

**Driver LC 75W 900–1800mA flexC Ip EXC**

excite series SELV

**Product description**

- \_ Constant current LED Driver for luminaire installation
- \_ Dimmable via ready2mains Gateway
- \_ Dimming range 10 – 100 % (Depending on load, for details refer to chapter 4.7 Dimming in data sheet.)
- \_ Adjustable output current between 900 and 1,800 mA via ready2mains Programmer or I-select 2 plugs
- \_ Max. output power 75 W
- \_ Up to 91 % efficiency
- \_ For luminaires of protection class I and protection class II
- \_ Nominal life-time up to 100,000 h
- \_ 5-year guarantee

**Housing properties**

- \_ Low profile metal casing with white cover
- \_ Type of protection IP20

**Interfaces**

- \_ ready2mains (configuration and dimming via mains)
- \_ Terminal blocks: 0° push terminals

**Functions**

- \_ Adjustable output current in 1-mA-steps (ready2mains, I-select 2)
- \_ Dimmable via ready2mains interface
- \_ Protective features (overtemperature, short-circuit, overload, no-load, input voltage range)
- \_ Suitable for emergency escape lighting systems acc. to EN 50172

**Benefits**

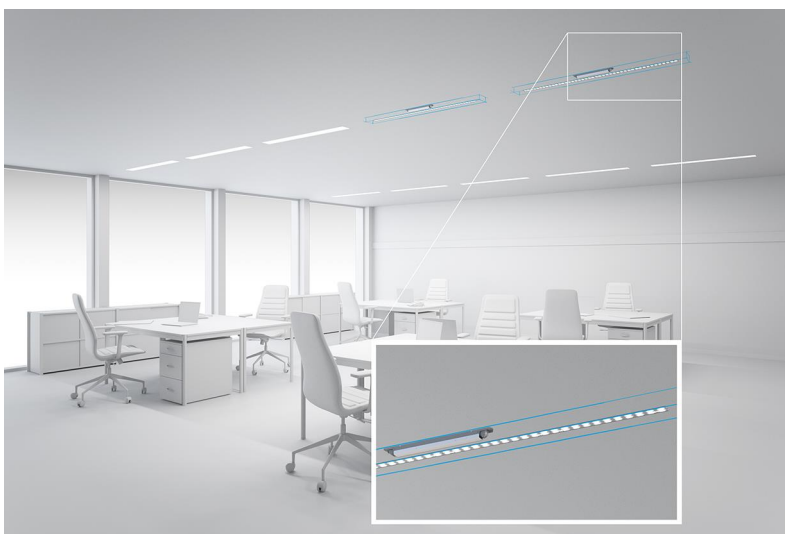
- \_ Application-oriented operating window for maximum compatibility
- \_ Best energy savings due to high efficiency and dimming via ready2mains
- \_ Flexible configuration via ready2mains and I-select 2
- \_ Reliability proven by life-time up to 100,000 h and 5-year guarantee

**Typical applications**

- \_ For linear/area lighting in office applications

**Website**

<http://www.tridonic.com/28000684>



Spotlights



Downlights



Linear



Area



Floor | Wall



Free-standing



Street



Decorative

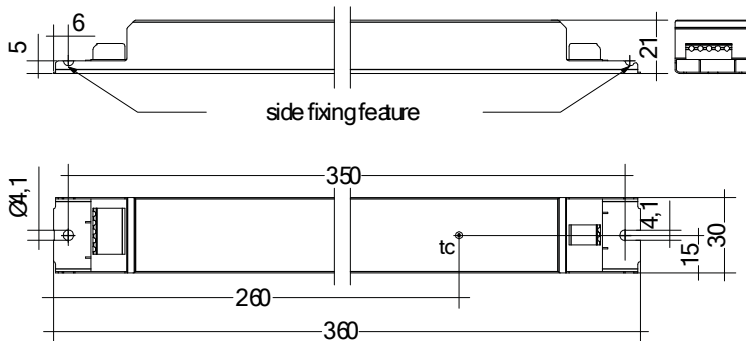


High bay

**Driver LC 75W 900–1800mA flexC Ip EXC**

excite series SELV

The complete data sheet for this product is available in the Downloads section.

**Ordering data**

| Type                           | Article number | Packaging, carton | Packaging, pallet | Weight per pc. |
|--------------------------------|----------------|-------------------|-------------------|----------------|
| LC 75W 900-1800mA flexC Ip EXC | 28000684       | 10 pc(s).         | 760 pc(s).        | 0.238 kg       |

**Technical data**

|  |                         |
|--|-------------------------|
| Rated supply voltage   | 220 – 240 V             |
| AC voltage range   | 198 – 264 V             |
| DC voltage range   | 176 – 280 V             |
| Mains frequency  | 0 / 50 / 60 Hz          |
| Overvoltage protection   | 320 V AC, 48 h          |
| Typ. rated current (at 230 V, 50 Hz, full load) <sup>①②</sup>            | 370 mA                  |
| Typ. current (220 V, 0 Hz, full load, 100 % dimming level) <sup>②③</sup> | 360 mA                  |
| Leakage current (at 230 V, 50 Hz, full load) <sup>①②</sup>               | < 250 µA                |
| Max. input power   | 84.5 W                  |
| Typ. efficiency (at 230 V, 50 Hz, full load) <sup>②</sup>                | 91 %                    |
| λ (at 230 V, 50 Hz, full load) <sup>①</sup>                              | 0.98C                   |
| Typ. input current in no-load operation                                  | 20 mA                   |
| Typ. input power in no-load operation                                    | 0.1 W                   |
| In-rush current (peak / duration)  | 35 A / 240 µs           |
| THD (at 230 V, 50 Hz, full load) <sup>①</sup>                            | < 10 %                  |
| Starting time (at 230 V, 50 Hz, full load) <sup>①</sup>                  | < 500 ms                |
| Starting time (DC mode)  | < 500 ms                |
| Switchover time (AC/DC)  | < 0.2 s                 |
| Turn off time (at 230 V, 50 Hz, full load)                               | < 50 ms                 |
| Output current tolerance <sup>①③</sup>                                   | ± 5 %                   |
| Max. output current peak (non-repetitive)                                | ≤ output current + 35 % |
| Output LF current ripple (< 120 Hz)                                      | ± 5 %                   |
| Max. output voltage (U-OUT)  | 52 V                    |
| Dimming range <sup>④</sup>   | 10 – 100 %              |
| Mains surge capability (between L - N)                                   | 1 kV                    |
| Mains surge capability (between L/N - PE)                                | 2 kV                    |
| Burst / surge peaks output side against PE                               | < 500 V                 |
| Type of protection   | IP20                    |
| Dimensions L x W x H   | 360 x 30 x 21 mm        |

**Approval marks**

## Standards

EN 55015, EN 61000-3-2, EN 61000-3-3, EN 61347-1, EN 61347-2-13, EN 62384, EN 61547, Acc. to EN 50172, Acc. to EN 60598-2-22

## Specific technical data

| Type                           | Output current <sup>②</sup> | Min. forward voltage | Max. forward voltage | Max. output power | Typ. power consumption (at 230 V, 50 Hz, full load) | Typ. current consumption (at 230 V, 50 Hz, full load) | tc point max. | Ambient temperature ta | I-select 2 resistor value <sup>⑦</sup> |
|--------------------------------|-----------------------------|----------------------|----------------------|-------------------|---|---|---------------|------------------------|--|
| LC 75W 900-1800mA flexC Ip EXC | 900 mA                      | 20 V                 | 50 V                 | 45.0 W            | 50.6 W  | 228 mA  | 80 °C         | -25 ... +55 °C         | -                                      |
| LC 75W 900-1800mA flexC Ip EXC | 950 mA                      | 20 V                 | 50 V                 | 47.5 W            | 53.3 W  | 241 mA  | 80 °C         | -25 ... +55 °C         | 5.26 kΩ                                |
| LC 75W 900-1800mA flexC Ip EXC | 1,000 mA                    | 20 V                 | 50 V                 | 50.0 W            | 56.6 W  | 254 mA  | 80 °C         | -25 ... +50 °C         | 5.00 kΩ                                |
| LC 75W 900-1800mA flexC Ip EXC | 1,050 mA                    | 20 V                 | 50 V                 | 52.5 W            | 59.3 W  | 266 mA  | 80 °C         | -25 ... +50 °C         | 4.76 kΩ                                |
| LC 75W 900-1800mA flexC Ip EXC | 1,100 mA                    | 20 V                 | 50 V                 | 55.0 W            | 62.0 W  | 277 mA  | 80 °C         | -25 ... +50 °C         | 4.55 kΩ                                |
| LC 75W 900-1800mA flexC Ip EXC | 1,150 mA                    | 20 V                 | 50 V                 | 57.5 W            | 64.4 W  | 287 mA  | 80 °C         | -25 ... +50 °C         | 4.35 kΩ                                |
| LC 75W 900-1800mA flexC Ip EXC | 1,200 mA                    | 20 V                 | 50 V                 | 60.0 W            | 66.0 W  | 294 mA  | 80 °C         | -25 ... +50 °C         | 4.17 kΩ                                |
| LC 75W 900-1800mA flexC Ip EXC | 1,250 mA                    | 20 V                 | 50 V                 | 62.5 W            | 70.3 W  | 313 mA  | 80 °C         | -25 ... +50 °C         | 4.00 kΩ                                |
| LC 75W 900-1800mA flexC Ip EXC | 1,300 mA                    | 20 V                 | 50 V                 | 65.0 W            | 72.8 W  | 324 mA  | 80 °C         | -25 ... +50 °C         | 3.85 kΩ                                |
| LC 75W 900-1800mA flexC Ip EXC | 1,350 mA                    | 20 V                 | 50 V                 | 67.5 W            | 74.5 W  | 330 mA  | 80 °C         | -25 ... +50 °C         | 3.70 kΩ                                |
| LC 75W 900-1800mA flexC Ip EXC | 1,400 mA                    | 20 V                 | 50 V                 | 70.0 W            | 77.9 W  | 345 mA  | 80 °C         | -25 ... +50 °C         | 3.57 kΩ                                |
| LC 75W 900-1800mA flexC Ip EXC | 1,450 mA                    | 20 V                 | 50 V                 | 72.5 W            | 80.4 W  | 357 mA  | 80 °C         | -25 ... +50 °C         | 3.45 kΩ                                |
| LC 75W 900-1800mA flexC Ip EXC | 1,500 mA                    | 20 V                 | 50 V                 | 75.0 W            | 83.5 W  | 370 mA  | 80 °C         | -25 ... +50 °C         | 3.33 kΩ                                |
| LC 75W 900-1800mA flexC Ip EXC | 1,550 mA                    | 20 V                 | 48 V                 | 75.0 W            | 82.8 W  | 359 mA  | 80 °C         | -25 ... +50 °C         | 3.23 kΩ                                |
| LC 75W 900-1800mA flexC Ip EXC | 1,600 mA                    | 20 V                 | 47 V                 | 75.0 W            | 83.8 W  | 370 mA  | 80 °C         | -25 ... +50 °C         | 3.13 kΩ                                |
| LC 75W 900-1800mA flexC Ip EXC | 1,650 mA                    | 20 V                 | 45 V                 | 75.0 W            | 82.6 W  | 365 mA  | 80 °C         | -25 ... +50 °C         | 3.03 kΩ                                |
| LC 75W 900-1800mA flexC Ip EXC | 1,700 mA                    | 20 V                 | 44 V                 | 75.0 W            | 84.5 W  | 374 mA  | 80 °C         | -25 ... +50 °C         | 2.94 kΩ                                |
| LC 75W 900-1800mA flexC Ip EXC | 1,750 mA                    | 20 V                 | 43 V                 | 75.0 W            | 83.9 W  | 371 mA  | 80 °C         | -25 ... +50 °C         | 2.86 kΩ                                |
| LC 75W 900-1800mA flexC Ip EXC | 1,800 mA                    | 20 V                 | 42 V                 | 75.0 W            | 83.9 W  | 371 mA  | 80 °C         | -25 ... +50 °C         | 0.00 kΩ                                |

① Valid at 100 % dimming level.

② Depending on the selected output current.

③ Valid for Drivers with „DC new“ on the label. For old version typ. current (220 V, 0 Hz, full load, 50 % dimming level) is 175 mA.

④ Output current is mean value.

⑤ The min. achievable dimming level depends on the connected load. For details refer to chapter 4.7 Dimming in data sheet.

⑥ The table only lists a number of possible operating points but does not cover each single point. The output current can be set within the total value range in 1-mA-steps.

⑦ Not compatible with I-select (generation 1).