

# PRODUCT DATASHEET

## DR EXTERNAL DALI -1X15-37W 220-240

LED DRIVER LED TUBE EXTERNAL DALI | Constant current LED DRIVER EXTERNAL for LED TUBE EXTERNAL T5/T8



### Areas of application

- Suitable for luminaires of protection class I
- General illumination within ambient temperatures from -20...+50 °C
- Linear lighting for office, education, storage areas and retail
- Industrial lighting (e.g. manufacturing plants, logistic centers, warehouses)
- Shops, supermarkets

### Product benefits

- Multiwatt LED driver for LED TUBE EXTERNAL T5 and T8
- DALI 2.0 interface for dimming and sensor operations
- Push DIM application for easy control
- 5 years guarantee

### Product features

- Flexibility due to adjustable output currents via dip switch
- Quality dimming of 1...100 %
- Safety extra-low voltage (SELV) driver
- Lifetime 100,000 h (for T<sub>c</sub> = 65 °C)
- ENEC-certified safety
- High resistance to switching loads



## TECHNICAL DATA

### Electrical data

|                                          |                             |
|------------------------------------------|-----------------------------|
| Nominal wattage                          | 38.70 W                     |
| Nominal output power                     | 37 W <sup>1)</sup>          |
| Nominal voltage                          | 220...240 V                 |
| Nominal output voltage                   | 25...48 V <sup>2)</sup>     |
| Input voltage range                      | 220...240 V                 |
| Input voltage AC                         | 198...264 V <sup>3)</sup>   |
| Input voltage DC                         | 220...240 V                 |
| U-OUT (working voltage)                  | 60 V                        |
| Type of current                          | DC                          |
| Nominal current                          | 0.21 A                      |
| Nominal output current                   | 0.35...0.86 A <sup>4)</sup> |
| Inrush current                           | 60 A <sup>5)</sup>          |
| Output current tolerance                 | 10 %                        |
| Output ripple current (100 Hz)           | ≤ 5 %                       |
| Mains frequency                          | 0/50/60 Hz                  |
| Total harmonic distortion                | < 20 % <sup>6)</sup>        |
| Power factor $\lambda$                   | 0.95 <sup>7)</sup>          |
| ECG efficiency                           | 86 % <sup>8)</sup>          |
| Device power loss                        | 6 W <sup>9)</sup>           |
| Max. ECG no. on circuit breaker 10 A (B) | 14                          |
| Max. ECG no. on circuit breaker 16 A (B) | 23                          |
| Max. ECG no. on circuit breaker 25 A (B) | 36                          |
| Surge capability (L/N-Ground)            | 2 kV                        |
| Surge capability (L-N)                   | 1 kV                        |
| Galvanic isolation                       | SELV                        |
| Operating frequency                      | 0/50/60 Hz                  |
| Power loss in stand-by mode              | < 0.5 W                     |

1) Partial load 8.75...38.7 W

2) Within rated power

3) Permitted voltage range

4) ±5%

5)  $t_{\text{width}} = 200 \mu\text{s}$  (measured at 50 %  $I_{\text{peak}}$ )

- 6) At full load, 220...240 V, 50 Hz
- 7) Full load at 230 V
- 8) At full load and 230 V
- 9) At maximum LED load of 40 W

Dimensions & Weight



|                                      |                            |
|--------------------------------------|----------------------------|
| Length                               | 286.00 mm                  |
| Mounting hole spacing, length        | 274 mm                     |
| Width                                | 31.00 mm                   |
| Height                               | 21.00 mm                   |
| Cable cross-section, input side      | 0.5...1.5 mm <sup>2</sup>  |
| Cable cross-section, output side     | 0.5...0.75 mm <sup>2</sup> |
| Prewired                             | No                         |
| Wire preparation length, input side  | 8...9 mm                   |
| Wire preparation length, output side | 8...9 mm                   |
| Product weight                       | 225.00 g                   |

Colors & materials

|                 |              |
|-----------------|--------------|
| Product color   | White        |
| Casing material | Metal / CGCC |
| Body material   | Metal        |

Temperatures & operating conditions

|                                          |                            |
|------------------------------------------|----------------------------|
| Ambient temperature range                | -20...+50 °C <sup>1)</sup> |
| Maximum temperature at tc test point     | 80 °C                      |
| Max.housing temperature in case of fault | 110 °C                     |
| Temperature range in operation           | -20...+50 °C               |
| Permitted rel. humidity during operation | 10...85 % <sup>2)</sup>    |

1) Temperature surrounding the lamp - for enclosed luminaires: temperature inside of the luminaire  
2) Maximum 42 days/year at 93 %

Lifespan

|              |                        |
|--------------|------------------------|
| ECG lifetime | 100000 h <sup>1)</sup> |
|--------------|------------------------|

<sup>1)</sup> At T<sub>C</sub> = 65 °C / 10 % failure rate

### Additional product data

|              |     |
|--------------|-----|
| Encapsulated | Yes |
|--------------|-----|

### Capabilities

|                                        |                   |
|----------------------------------------|-------------------|
| Dimmable                               | Yes               |
| Dimming interface                      | DALI-2 / Push-DIM |
| Dimming range                          | 1...100 %         |
| Overheating protection                 | Yes               |
| Overload protection                    | Yes               |
| Short-circuit protection               | Yes               |
| Max. cable length to lamp/LED module   | 2,0 m             |
| Suitable for fixtures with prot. class | I / II            |
| Suitable for emergency lighting        | Yes               |
| Type of connection, output side        | Push terminal     |

### Certificates & Standards

|                           |                                                                                                                                 |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Approval marks – approval | CE / CB / ENEC / UKCA / EL                                                                                                      |
| Standards                 | Acc. to EN 61347-1 / Acc. to ENEC 61347-2-13 / Acc. to EN 62384 /<br>Acc. to EN 55015 / Acc. to EN 61000-3-2 / Acc. to EN 61547 |
| Protection class          | I                                                                                                                               |
| Type of protection        | IP20                                                                                                                            |

### LOGISTICAL DATA

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

### Safety advice

- Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.
- All electrical connections must be made by a qualified person.
- Caution, risk of electric shock.
- Disconnect mains before installation.
- Do not open enclosure-housing.

### DOWNLOAD DATA

| Documents and certificates                                                       |                                        | Document name                                           |
|----------------------------------------------------------------------------------|----------------------------------------|---------------------------------------------------------|
|  | User instruction / safety instructions | LED DRIVER EXT DALI                                     |
|  | Legal information                      | Informationstext 18 Abs 4 ElektroG                      |
|  | Declarations of conformity             | LED DRIVER LED TUBE EXTERNAL DALI P                     |
|  | Declarations of conformity UKCA        | LED DRIVER LED TUBE EXTERNAL DALI P                     |
|  | EU Data Act                            | DALI LED Driver and Luminaires                          |
| Tender texts                                                                     |                                        | Document name                                           |
|  | Tender documents                       | LED DRIVER LED TUBE EXTERNAL DALI P 1X15 37W 220 240-EN |

## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075730632 | Folding box<br>1             | 294 mm x 39 mm x 29 mm               | 248.00 g     | 0.33 dm <sup>3</sup>  |
| 4058075730649 | Shipping box<br>25           | 319 mm x 217 mm x 170 mm             | 7010.00 g    | 11.77 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.

## References / Links

– For current information see [www.ledvance.com/ledtube](http://www.ledvance.com/ledtube)

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