

# TRIDONIC

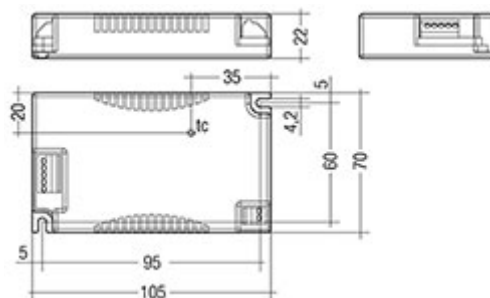
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## Driver LC 17W 250–700mA flexC C EXC

EXCITE series

### Product description

- Constant current LED Driver
- Dimmable via ready2mains Gateway
- Dimming range 15 – 100 % (Depending on load. For details refer to chapter 4.7 Dimming in data sheet.)
- Adjustable output current between 250 and 700 mA via ready2mains Programmer or I-select 2 plugs
- Max. output power 17 W
- Up to 84 % efficiency
- Nominal life-time up to 100,000 h
- 5-year guarantee



### Housing properties

- Casing: polycarbonate, white
- Type of protection IP20

### Interfaces

- ready2mains (configuration and dimming via mains)
- Terminal blocks: 45° 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 downlight, spotlight and decorative applications

### Ordering data

<a href="#">LC 17W 250-700mA flexC C EXC</a>	<b>28000693</b>	10 pc(s).	1,120 pc(s).	0.118 kg
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Approval marks:

Luminaire types:





### 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) (1) (2)	94 mA
Typ. current (220 V, 0 Hz, full load, 70 % dimming level)	55 mA
Leakage current (at 230 V, 50 Hz, full load) (1) (2)	< 250 µA
Max. input power	20.7 W
Typ. efficiency (at 230 V, 50 Hz, full load) (2)	84 %
$\lambda$ (at 230 V, 50 Hz, full load) (1)	0.95C
Typ. input current in no-load operation	17 mA
Typ. input power in no-load operation	0.6 W
In-rush current (peak / duration)	15 A / 204 µs
THD (at 230 V, 50 Hz, full load) (1)	< 10 %
Time to light (at 230 V, 50 Hz, full load) (1)	< 500 ms
Time to light (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 (1) (3)	± 5 %
Max. output current peak (non-repetitive)	≤ output current + 35 %
Output LF current ripple (< 120 Hz)	± 5 %
Max. output voltage (U-OUT)	60 V
Dimming range (4)	15 – 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	105 x 70 x 22 mm

(1) Valid at 100 % dimming level.

(2) Depending on the selected output current.

(3) Output current is mean value.

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



## Specific technical data





(1) (2)

<b>LC 17W 250-700mA flexC C EXC</b>	250 mA	15 V	50.0 V	12.5 W	15.7 W	74 mA	80 °C	-25 ... +55 °C	-
<b>LC 17W 250-700mA flexC C EXC</b>	300 mA	15 V	50.0 V	15.0 W	18.1 W	85 mA	80 °C	-25 ... +55 °C	1
<b>LC 17W 250-700mA flexC C EXC</b>	350 mA	15 V	48.6 V	17.0 W	20.4 W	94 mA	80 °C	-25 ... +55 °C	1
<b>LC 17W 250-700mA flexC C EXC</b>	400 mA	15 V	42.5 V	17.0 W	20.3 W	94 mA	80 °C	-25 ... +55 °C	1
<b>LC 17W 250-700mA flexC C EXC</b>	450 mA	15 V	37.8 V	17.0 W	20.2 W	93 mA	80 °C	-25 ... +55 °C	1
<b>LC 17W 250-700mA flexC C EXC</b>	500 mA	15 V	34.0 V	17.0 W	20.3 W	94 mA	80 °C	-25 ... +55 °C	1
<b>LC 17W 250-700mA flexC C EXC</b>	550 mA	15 V	30.9 V	17.0 W	20.2 W	93 mA	80 °C	-25 ... +55 °C	9
<b>LC 17W 250-700mA flexC C EXC</b>	600 mA	15 V	28.3 V	17.0 W	20.2 W	93 mA	80 °C	-25 ... +55 °C	8
<b>LC 17W 250-700mA flexC C EXC</b>	650 mA	15 V	26.2 V	17.0 W	20.2 W	93 mA	80 °C	-25 ... +55 °C	7
<b>LC 17W 250-700mA flexC C EXC</b>	700 mA	15 V	24.3 V	17.0 W	20.1 W	93 mA	80 °C	-25 ... +55 °C	6

(1) 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.

(2) Output current is mean value.

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

<input type="checkbox"/>			
<input type="checkbox"/>	 <a href="#">Data sheet</a>	1.21 MB	13/04/2018
<input type="checkbox"/>	 <a href="#">Driver LCA PRE / LC EXC – Product manual</a>	2.74 MB	31/07/2018
<input type="checkbox"/>	 <a href="#">Leaflet – ready2mains</a> 	1.23 MB	07/04/2017

 [Download all selected files](#)

## Further information

- ▶ ready2mains™  
(<http://www.tridonic.com/com/en/products/luxcontrol-ready2mains.asp>)
- ▶ FAQ – LED systems TALEXX  
(<http://www.tridonic.com/com/en/faq-led.asp>)
- ▶ Reference projects  
(<http://www.tridonic.com/com/en/reference-projects.asp>)
- ▶ Environmental declarations

(<http://www.tridonic.com/com/en/environmental-declarations.asp>)

#### Certificates / declarations of conformity

LC 17W 250-700mA flexC C EXC	28000693	<a href="#">Certificates</a> (6)

## I-SELECT 2 PLUG PRE / EXC Accessories

### Product description

- Ready-for-use resistor to set output current value
- Compatible with LED Driver featuring I-select 2 interface; not compatible with I-select (generation 1)
- Resistor is base isolated
- Resistor power 0.25 W
- Current tolerance  $\pm 2\%$  additional to output current tolerance
- Compatible with LED Driver series PRE and EXC



### Example of calculation

- $R \text{ [k}\Omega\text{]} = 5 \text{ V} / I_{\text{out}} \text{ [mA]} \times 1000$
- Resistor value tolerance  $\leq 1\%$ ; resistor power  $\geq 0.1 \text{ W}$ ; base isolation necessary

### Ordering data

I-SELECT 2 PLUG 250MA BL	28001106	Blue	0250 mA	250 mA	20.00 k $\Omega$	10 pc(s).	0.001 kg
I-SELECT 2 PLUG 275MA BL	28001107	Blue	0275 mA	275 mA	18.18 k $\Omega$	10 pc(s).	0.001 kg
I-SELECT 2 PLUG 300MA BL	28001108	Blue	0300 mA	300 mA	16.67 k $\Omega$	10 pc(s).	0.001 kg
I-SELECT 2 PLUG 325MA BL	28001109	Blue	0325 mA	325 mA	15.38 k $\Omega$	10 pc(s).	0.001 kg
I-SELECT 2 PLUG 350MA BL	28001110	Blue	0350 mA	350 mA	14.29 k $\Omega$	10 pc(s).	0.001 kg
I-SELECT 2 PLUG 375MA BL	28001111	Blue	0375 mA	375 mA	13.33 k $\Omega$	10 pc(s).	0.001 kg
I-SELECT 2 PLUG 400MA BL	28001112	Blue	0400 mA	400 mA	12.50 k $\Omega$	10 pc(s).	0.001 kg
I-SELECT 2 PLUG 425MA BL	28001251	Blue	0425 mA	425 mA	11.76 k $\Omega$	10 pc(s).	0.001 kg
I-SELECT 2 PLUG 450MA BL	28001113	Blue	0450 mA	450 mA	11.11 k $\Omega$	10 pc(s).	0.001 kg
	28001252	Blue			10.53 k $\Omega$	10 pc(s).	0.001 kg

**Ordering data**

<b>I-SELECT 2 PLUG 475MA BL</b>			0475 mA	475 mA			
<b>I-SELECT 2 PLUG 500MA BL</b>	<b>28001114</b>	Blue	0500 mA	500 mA	10.00 kΩ	10 pc(s).	0.001 kg
<b>I-SELECT 2 PLUG 525MA BL</b>	<b>28001960</b>	Blue	0525 mA	525 mA	9.52 kΩ	10 pc(s).	0.001 kg
<b>I-SELECT 2 PLUG 600MA BL</b>	<b>28001116</b>	Blue	0600 mA	600 mA	8.33 kΩ	10 pc(s).	0.001 kg
<b>I-SELECT 2 PLUG 650MA BL</b>	<b>28001117</b>	Blue	0650 mA	650 mA	7.69 kΩ	10 pc(s).	0.001 kg
<b>I-SELECT 2 PLUG 700MA BL</b>	<b>28001118</b>	Blue	0700 mA	700 mA	7.14 kΩ	10 pc(s).	0.001 kg

**CAD / RAY**

LC 17W 250-700mA flexC C EXC

**28000693**[CAD \(756.5 KB\)](#)**EPD**

LC 17W 250-700mA flexC C EXC

**28000693**[EPD](#)

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