

# PRODUCT DATASHEET

## Spot Twist 93mm 10W 3000K White Black

LED SPOT RECESS TWIST PRO | Recessed spotlight with LED integrated



### Areas of application

- Indoor applications
- General illumination

### Product benefits

- Energy savings of up to 90 % compared to halogen lamp spotlights
- Easy installation and electrical connection thanks to tool-free electrical connectors

### Product features

- Silicon-pad protected springs



## TECHNICAL DATA

### Electrical data

|                                                             |               |
|-------------------------------------------------------------|---------------|
| Nominal wattage                                             | 10.00 W       |
| Nominal voltage                                             | 220...240 V   |
| Mains frequency                                             | 50...60 Hz    |
| Nominal current                                             | 100.000 mA    |
| Inrush current                                              | < 25 A        |
| Inrush current time T <sub>h50</sub>                        | 10 µs         |
| Max. number of luminaires per miniature circuit breaker B16 | 120           |
| Max. number of luminaires per miniature circuit breaker C10 | 70            |
| Max. number of luminaires per miniature circuit breaker C16 | 120           |
| Power factor $\lambda$                                      | ≥0.5          |
| Protection class                                            | II            |
| Operating mode                                              | Mains voltage |

### Photometrical data

|                                              |                     |
|----------------------------------------------|---------------------|
| Luminous flux                                | 700 lm              |
| Luminous efficacy                            | 70 lm/W             |
| Color temperature                            | 3000 K              |
| Light color (designation)                    | Warm White          |
| Color rendering index Ra                     | ≥80                 |
| Standard deviation of color matching         | ≤6 sdc <sub>m</sub> |
| Luminous intensity                           | 2200                |
| Flickering metric (Pst LM)                   | <1                  |
| Stroboscope effect metric (SVM)              | <0,4                |
| Photobiological safety group acc. to EN62778 | RG1                 |
| Photobiological safety group acc. to EN62471 | RG1                 |
| Beam angle                                   | 30 °                |

### Dimensions & Weight

|                |          |
|----------------|----------|
| Diameter       | 93.00 mm |
| Height         | 94.00 mm |
| Product weight | 210.00 g |

SPOT TWIST 93MM

Materials & Colors

|                                            |                             |
|--------------------------------------------|-----------------------------|
| Product color                              | White Black                 |
| Housing color                              | White Black                 |
| Body material                              | Aluminum Polycarbonate (PC) |
| Glow Wire Test according to IEC 60695-2-12 | 650 °C                      |
| Mercury content                            | 0.0 mg                      |

Application & Mounting

|                                        |                              |
|----------------------------------------|------------------------------|
| Ambient temperature range              | -10...+45 °C                 |
| Temperature range at storage           | -20...+80 °C                 |
| Type of connection                     | Screw terminal, 2-Pole (L,N) |
| Type of protection                     | IP20/IP20                    |
| Protection class IK (shock resistance) | IK02                         |
| Dimmable                               | No                           |
| Mounting type                          | Recessed                     |
| Mounting diameter                      | 85 mm                        |
| Mounting depth                         | 100 mm                       |
| With light source                      | Yes                          |
| Replaceable light source               | No                           |

Lifespan

|                            |                       |
|----------------------------|-----------------------|
| Lifespan L70/B50 at 25 °C  | 30000 h <sup>1)</sup> |
| Number of switching cycles | 15000                 |

1) t[h]: L70 / B50 @ 25 °C (Ta), t[h]: L80 / B10 @ 25 °C (Ta), t[h]: L90 / B10 @ 25 °C (Ta)

Control gear

|                |        |
|----------------|--------|
| Output current | 230 mA |
| ECG - Length   | 82 mm  |
| ECG - Width    | 35 mm  |
| ECG - Height   | 25 mm  |

Certificates & Standards

|                                                      |                 |
|------------------------------------------------------|-----------------|
| Standards                                            | CE / UKCA       |
| Luminaire with limited surface temperature, "D sign" | No              |
| Replaceable light source (EPREL)                     | Not replaceable |

#### Additional product data

|                       |       |
|-----------------------|-------|
| Number of illuminants | empty |
|-----------------------|-------|

#### EQUIPMENT / ACCESSORIES

- Connector box not included

#### Safety advice

- All electrical connections must be made by a qualified person.
- Caution, risk of electric shock.
- The luminaires are not suitable for covering with thermally insulated material.
- Check wall-ceiling for suitability. If uncertain, seek professional advice.

#### DOWNLOAD DATA

| Documents and certificates                                                         |                                        | Document name                 |
|------------------------------------------------------------------------------------|----------------------------------------|-------------------------------|
|  | User instruction / safety instructions | UI Spot Twist                 |
|  | Declarations of conformity             | CE Declaration Spot Twist     |
|  | Declarations of conformity UKCA        | UKCA Declaration Spot Twist   |
| Photometric and lighting design files                                              |                                        | Document name                 |
|  | IES file (IES)                         | SPOT TWIST 93MM 10W 830 WT BK |
|  | LDT file (Eulumdat)                    | SPOT TWIST 93MM 10W 830 WT BK |

#### LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume               |
|---------------|------------------------------|--------------------------------------|--------------|----------------------|
| 4099854089169 | Folding box<br>1             | 109 mm x 124 mm x 114 mm             | 261.00 g     | 1.54 dm <sup>3</sup> |

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume    |
|---------------|------------------------------|--------------------------------------|--------------|-----------|
| 4099854089176 | Shipping box<br>20           | 580 mm x 270 mm x 245 mm             | 5780.00 g    | 38.37 dm³ |

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.