5 W             |
| Construction wattage                                  | 7.50 W            |
| Nominal voltage                                       | 220...240 V       |
| Operating mode                                        | ECG / CCG / Mains |
| Nominal current                                       | 45 mA             |
| Type of current                                       | AC                |
| Inrush current                                        | 10 A              |
| Operating frequency                                   | 50...60 Hz        |
| Mains frequency                                       | 50...60 Hz        |
| Max. lamp number on MCB B10 A                         | 125               |
| Max. lamp number on MCB B10 A - CCG with compensation | 165               |
| Max. lamp number on MCB B16 A                         | 200               |
| Max. lamp number on MCB B16 A - CCG with compensation | 265               |
| Total harmonic distortion                             | < 20 %            |
| Power factor $\lambda$                                | > 0.80            |

### Photometrical data

|                                         |               |
|-----------------------------------------|---------------|
| Luminous flux                           | 1100 lm       |
| Luminous efficacy                       | 146 lm/W      |
| Lumen main.fact.at end of nom.life time | 0.70          |
| Light color (designation)               | Cool White    |
| Color temperature                       | 4000 K        |
| Color rendering index Ra                | 83            |
| Light color                             | 840           |
| Standard deviation of color matching    | $\leq 5$ sdcn |

### Light technical data

|                     |          |
|---------------------|----------|
| Beam angle          | 190 °    |
| Warm-up time (60 %) | < 2.00 s |
| Starting time       | < 0.5 s  |

### Dimensions & Weight



|                  |           |
|------------------|-----------|
| Overall length   | 603.00 mm |
| Diameter         | 27.80 mm  |
| Tube diameter    | 25,5 mm   |
| Maximum diameter | 28 mm     |
| Product weight   | 131.00 g  |

### Temperatures & operating conditions

|                                      |              |
|--------------------------------------|--------------|
| Ambient temperature range            | -20...+45 °C |
| Maximum temperature at tc test point | 59 °C        |

### Lifespan

|                                              |        |
|----------------------------------------------|--------|
| Number of switching cycles                   | 200000 |
| 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 |

### Capabilities

|          |    |
|----------|----|
| Dimmable | No |
|----------|----|

### Certificates & Standards

|                                              |                |
|----------------------------------------------|----------------|
| Energy efficiency class                      | D              |
| Energy consumption                           | 8.00 kWh/1000h |
| Type of protection                           | IP20           |
| Standards                                    | CE             |
| Photobiological safety group acc. to EN62778 | RG0            |

### Country-specific categorizations

|                 |                 |
|-----------------|-----------------|
| Order reference | RL-T8 18 HO 7,5 |
|-----------------|-----------------|

### LOGISTICAL DATA

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

### Energy labelling regulation data acc EU 2019/2015

|                                                     |              |
|-----------------------------------------------------|--------------|
| Light source cap-type (or other electric interface) | G13          |
| Correlated colour temperature type                  | SINGLE_VALUE |
| Length                                              | 603.00 mm    |
| Height                                              | 27.80 mm     |
| Width                                               | 27.80 mm     |
| EPREL ID                                            | 519433       |

### Safety advice

- Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.
- The operating temperature range of LED tube is restricted. In case of doubt regarding suitability of the application please measure Tc temperature on the product prior to installation.
- For operation of LED TUBE T8 UN with a conventional control gear, the existing starter must be exchanged with the including LED starter in the LED tube packaging.
- All electrical connections must be made by a qualified person.
- Not suitable for emergency lighting.

### LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4008597201288 | Sleeve<br>1                  | 695 mm x 29 mm x 29 mm               | 149.00 g     | 0.58 dm <sup>3</sup>  |
| 4008597601286 | Shipping box<br>10           | 742 mm x 210 mm x 115 mm             | 1919.00 g    | 17.92 dm <sup>3</sup> |

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.