

## PRODUCT DATASHEET

### Element LD 30/220...240/700

ELEMENT LD | Constant Current - Indoor - on/off



#### Areas of application

- Spotlight and downlight installations for shops
- Recessed luminaires
- Suitable for luminaires of protection classes I and II
- Suitable for indoor SELV installations

#### Product benefits

- Compatible with LEDs with Chip-On-Board technology and discrete LEDs
- High efficiency
- Simple installation and wiring

#### Product features

- Available with wattages up to 60 W
- Constant output current
- Integrated cable clamp for luminaire and independent installation
- Operated with Safety extra-low voltage (SELV): < 60 V
- Reversible overtemperature, overload, short-circuit and open-circuit protection

## TECHNICAL DATA

### Electrical data

|                                          |                           |
|------------------------------------------|---------------------------|
| Nominal wattage                          | 8.00 W                    |
| Nominal output power                     | 30 W                      |
| Nominal voltage                          | 220...240 V               |
| Nominal output voltage                   | 21...42 V <sup>1)</sup>   |
| Input voltage AC                         | 220...240 V <sup>2)</sup> |
| U-OUT (working voltage)                  | 60 V                      |
| Nominal output current                   | 700 mA                    |
| Inrush current                           | 16 A                      |
| Output current tolerance                 | ±10 %                     |
| Output ripple current (100 Hz)           | 40 % <sup>3)</sup>        |
| Mains frequency                          | 50/60 Hz                  |
| Total harmonic distortion                | < 20 %                    |
| Power factor $\lambda$                   | 0.98 <sup>4)</sup>        |
| ECG efficiency                           | > 90 % <sup>5)</sup>      |
| Device power loss                        | 4.4 W <sup>6)</sup>       |
| Max. ECG no. on circuit breaker 10 A (B) | 25                        |
| Max. ECG no. on circuit breaker 16 A (B) | 40                        |
| Max. ECG no. on circuit breaker 25 A (B) | -                         |
| Surge capability (L/N-Ground)            | 1 kV                      |
| Surge capability (L-N)                   | 1 kV                      |
| Galvanic isolation                       | SELV                      |

1) DC voltage

2)  $V_{AC}$

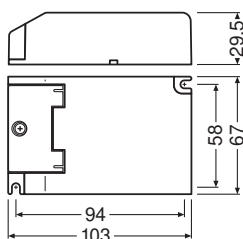
3) Ripple average at 100 Hz %

4) Full load at 230 V/50 Hz

5) At full load and 230 V / Typical / At 50 Hz

6) At 230 V / Input power 34.5 W max.

### Dimensions & Weight



|                                      |                           |
|--------------------------------------|---------------------------|
| Length                               | 103.00 mm                 |
| Mounting hole spacing, length        | 94,0 mm                   |
| Width                                | 67.00 mm                  |
| Height                               | 29.50 mm                  |
| Cable cross-section, input side      | 0.5...1.5 mm <sup>2</sup> |
| Cable cross-section, output side     | 0.5...1.5 mm <sup>2</sup> |
| Wire preparation length, input side  | 8.0...9.0 mm              |
| Wire preparation length, output side | 8.0...9.0 mm              |
| Product weight                       | 150.00 g                  |

### Colors & materials

|                 |         |
|-----------------|---------|
| Casing material | Plastic |
| Body material   | Plastic |

### Temperatures & operating conditions

|                                          |                        |
|------------------------------------------|------------------------|
| Ambient temperature range                | -10...+50 °C           |
| Maximum temperature at tc test point     | 75 °C                  |
| Max.housing temperature in case of fault | 110 °C                 |
| Permitted rel. humidity during operation | 5...85 % <sup>1)</sup> |

<sup>1)</sup> Maximum 56 days/year at 85 %

### Lifespan

|              |                       |
|--------------|-----------------------|
| ECG lifetime | 30000 h <sup>1)</sup> |
|--------------|-----------------------|

<sup>1)</sup> At T<sub>case</sub> = 75°C at T<sub>c</sub> point / 10% failure rate

### Additional product data

|              |    |
|--------------|----|
| Encapsulated | No |
|--------------|----|

### Capabilities

|                                        |                                                        |
|----------------------------------------|--------------------------------------------------------|
| Dimmable                               | No                                                     |
| Overheating protection                 | Automatic switch off, reversible by manual mains reset |
| Overload protection                    | Automatic reversible                                   |
| No-load proof                          | Yes                                                    |
| Short-circuit protection               | Automatic reversible                                   |
| Max. cable length to lamp/LED module   | 2,0 m                                                  |
| Suitable for fixtures with prot. class | I / II                                                 |
| Type of connection, output side        | Push terminal                                          |

### Certificates & Standards

|                           |                                                                                                                                                               |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval marks – approval | CCC / CE / ENEC 10 / RCM                                                                                                                                      |
| Standards                 | Acc. to IEC 61347-1 / Acc. to IEC 61347-2-13 / Acc. to IEC 62384 /<br>Acc. to IEC 61000-3-2 / Acc. to CISPR 15 / Acc. to IEC 61000-3-3 /<br>Acc. to IEC 61547 |
| Protection class          | II                                                                                                                                                            |
| Type of protection        | IP20                                                                                                                                                          |

## LOGISTICAL DATA

|                              |             |
|------------------------------|-------------|
| Temperature range at storage | -10...75 °C |
|------------------------------|-------------|

## DOWNLOAD DATA

| Documents and certificates                                                         |                            | Document name                        |
|------------------------------------------------------------------------------------|----------------------------|--------------------------------------|
|    | Declarations of conformity | 612430_ELEMENT CE declaration        |
|    | Declarations of conformity | Declaration of Conformity ELEMENT LD |
|    | Certificates               | 730563_VDE Certificate               |
|  | Certificates               | VDE ENEC Certificate 40038447        |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume               |
|---------------|------------------------------|--------------------------------------|--------------|----------------------|
| 4052899947108 | Unpacked<br>1                |                                      | 150.00 g     |                      |
| 4052899947177 | Shipping box<br>20           | 346 mm x 216 mm x 80 mm              | 3315.00 g    | 5.98 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.