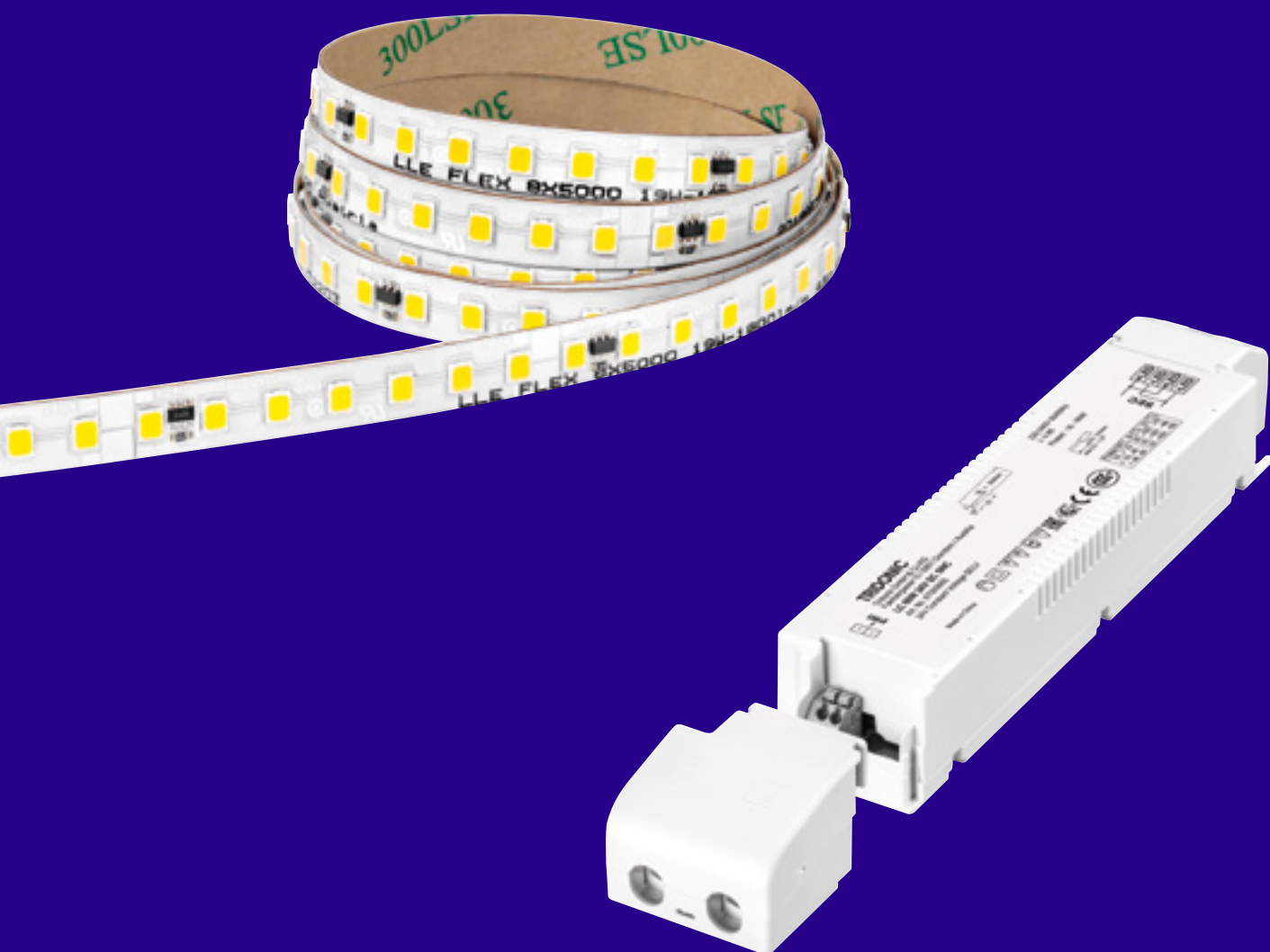


LED modules & LED drivers

# Application constant voltage, 24 V

Homogeneous light from the reel



**TRIDONIC**

# Applications and product portfolio

## Homogeneous light from the reel

### Main applications

#### Cove lighting



- Including accent and indirect lighting
- For hotels, shops, guest rooms, etc.

#### General illumination



- For flexible applications
- For shops, commercial premises, etc.

#### Profile lighting



- Shelf and accent lighting
- Linear Furniture lighting

**The extremely homogeneous 24 V LED module LLE FLEX continuous lighting strip can perform numerous different lighting tasks – from decorative indirect, cove or accent lighting to direct general lighting with light lines. It can also be used in profile lighting.**

Matching 24 V constant voltage drivers from Tridonic complete the LLE FLEX modules, creating a perfect system solution. The flexible LED strips can be used for a variety of lighting solutions, to meet any demands.

| Feature                | LLE FLEX EXC2 IP67                      | LLE FLEX EXC3  | LLE FLEX ADV  | LLE FLEX SNC   |
|------------------------|---|--|---|--|
| Dimensions (L x B x W) | 5,000 x 15.5 mm                         | 50,000 x 8 x 1.5 mm<br>50,000 x 12 x 1.5 mm<br>5,000 x 8 x 1.5 mm<br>5,000 x 12 x 1.5 mm | 50,000 x 8 x 2 mm,<br>50,000 x 12 x 2 mm<br>5,000 x 8 x 2 mm<br>5,000 x 12 x 2 mm | 4,800 x 8 x 2 mm                                     |
| Typ luminous flux      | 600 lm, 1,200 lm, 1,800 lm              | 600 lm, 1,200 lm, 1,800 lm, 2,500 lm<br>3,000 lm, 4,000 lm                               | 600 lm, 1,200 lm, 1,800 lm, 2,500 lm,<br>3,000 lm, 4,000 lm                       | 600 lm, 1,200 lm, 1,800 lm                           |
| Colour temperature     | 2,700 K, 3,000 K, 4,000 K<br>and SDCM 3 | 2,700 K, 3,000 K, 4,000 K<br>6,500 K with SDCM 3   | 2,700 K, 3,000 K, 4,000 K and<br>6,500 K with SDCM 3                              | 2,700 K, 3,000 K, 4,000 K<br>and 6,500 K with SDCM 5 |
| Module efficacy        | 119 lm/W                                | 135 lm/W   | 150 lm/W  | 125 lm/W   |
| Colour rendering index | CRI >90                                 | CRI >90  | CRI >80   | CRI >80  |
| Cutting options        | 50 mm Cutting options                   | 50 mm Cutting options  | 100 mm Cutting options  | 50 mm Cutting options                                |
| Pitch distance         | 7.1 mm Pitch distance                   | 7.1 mm Pitch distance  | 14.2 mm Pitch distance  | 8.3 mm Pitch distance                                |

# Applications and product portfolio

## Homogeneous light from the reel

### Matching constant current drivers at a glance

#### Portfolio

#### premium (PRE)

Comfortable

- Application-related specifications
- Focus on core functions
- Proven Tridonic quality

#### excite (EXC)

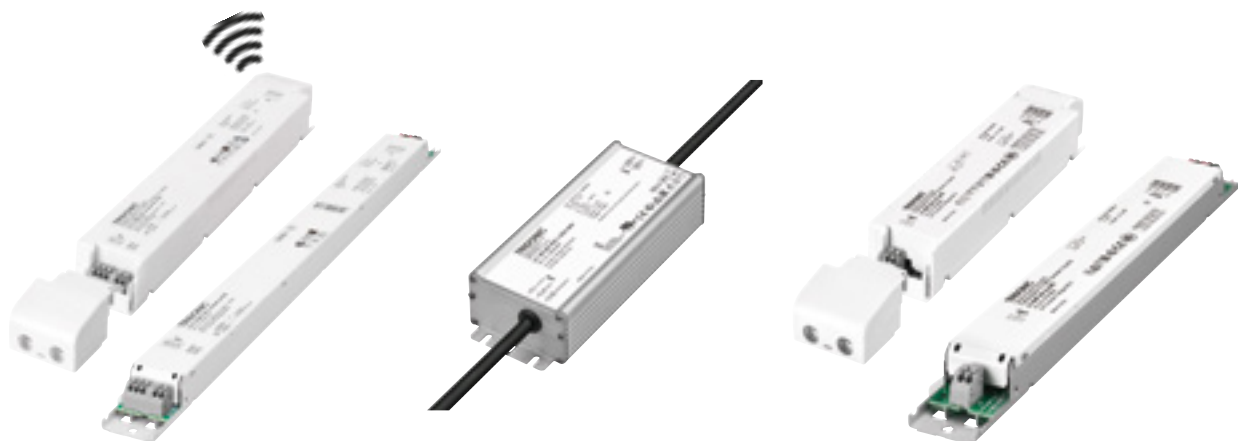
Flexible

- Maximum convenience for your application
- Universal input voltage range

#### essence (SNC)

Cost effective

- Easy to connect
- Highest efficiency
- Excellent quality of light for sophisticated demands



**Available in three categories** – premium (PRE), excite (EXC) and essence (SNC) – the 24 V constant-current drivers are always able to offer the perfect solution. Depending on requirements, the lighting can be dimmed via DALI or an external PMW dimmer or controlled wirelessly via the integrated basicDIM Wireless module.

| Type                   | premium Series (PRE)       | excite Series (EXC)                          | excite Series (EXC) IP67                     | essence Series (SNC)                         |
|------------------------|----------------------------|--|--|--|
| Dimmable               | basicDIM Wireless, one4all | via external bDW CV module<br>PMW LED dimmer | via external bDW CV module<br>PMW LED dimmer | via external bDW CV module<br>PMW LED dimmer |
| Casing types           | SC, Ip                     | SR   | IP67 L                                       | SC, Ip                                       |
| Wattages               | 18, 35, 60, 100, 150 W     | 35, 60, 96, 100, 150, 180 W                  | 35, 75, 100, 200 W                           | 18, 35, 60, 100, 200 W                       |
| Input voltage (V)      | 220-240                    | 120-277                                      | 90-305                                       | 220-240                                      |
| Output voltage (V)     | 24 V                       | 12 V, 24 V                                   | 24 V   | 24 V   |
| Lifetime               | up to 50,000 h             | up to 50,000 h                               | up to 50,000 h                               | up to 50,000 h                               |
| Suitable for Emergency | yes                        | no   | no   | no   |

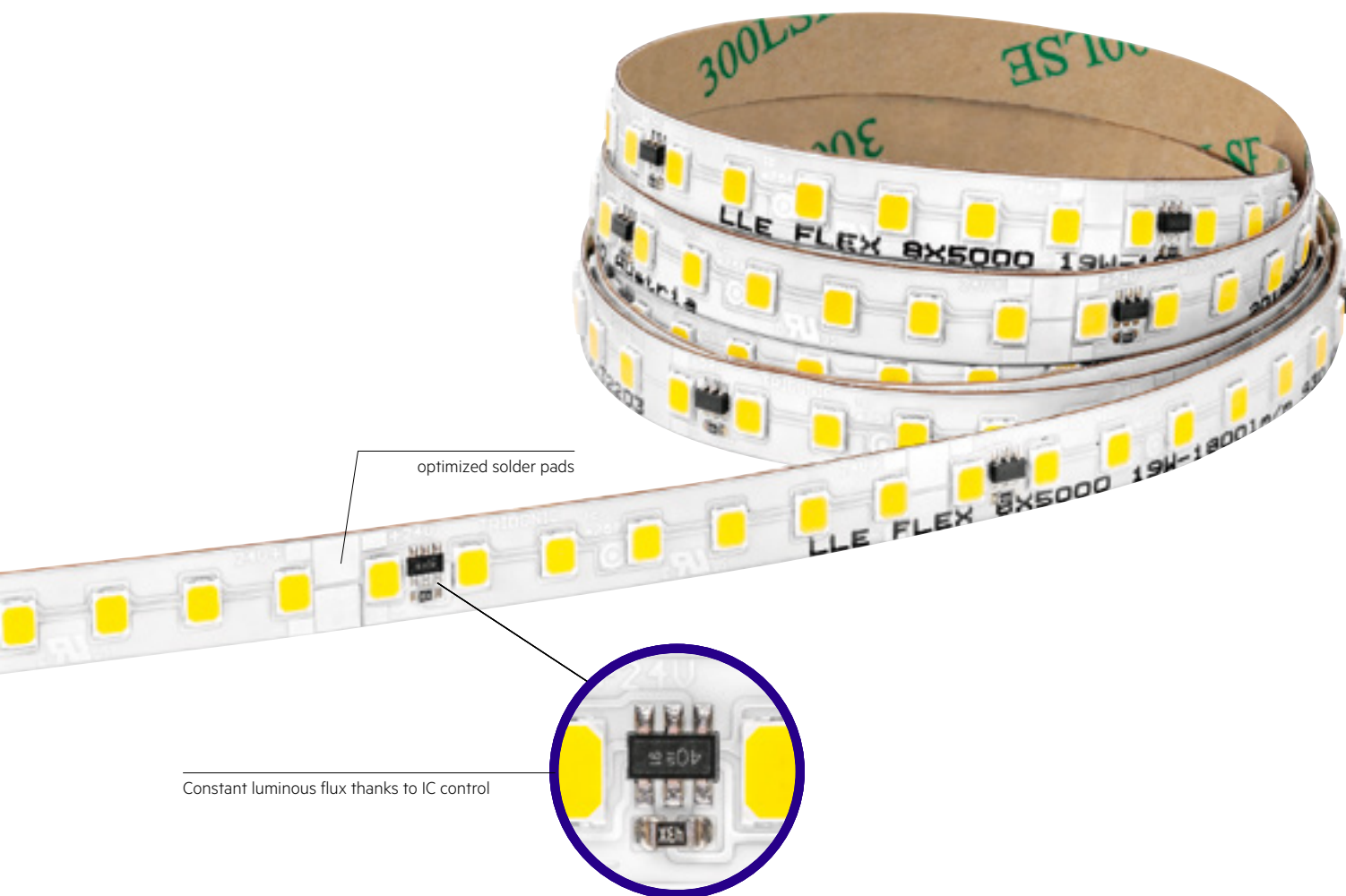
Modul LLE FLEX

## excite (EXC3) + advanced (ADV3)

More flexibility and greater efficiency – made in Austria

### More flexibility. Optimised luminous flux. Maximum design freedom.

The second generation of flexible 24 V lighting strips is waiting, with a new continuous PCB, which is produced using the reel2reel method and does not require any solder points at all. The possibility of making a greater number of more accurate cuts means the design possibilities are practically unlimited.



# excite3 (EXC3)

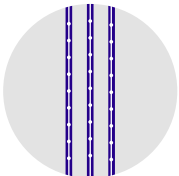
## More flexibility and greater efficiency – made in Austria

### Advantages of reel2reel



#### Maximum quality

The continuous substrate is equipped with several control points which immediately detect any irregularities. Defects can thus be reduced to a minimum and easily tracked.



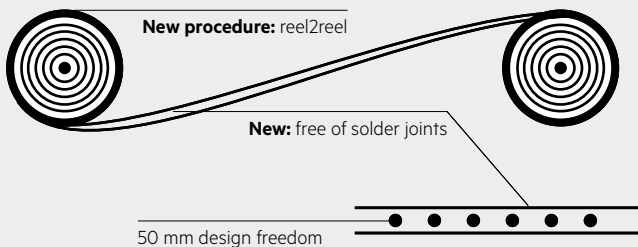
#### Constant luminous flux

The LLE FLEX module has a wide luminous flux range from 600 to 4,000 lm/m. To keep the luminous flux constant the LED chips were subject to a targeted update and the LED strips provided with an IC control every five centimetres.



#### Individual lengths

Given the option of making a cut every five or ten centimetres, the LED strip can be individually adapted to any requirement, offering impressively simple separability and extremely low light tolerance.



**Soldering was yesterday's game. With reel2reel, Tridonic is using an innovative production method, which allows for a series of outstanding features for the LLE FLEX flexible LED strips.**

In contrast to manual soldering, which is used on over 90 percent of the length sections, the automatic reel2reel method does not require any solder points at all. Thus, the LLE FLEX can be cut at many more places and offers high flexibility.

Modul LLE FLEX

## excite3 (EXC3)

More flexibility and greater efficiency – made in Austria

At a glance:

### Module LLE FLEX EXC3: reel2reel

- Dimmable 24 V constant voltage strip (SELV)
- Extremely narrow pitch distance enables short distance to diffuser and outstanding homogeneity
- Efficacy of the module up to 135 lm/W
- Luminous flux range of 600, 1,200, 1,800 and 2,500 lm/m, 3,000 lm/m, 4,000 lm/m
- Colour temperature 2,700, 3,000, 4,000 and 6,500 K with SDCM 3
- High design freedom due to 5 cm cut-options
- PCB to PCB and wire to PCB connectors for toolless handling and connection\*
- reel2reel – No solder joints on the tape, easy to separate and low length tolerances

Guarantee 5 years

Lifetime 50,000 hrs

MacAdam 3

Made in Austria

\* Valid for a width of 8 mm

LED-Module LLE FLEX EXC3

Width: 8 mm, 12 mm



Luminous flux range of 600, 1,200, 1,800 und 2,500, 3,000 und 4,000 lm/m

# excite3 (EXC3)

More flexibility and greater efficiency – made in Austria

## Module LLE FLEX CRI > 90 EXC2

| Type                                   | Colour-temperature (K) | Mac Adam | Typ. luminous flux $\tau_p = 65^\circ\text{C}^1)$ (lm/m) | CRI  | Typ. power consumption $\tau_p = 65^\circ\text{C}^1)$ (W/m) | Luminous efficacy of module $\tau_p = 65^\circ\text{C}$ (lm/W) | Order No. |
|--|------------------------|----------|--|------|---|--|-----------|
| <b>LLE FLEX EXC3 width: 8 mm</b>       |                        |          |  |      |   |  |           |
| <b>5,000 mm roll</b>                   |                        |          |  |      |   |  |           |
| LLE FLEX 8x5000 6W-600lm/m 927 EXC3    | 2,700                  | SDCM 3   | 615  | > 90 | 5.3   | 115  | 28003606  |
| LLE FLEX 8x5000 6W-600lm/m 930 EXC3    | 3,000                  | SDCM 3   | 630  | > 90 | 5.3   | 118  | 28003607  |
| LLE FLEX 8x5000 6W-600lm/m 940 EXC3    | 4,000                  | SDCM 3   | 595  | > 90 | 4.9   | 122  | 28003608  |
| LLE FLEX 8x5000 6W-600lm/m 965 EXC3    | 6,500                  | SDCM 3   | 595  | > 90 | 4.9   | 122  | 28003609  |
| LLE FLEX 8x5000 11W-1200lm/m 927 EXC3  | 2,700                  | SDCM 3   | 1,200  | > 90 | 10.2  | 118  | 28003610  |
| LLE FLEX 8x5000 11W-1200lm/m 930 EXC3  | 3,000                  | SDCM 3   | 1,230  | > 90 | 10.2  | 121  | 28003611  |
| LLE FLEX 8x5000 11W-1200lm/m 940 EXC3  | 4,000                  | SDCM 3   | 1,160  | > 90 | 9.2   | 126  | 28003612  |
| LLE FLEX 8x5000 11W-1200lm/m 965 EXC3  | 6,500                  | SDCM 3   | 1,160  | > 90 | 9.2   | 126  | 28003613  |
| LLE FLEX 8x5000 19W-1800lm/m 927 EXC2  | 2,700                  | SDCM 3   | 1,730  | > 90 | 15.3  | 117  | 28003614  |
| LLE FLEX 8x5000 19W-1800lm/m 930 EXC2  | 3,000                  | SDCM 3   | 1,820  | > 90 | 15.3  | 120  | 28003615  |
| LLE FLEX 8x5000 17W-1800lm/m 940 EXC2  | 4,000                  | SDCM 3   | 1,840  | > 90 | 14.3  | 126  | 28003616  |
| LLE FLEX 8x5000 17W-1800lm/m 965 EXC2  | 6,500                  | SDCM 3   | 1,840  | > 90 | 14.3  | 126  | 28003617  |
| LLE FLEX 8x5000 27W-2500lm/m 927 EXC2  | 2,700                  | SDCM 3   | 2,400  | > 90 | 21.8  | 116  | 28003618  |
| LLE FLEX 8x5000 27W-2500lm/m 930 EXC2  | 3,000                  | SDCM 3   | 2,520  | > 90 | 20.6  | 119  | 28003619  |
| LLE FLEX 8x5000 27W-2500lm/m 940 EXC2  | 4,000                  | SDCM 3   | 2,500  | > 90 | 20.6  | 125  | 28003620  |
| LLE FLEX 8x5000 23W-2500lm/m 965 EXC2  | 6,500                  | SDCM 3   | 2,500  | > 90 | 20.6  | 125  | 28003621  |
| <b>50,000 mm roll</b>                  |                        |          |  |      |   |  |           |
| LLE FLEX 8x50000 11W-1200lm/m 927 EXC3 | 2,700                  | SDCM 3   | 1,200  | > 90 | 10.2  | 118  | 28003675  |
| LLE FLEX 8x50000 11W-1200lm/m 930 EXC3 | 3,000                  | SDCM 3   | 1,230  | > 90 | 10.2  | 121  | 28003676  |
| LLE FLEX 8x50000 11W-1200lm/m 940 EXC3 | 4,000                  | SDCM 3   | 1,160  | > 90 | 9.2   | 126  | 28003677  |
| LLE FLEX 8x50000 19W-1800lm/m 927 EXC3 | 2,700                  | SDCM 3   | 1,790  | > 90 | 15.3  | 117  | 28003679  |
| LLE FLEX 8x50000 19W-1800lm/m 930 EXC3 | 3,000                  | SDCM 3   | 1,830  | > 90 | 15.3  | 120  | 28003680  |
| LLE FLEX 8x50000 19W-1800lm/m 940 EXC3 | 4,000                  | SDCM 3   | 1,800  | > 90 | 14.3  | 126  | 28003681  |
| LLE FLEX 8x50000 27W-2500lm/m 927 EXC3 | 2,700                  | SDCM 3   | 2,520  | > 90 | 21.8  | 116  | 28003683  |
| LLE FLEX 8x50000 27W-2500lm/m 930 EXC3 | 3,000                  | SDCM 3   | 2,450  | > 90 | 20.6  | 119  | 28003684  |
| LLE FLEX 8x50000 27W-2500lm/m 940 EXC3 | 4,000                  | SDCM 3   | 2,560  | > 90 | 20.6  | 125  | 28003685  |
| <b>LLE FLEX EXC2 width: 12 mm</b>      |                        |          |  |      |   |  |           |
| <b>5,000 mm roll</b>                   |                        |          |  |      |   |  |           |
| LLE FLEX 12x5000 35W-3000lm/m 927 EXC2 | 2,700                  | SDCM 3   | 2,900  | > 90 | 35  | 83   | 28002792  |
| LLE FLEX 12x5000 35W-3000lm/m 930 EXC2 | 3,000                  | SDCM 3   | 3,050  | > 90 | 35  | 87   | 28002793  |
| LLE FLEX 12x5000 30W-3000lm/m 940 EXC2 | 4,000                  | SDCM 3   | 3,020  | > 90 | 30.2  | 101  | 28002794  |
| LLE FLEX 12x5000 30W-3000lm/m 965 EXC2 | 6,500                  | SDCM 3   | 3,020  | > 90 | 30.2  | 101  | 28002795  |
| LLE FLEX 12x5000 48W-4000lm/m 927 EXC2 | 2,700                  | SDCM 3   | 3,835  | > 90 | 47.5  | 81   | 28002796  |
| LLE FLEX 12x5000 48W-4000lm/m 930 EXC2 | 3,000                  | SDCM 3   | 4,020  | > 90 | 47.6  | 85   | 28002797  |
| LLE FLEX 12x5000 41W-4000lm/m 940 EXC2 | 4,000                  | SDCM 3   | 4,010  | > 90 | 40.8  | 98   | 28002798  |
| LLE FLEX 12x5000 41W-4000lm/m 965 EXC2 | 6,500                  | SDCM 3   | 4,010  | > 90 | 40.8  | 98   | 28002799  |
| <b>50,000 mm roll</b>                  |                        |          |  |      |   |  |           |
| LLE FLEX 12x5000 35W-3000lm/m 927 EXC2 | 2,700                  | SDCM 3   | 2,900  | > 90 | 35  | 83   | 28002821  |
| LLE FLEX 12x5000 35W-3000lm/m 930 EXC2 | 3,000                  | SDCM 3   | 3,050  | > 90 | 35  | 87   | 28002822  |
| LLE FLEX 12x5000 35W-3000lm/m 940 EXC2 | 4,000                  | SDCM 3   | 3,020  | > 90 | 30.2  | 101  | 28002823  |
| LLE FLEX 12x5000 48W-4000lm/m 927 EXC2 | 6,500                  | SDCM 3   | 3,835  | > 90 | 47.5  | 81   | 28002824  |
| LLE FLEX 12x5000 48W-4000lm/m 930 EXC2 | 2,700                  | SDCM 3   | 4,020  | > 90 | 47.6  | 85   | 28002825  |
| LLE FLEX 12x5000 48W-4000lm/m 940 EXC2 | 3,000                  | SDCM 3   | 4,010  | > 90 | 40.8  | 98   | 28002826  |

<sup>1)</sup> Tolerance range for optical data  $\pm 15\%$ ; measurement uncertainty  $\pm 10\%$ ; Values given for 1 m LLE FLEX

# excite (EXC2), IP67 airGAP Technology

**Protection class IP67 makes the flexible continuous row partially suitable for use in bathroom luminaires and awnings. The innovative airGAP production process has allowed Tridonic to completely eliminate the usual chromaticity colour shift in higher protection classes.**

This makes LLE FLEX IP67 EXC2 perfect for combining with continuous rows without an IP protection class. The result – a homogeneous lighting effect and uniform colour temperature. The specially developed flat connection systems, comprising connectors, and front and end cap, make handling easy. And the 3M adhesive tape makes installation easy, too.



At a glance:

### Module LLE FLEX IP67 EXC2

- IP67-protected flexible LED strips
- Efficiency up to 119 lm/W
- airGAP technology for stable colour temperatures without chromaticity colour shift
- High design flexibility thanks to 50 mm cutting options
- Own connectors and matching accessories
- Temperature range: -30 °C to +50 °C
- Accessories for easy connection and linking of several modules

Guarantee 5 years    Lifetime 50.000 hrs    MacAdam 3

### Module LLE FLEX CRI > 90 IP67 EXC2

| Type                                  | Colour-temperature (K) | Mac Adam | Typ, luminous flux tp = 65 °C <sup>1)</sup> (lm/m) | CRI  | Typ, power consumption tp = 65 °C <sup>1)</sup> (W/m) | Luminous efficacy of module tp = 65 °C (lm/W) | Order No. |
|---------------------------------------|------------------------|----------|--|------|---|---|-----------|
| <b>LLE FLEX EXC2 6 W</b>              |                        |          |  |      |   |   |           |
| <b>5,000 mm Role</b>                  |                        |          |  |      |   |   |           |
| LLE FLEX 6 W-600lm/m 927 IP67 EXC2*   | 2,700                  | SDCM 3   | 585  | > 90 | 5.4   | 108   | 28003292  |
| LLE FLEX 6 W-600lm/m 930 IP67 EXC2*   | 3,000                  | SDCM 3   | 595  | > 90 | 5.4   | 110   | 28003193  |
| LLE FLEX 6 W-600lm/m 940 IP67 EXC2*   | 4,000                  | SDCM 3   | 595  | > 90 | 5.0   | 119   | 28003194  |
| <b>LLE FLEX EXC2 12 W</b>             |                        |          |  |      |   |   |           |
| LLE FLEX 12 W-1200lm/m 927 IP67 EXC2* | 2,700                  | SDCM 3   | 1,180  | > 90 | 10.8  | 108   | 28003195  |
| LLE FLEX 12 W-1200lm/m 930 IP67 EXC2* | 3,000                  | SDCM 3   | 1,200  | > 90 | 10.8  | 110   | 28003196  |
| LLE FLEX 12 W-1200lm/m 940 IP67 EXC2* | 4,000                  | SDCM 3   | 1,200  | > 90 | 10.2  | 117   | 28003197  |
| <b>LLE FLEX EXC2 18 W</b>             |                        |          |  |      |   |   |           |
| LLE FLEX 18 W-1800lm/m 927 IP67 EXC2* | 2,700                  | SDCM 3   | 1,770  | > 90 | 16.4  | 108   | 28003198  |
| LLE FLEX 18 W-1800lm/m 930 IP67 EXC2* | 3,000                  | SDCM 3   | 1,800  | > 90 | 16.4  | 110   | 28003199  |
| LLE FLEX 18 W-1800lm/m 940 IP67 EXC2* | 4,000                  | SDCM 3   | 1,800  | > 90 | 15.4  | 117   | 28003200  |

<sup>1)</sup> Optical tolerances and electrical data: ±10 %; data per 1 m LLE FLEX



# advanced (ADV3)

## Meter-long third-generation solutions

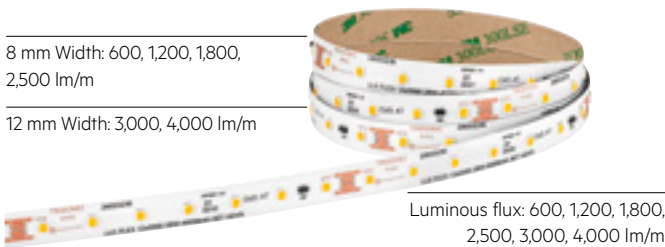
The third generation of the advanced LED strips (ADV3) enables meter-long solutions with uniformly high luminous flux. Manufactured using the reel2reel process, LLE FLEX ADV3 has absolutely no soldering points.

The module can also be precisely cut at every ten centimetres, creating high design flexibility. A chip upgrade has made the LLE FLEX ADV3 extremely efficient. The IC control ensures that the colour stability remains constant even over large stretches.

Colortemperature: 2,700, 3,000, 4,000 und 6,500 K

8 mm Width: 600, 1,200, 1,800, 2,500 lm/m

12 mm Width: 3,000, 4,000 lm/m



Luminous flux: 600, 1,200, 1,800, 2,500, 3,000, 4,000 lm/m

At a glance:

### Module LLE FLEX ADV3 | 8 + 12 mm

- reel2reel production in Austria
- Efficiency up to 150 lm/W
- Cutting option every 100 mm
- Constant luminous flux up to 10 metres
- Colour rendering CRI > 80

Guarantee 5 years

Lifetime 50.000 hrs

MacAdam 3

Made in Austria

### Module LLE FLEX CRI > 80 ADV3

| Type                                     | Colour-temperature (K) | Mac Adam | Typ, luminous flux tp = 65 °C <sup>1)</sup> (lm/m) | CRI  | Typ, power consumption tp = 65 °C <sup>1)</sup> (W/m) | Luminous efficacy of module tp = 65 °C (lm/W) | Order No. |
|--|------------------------|----------|--|------|---|---|-----------|
| <b>LLE FLEX ADV3 Width: 8 mm</b>         |                        |          |  |      |   |   |           |
| LLE FLEX 8x5000 4W-600 lm/m 827 ADV3*    | 2,700                  | SDCM 3   | 535  | > 80 | 3.7   | 139   | 28003216  |
| LLE FLEX 8x5000 4W-600 lm/m 830 ADV3*    | 3,000                  | SDCM 3   | 515  | > 80 | 3.6   | 142   | 28003217  |
| LLE FLEX 8x5000 4W-600 lm/m 840 ADV3*    | 4,000                  | SDCM 3   | 530  | > 80 | 3.5   | 151   | 28003218  |
| LLE FLEX 8x5000 4W-600 lm/m 865 ADV3*    | 6,500                  | SDCM 3   | 525  | > 80 | 3.5   | 150   | 28003219  |
| LLE FLEX 8x5000 8W-1200 lm/m 827 ADV3*   | 2,700                  | SDCM 3   | 1,090  | > 80 | 7.9   | 138   | 28003220  |
| LLE FLEX 8x5000 8W-1200 lm/m 830 ADV3*   | 3,000                  | SDCM 3   | 1,070  | > 80 | 7.5   | 143   | 28003221  |
| LLE FLEX 8x5000 7W-1200 lm/m 840 ADV3*   | 4,000                  | SDCM 3   | 1,060  | > 80 | 7.0   | 151   | 28003222  |
| LLE FLEX 8x5000 7W-1200 lm/m 865 ADV3*   | 6,500                  | SDCM 3   | 1,060  | > 80 | 7.0   | 151   | 28003223  |
| LLE FLEX 8x5000 12W-1800 lm/m 827 ADV3*  | 2,700                  | SDCM 3   | 1,650  | > 80 | 12.2  | 136   | 28003224  |
| LLE FLEX 8x5000 11W-1800 lm/m 830 ADV3*  | 3,000                  | SDCM 3   | 1,580  | > 80 | 11.8  | 141   | 28003225  |
| LLE FLEX 8x5000 11W-1800 lm/m 840 ADV3*  | 4,000                  | SDCM 3   | 1,600  | > 80 | 10.8  | 149   | 28003226  |
| LLE FLEX 8x5000 11W-1800 lm/m 865 ADV3*  | 6,500                  | SDCM 3   | 1,600  | > 80 | 10.8  | 149   | 28003227  |
| LLE FLEX 8x5000 17W-2500 lm/m 827 ADV3*  | 2,700                  | SDCM 3   | 2,300  | > 80 | 17.1  | 134   | 28003228  |
| LLE FLEX 8x5000 16W-2500 lm/m 830 ADV3*  | 3,000                  | SDCM 3   | 2,250  | > 80 | 16.3  | 138   | 28003229  |
| LLE FLEX 8x5000 15W-2500 lm/m 840 ADV3*  | 4,000                  | SDCM 3   | 2,250  | > 80 | 15.3  | 147   | 28003230  |
| LLE FLEX 8x5000 15W-2500 lm/m 865 ADV3*  | 6,500                  | SDCM 3   | 2,250  | > 80 | 15.3  | 146   | 28003231  |
| <b>LLE FLEX ADV3 Width: 12 mm</b>        |                        |          |  |      |   |   |           |
| LLE FLEX 12x5000 21W-3000 lm/m 827 ADV3* | 2,700                  | SDCM 3   | 819  | > 80 | 19.7  | 146   | 28003232  |
| LLE FLEX 12x5000 21W-3000 lm/m 830 ADV3* | 3,000                  | SDCM 3   | 884  | > 80 | 21.2  | 137   | 28003233  |
| LLE FLEX 12x5000 20W-3000 lm/m 840 ADV3* | 4,000                  | SDCM 3   | 819  | > 80 | 19.7  | 146   | 28003234  |
| LLE FLEX 12x5000 20W-3000 lm/m 865 ADV3* | 6,500                  | SDCM 3   | 819  | > 80 | 19.7  | 146   | 28003235  |
| LLE FLEX 12x5000 28W-4000 lm/m 827 ADV3* | 2,700                  | SDCM 3   | 1,169  | > 80 | 28.1  | 131   | 28003236  |
| LLE FLEX 12x5000 28W-4000 lm/m 830 ADV3* | 3,000                  | SDCM 3   | 1,169  | > 80 | 28.1  | 135   | 28003237  |
| LLE FLEX 12x5000 26W-4000 lm/m 840 ADV3* | 4,000                  | SDCM 3   | 1,099  | > 80 | 26.4  | 143   | 28003238  |
| LLE FLEX 12x5000 26W-4000 lm/m 865 ADV3* | 6,500                  | SDCM 3   | 1,099  | > 80 | 26.4  | 143   | 28003239  |

<sup>1)</sup>Tolerance range for optical data ±15 %; measurement uncertainty ±10 %; Values given for 1 m LLE FLEX

# essence (SNC2)

## A simple solution for decorative lighting

The dimmable 24 V LED light strip of the essence category (SNC2) combines solid performance with an attractive price. The cutting options every 50 millimetres open up great design scope, which is particularly beneficial for decorative lighting applications such

as façade, cove or indirect ceiling lighting. Different luminous fluxes and colour temperatures offer additional flexibility. Thanks to the sophisticated mounting concept, LLE FLEX SNC can be attached to a variety of surfaces without tools.



At a glance:  
**Module LLE FLEX SNC2**

- Flexible LED strips
- Efficiency up to 133 lm/W
- Maximum design flexibility thanks to 50 mm cutting options
- Light point intervals of 8.3 mm enables highly homogeneous light
- CRI > 80
- Easy installation using 3M thermal adhesive tape on different surfaces
- PCB to PCB and cable to PCB connectors for tool-free operation and connection

Guarantee 5 yrs

Lifetime 50.000 hrs

MacAdam 3

### Module LLE FLEX CRI80 SNC

| Type                                   | Colour-temperature (K) | Mac Adam | Typ. luminous flux tp = 65 °C <sup>9)</sup> (lm/m) | CRI  | Typ. power consumption tp = 65 °C <sup>9)</sup> (W/m) | Luminous efficacy of module tp = 65 °C (lm/W) | Order No. |
|--|------------------------|----------|--|------|---|---|-----------|
| <b>LLE FLEX SNC, 600 lm</b>            |                        |          |  |      |   |   |           |
| LLE FLEX 8x5.000 5W 600lm/m 827 SNC2   | 2,700                  | SDCM 3   | 590  | > 80 | 5.0   | 118   | 28003323  |
| LLE FLEX 8x5.000 5W 600lm/m 830 SNC2   | 3,000                  |          | 620  | > 80 | 5.0   | 124   | 28003324  |
| LLE FLEX 8x5.000 5W 600lm/m 840 SNC2   | 4,000                  |          | 615  | > 80 | 4.7   | 133   | 28003325  |
| LLE FLEX 8x5.000 5W 600lm/m 865 SNC2   | 6,500                  |          | 610  | > 80 | 4.7   | 131   | 28003351  |
| <b>LLE FLEX SNC, 1200 lm</b>           |                        |          |  |      |   |   |           |
| LLE FLEX 8x5.000 10W 1200lm/m 827 SNC2 | 2,700                  | SDCM 3   | 1,180  | > 80 | 10.1  | 118   | 28003326  |
| LLE FLEX 8x5.000 10W 1200lm/m 830 SNC2 | 3,000                  |          | 1,240  | > 80 | 10.1  | 124   | 28003327  |
| LLE FLEX 8x5.000 10W 1200lm/m 840 SNC2 | 4,000                  |          | 1,260  | > 80 | 9.7   | 133   | 28003328  |
| LLE FLEX 8x5.000 10W 1200lm/m 865 SNC2 | 6,500                  |          | 1,250  | > 80 | 9.7   | 131   | 28003352  |
| <b>LLE FLEX SNC, 1800 lm</b>           |                        |          |  |      |   |   |           |
| LLE FLEX 8x5.000 15W 1800lm/m 827 SNC2 | 2,700                  | SDCM 3   | 1,800  | > 80 | 15.4  | 117   | 28003329  |
| LLE FLEX 8x5.000 15W 1800lm/m 830 SNC2 | 3,000                  |          | 1,880  | > 80 | 15.4  | 122   | 28003330  |
| LLE FLEX 8x5.000 15W 1800lm/m 840 SNC2 | 4,000                  |          | 1,890  | > 80 | 14.7  | 131   | 28003331  |
| LLE FLEX 8x5.000 15W 1800lm/m 865 SNC2 | 6,500                  |          | 1,870  | > 80 | 14.7  | 129   | 28003353  |
| <b>LLE FLEX SNC, 2500 lm</b>           |                        |          |  |      |   |   |           |
| LLE FLEX 8x5.000 21W 2500lm/m 827 SNC2 | 2,700                  | SDCM 3   | 2,500  | > 80 | 21.5  | 117   | 28003332  |
| LLE FLEX 8x5.000 21W 2500lm/m 830 SNC2 | 3,000                  |          | 2,610  | > 80 | 21.5  | 122   | 28003333  |
| LLE FLEX 8x5.000 21W 2500lm/m 840 SNC2 | 4,000                  |          | 2,640  | > 80 | 20.3  | 130   | 28003334  |
| LLE FLEX 8x5.000 21W 2500lm/m 865 SNC2 | 6,500                  |          | 2,610  | > 80 | 20.3  | 128   | 28003354  |

<sup>9)</sup> Tolerance range for optical data ±15 %; measurement uncertainty ±10 %; Values given for 1 m LLE FLEX

# premium (PRE)

## Dynamic lighting solutions with Tunable White

**With the flexible LED strip in the premium (PRE) category, high-quality lighting solutions can be realised that create atmospheric and individual colour accents.**

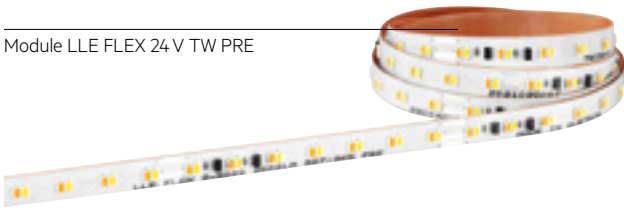
The Tunable White version of the dimmable LLE FLEX module covers all colour temperatures between 2,700 and 6,500 Kelvin. As it can be cut every 7.5 centimetres, it also offers a high degree of flexibility in terms of design. This is complemented by excellent homogeneity, which is due in particular to the small pitch distances. The very good colour rendering of CRI 90 ensures that colours and materials appear absolutely authentic. Thanks to the reel2reel production process, the LED strip does not require any solder joints. With the self-adhesive tape on the back, the module can be attached to different surfaces without much effort.

At a glance:

### Module LLE FLEX 24 V Tunable White PRE

- Flexible 24 V constant-voltage LED strip
- Efficiency up to 126 lm/W
- Module size: 8 x 5,000 mm
- Colour temperature: Tunable White (2,700 to 6,500 Kelvin)
- Luminous flux: 2,595 lm/m
- Manufactured in Austria using the reel2reel process
- Service life up to 72,000 hours

Module LLE FLEX 24 V TW PRE



### Module LLE FLEX 24 V TW PRE

| Type                                       | Colour-temperature (K) | Mac Adam | Expected luminous flux at tp = 65 °C | CRI  | Power consumption Pon at tp = 25 °C | Luminous efficacy of module tp = 65 °C (lm/W) | Order No. |
|--|------------------------|----------|--------------------------------------|------|-------------------------------------|---|-----------|
| <b>LLE FLEX 1,300 lm/m (WW)</b>            |                        |          |                                      |      |                                     |   |           |
| LLE FLEX 8x5,000 1300lm/m 927-965 PRE      | 2,700                  | SDCM 3   | 260                                  | > 90 | 3.2                                 | 90  | 28004204  |
| <b>LLE FLEX 1,300 lm/m (CW)</b>            |                        |          |                                      |      |                                     |   |           |
| LLE FLEX 8x5,000 1300lm/m 927-965 PRE      | 6,500                  | SDCM 3   | 285                                  | > 90 | 3.2                                 | 101   |           |
| <b>LLE FLEX 2,000 lm/m (WW)</b>            |                        |          |                                      |      |                                     |   |           |
| LLE FLEX 8x5,000 2000lm/m 927-965 PRE      | 2,700                  | SDCM 3   | 402                                  | > 90 | 5.0                                 | 89  | 28004205  |
| <b>LLE FLEX 2,000 lm/m (CW)</b>            |                        |          |                                      |      |                                     |   |           |
| LLE FLEX 8x5,000 2000lm/m 927-965 PRE      | 6,500                  | SDCM 3   | 448                                  | > 90 | 5.0                                 | 100   |           |
| <b>LLE FLEX 3,000 lm/m (WW)</b>            |                        |          |                                      |      |                                     |   |           |
| LLE FLEX 8x5,000 3000lm/m 927-965 PRE (WW) | 2,700                  | SDCM 3   | 650                                  | > 90 | 8.1                                 | 86  | 28004206  |
| <b>LLE FLEX 3,000 lm/m (CW)</b>            |                        |          |                                      |      |                                     |   |           |
| LLE FLEX 8x5,000 3000lm/m 927-965 PRE (CW) | 6,500                  | SDCM 3   | 725                                  | > 90 | 8.1                                 | 98  |           |

<sup>1)</sup> Tolerance of useful light flux - 0 % / + 20 %; Measurement uncertainty + 10 %; Values given for 52.5 cm LLE FLEX  
<sup>2)</sup> Tolerance of power consumption Pon + 15 %; Measurement uncertainty + 5 %; Values given for 52.5 cm LLE FLEX

## Hassle-free wireless

# The intuitive path towards wireless luminaire communication



**The Casambi Ready basicDIM Wireless control technology allows versatile and professional interaction with all luminaires within an area – fully intuitive and with no additional wiring required.**

The basis for the wireless light management is found in the luminaire with the LED module, a 24 V constant voltage or DALI driver and one of the basicDIM Wireless modules. The control profiles are saved during the luminaire production stage. Users can choose whether to control the lighting using the 4remote BT App or via the user interface.

Up to 250 light points can be conveniently controlled via Bluetooth: switching on and off as well as dimming functions are just as simple as grouping luminaires and creating lighting settings. Tunable White luminaires change their colour temperature to suit the user and the direct and indirect light content are simple to adjust. All the elements for integrating sensors are also in place.

### Solution with 24 V constant current driver

The user communicates via 4remote BT app or user interface with the basicDIM wireless modules, which passes the information via the constant voltage 24 V drivers to the LED module.



At a glance:

#### **basicDIM Wireless Modul PMW constant voltage (CV) 4CH**

- Can be combined with 24 V constant voltage drivers and applications
- Input voltage: 12 – 24 V
- Up to 4 LLE FLEX tapes together
- FCC and UL listed version available

### Easy-to-dim LLE FLEX continuous row

The constant voltage (CV) basicDIM Wireless module is the ideal solution when you want to add a dimming function to existing accent lighting consisting of LED light lines without undertaking structural measures. Combined with non-dimmable 24 V CV drivers, an individual control module can dim up to four LLE FLEX module strips.

### Solution with basicDIM Wireless integrated 24 V constant current driver

Thanks to the premium (PRE) driver series with integrated basicDIM Wireless technology, luminaires can be constructed with even greater ease.



At a glance:

#### **basicDIM Wireless driver constant voltage PRE (CV)**

- Dimmable 24 V constant voltage LED driver for flexible constant voltage strips
- Small design with stretched-compact strain relief
- basicDIM Wireless enables different dimming options 1 to 100 %
- Nominal life-time up to 50,000 h, 5-year guarantee

### The advantages of drivers with integrated basicDIM Wireless technology

With premium (PRE) series drivers, just one device needs to be installed for each luminaire, saving a huge amount of space. Since no additional wiring is required, costs are reduced significantly, too.

## System solution

# The perfect 24 V system solution for flexible lighting strips

LCA 35 W/60 W/100 W/150 W  
24V one4all SC PRE

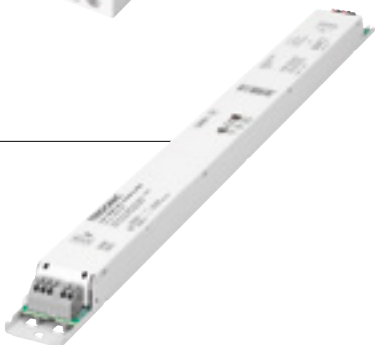


At a glance:

### LCU 35-180W 24V EXC

- Constant-voltage LED driver 24 V
- Wide input voltage range (108-305 V)
- Not dimmable
- Small cross-section for a wide range of applications
- Long lifetime of up to 50,000 hours
- 5-year guarantee

LCA 100W 24V  
one4all Ip PRE

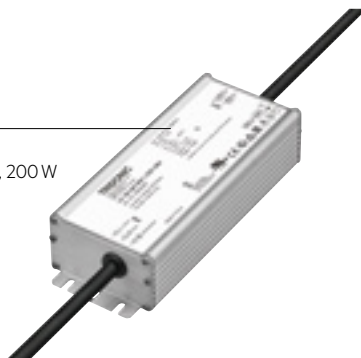


At a glance:

### LCA 35 W/60 W/100 W/150 W 24V one4all SC PRE

- Constant-voltage LED driver 24 V
- Dimming via one4all (DALI DT 6, DSI, switchDIM, corridorFUNCTION) and ready2mains interface
- Stretched Compact housing with strain relief to pin
- Type of protection IP20
- Long lifetime of up to 50,000 hours
- 5-year guarantee

LC 24 V IP67  
35 W, 75 W, 100 W, 200 W

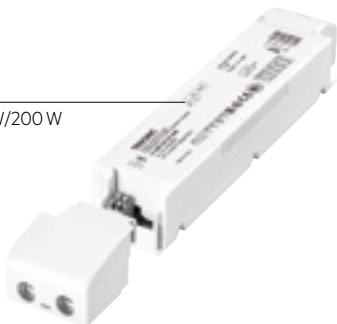


At a glance:

### LC 24 V IP67 EXC

- 24 V constant current driver for rooms at risk of humidity
- rooms and outdoor areas
- Cast metal housing with cable for primary and secondary side
- Universal voltage: 90-305 V
- Efficiency up to 90 %
- IP-protected

LC 35 W /60 W/100 W/200 W  
24V SC SNC

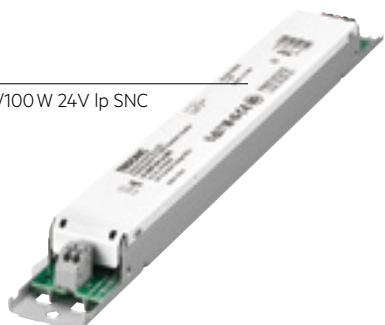


At a glance:

### LC 35 W/60 W/100 W/200 W SC SNC

- Constant-voltage LED driver 24 V
- Dimmable via PWM LED dimmers
- Dimmable by means of bDW CW modules
- Stretched Compact housing with strain relief to pin
- Type of protection IP20
- Meets the IEC 60335-1 safety standard for household appliances
- Long lifetime of up to 50,000 hours
- 5-year guarantee

LC 35 W/60 W/100 W 24V Ip SNC



At a glance:

### LC 35 W/60 W/100 W 24V Ip SNC

- Constant-voltage LED driver 24 V
- Dimmable via PWM LED dimmers
- Dimmable bDW CW Module
- Slim Linear low profile form-factor
- Type of protection IP20
- Long lifetime of up to 50,000 hours
- 5-year guarantee

# System solution

The perfect 24 V system solution for flexible lighting strips



**At a glance:**

**LC 60 W / 100 W 24V (0-10V) Ip SNC UNV**

- Constant voltage LED driver
- Universal input voltage range
- Class 2
- Type HL
- UL Listed Class P
- FCC Part 15
- Max. output power 60 W + 100 W
- Dimmable via 0 ... 10 V (incl. stand-by)
- Nominal life-time up to 50,000 h (at ta 45 °C)
- 5-year guarantee

**Order information basicDIM Wireless**

| Type                                   | Order No. |
|--|-----------|
| basicDIM Wireless PWM CV 4CH           | 28002575  |
| basicDIM Wireless User Interface       | 28002213  |
| basicDIM Wireless User Interface white | 28002420  |

**Matching LED driver**

| LED driver                                 | Order No. |
|--|-----------|
| <b>Driver dimmable</b>                     |           |
| LCA 18W 24V one4all Ip PRE                 | 28003519  |
| LCA 18W 24V one4all SR PRE                 | 28003517  |
| LCA 18W 24V one4all SR PRE SP              | 28003518  |
| LCA 35W 24V one4all Ip PRE                 | 28003520  |
| LCA 35W 24V one4all SC PRE                 | 28001662  |
| LCA 60W 24V one4all Ip PRE                 | 28003521  |
| LCA 60W 24V one4all SC PRE                 | 28001663  |
| LCA 100W 24V one4all SC PRE                | 28001253  |
| LCA 150W 24V one4all SC PRE                | 28001437  |
| LCA 100W 24V one4all Ip PRE                | 28001436  |
| <b>Driver basicDIM Wireless integrated</b> |           |
| LC 35/24V bDW SC PRE2                      | 28002415  |
| LC 60/24V bDW SC PRE2                      | 28002416  |
| LC 100/24V bDW SC PRE2                     | 28002417  |
| LC 150/24V bDW SC PRE2                     | 28002418  |
| <b>Driver non-dimmable</b>                 |           |
| LC 18W 24V SR SNC                          | 87500931  |
| LC 18W 24V SR SNC SP                       | 87500932  |
| LC 18W 24V Ip SNC                          | 87500938  |
| LC 35W 24V SC SNC                          | 87500852  |
| LC 35W 24V Ip SNC                          | 87500854  |
| LC 60W 24V SC SNC                          | 87500665  |
| LC 60W 24V Ip SNC                          | 87500669  |
| LC 100W 24V SC SNC                         | 87500666  |
| LC 100W 24V Ip SNC                         | 87500670  |
| LC 200W 24V SC SNC                         | 87500855  |

## Perfect system solutions

### 48 V system solutions for flexible 48 V LED strips



LC 35W 48V one4all NF SC EXC

At a glance:

#### **LC 35W/60W/100W 48V one4all NF SC EXC**

- Dimmable, DALI-2 certified driver with 48 V constant voltage
- lumDATA (luminaire data, energy report, diagnosis and maintenance)
- Can be used as luminaire recessed or independent LED driver with snap-on strain relief
- Dimming range: 1–100
- one4all interface ((DALI-2, DSI, switchDIM, corridorFUNCTION)
- fade2zero function
- Simple configuration via NFC interface



LC 60W 48V one4all NF Ip EXC

At a glance:

#### **LC 60W/100W 48V one4all NF Ip EXC**

- Dimmable, DALI-2 certified driver with 48 V constant voltage
- lumDATA (luminaire data, energy report, diagnosis and maintenance)
- Slim low-profile housing
- Dimming range: 1–100
- one4all interface ( DALI-2, DSI, switchDIM, corridorFUNCTION)
- fade2zero function
- Simple configuration via NFC interface



LC 35W 48V one4all NF h16 EXC

At a glance:

#### **Driver LC 35W 48V one4all NF h16 EXC**

- Dimmable, DALI-2 certified driver with 48 V constant voltage
- lumDATA (luminaire data, energy report, diagnosis and maintenance)
- Slim housing with a height of only 16 mm
- Dimming range: 1–100
- one4all interface ( DALI-2, DSI, switchDIM, corridorFUNCTION)
- fade2zero function
- Simple configuration via NFC interface

# excite (EXC), 48 volt

## Even longer solutions with constant luminous flux

Compared to the 24-volt version of LLE FLEX excite (EXC), the LED light strip with 48-volt constant voltage enables twice as long lighting solutions with a consistently high luminous flux. The 48-volt version is therefore particularly advantageous when

larger distances are to be illuminated. In this case, the flexible light strip not only provides optimal light, but at the same time reduces installation and wiring effort.



LLE FLEX 8x5000 EXC

At a glance:

### LLE FLEX 48 V excite

- Dimmable 48 V constant voltage LED strip for use on aluminium profiles and decorative lighting such as cove or accent lighting
- 10 meter reel with 6,25cm cut option for high freedom of design
- Module efficiency up to 163 lm/W
- Colour rendering: CRI > 80 and CRI > 90 (on demand)
- Self-adhesive 3M tape on the back for easy mounting on different surfaces
- Manufactured in Austria using the reel2reel process

|                   |                     |           |                 |
|-------------------|---------------------|-----------|-----------------|
| Guarantee 5 years | Lifetime 60.000 hrs | MacAdam 3 | Made in Austria |
|-------------------|---------------------|-----------|-----------------|

### Overview LLE FLEX 48 V EXC

| Type                                  | Colour-temperature (K) | Mac Adam | Typ, luminous flux tp = 65 °C <sup>0</sup> (lm/m) | CRI  | Typ, power consumption tp = 65 °C <sup>0</sup> (W/m) | Luminous efficacy of module tp = 65 °C (lm/W) | Order No. |
|---------------------------------------|------------------------|----------|---|------|--|---|-----------|
| LLE FLEX 8R10 48V 5W-600lm 827 EXC    | 2,700                  | SDCM 3   | 610   | > 80 | 4.5  | 136   | 28003881  |
| LLE FLEX 8R10 48V 5W-600lm 830 EXC    | 3,000                  | SDCM 3   | 625   | > 80 | 4.5  | 140   | 28003882  |
| LLE FLEX 8R10 48V 5W-600lm 840 EXC    | 4,000                  | SDCM 3   | 580   | > 80 | 4.0  | 146   | 28003883  |
| LLE FLEX 8R10 48V 5W-600lm 865 EXC    | 6,500                  | SDCM 3   | 580   | > 80 | 4.0  | 146   | 28003884  |
| LLE FLEX 8R10 48V 9W-1200lm 827 EXC   | 2,700                  | SDCM 3   | 1,240   | > 80 | 8.9  | 139   | 28003885  |
| LLE FLEX 8R10 48V 9W-1200lm 830 EXC   | 3,000                  | SDCM 3   | 1,280   | > 80 | 8.9  | 144   | 28003886  |
| LLE FLEX 8R10 48V 9W-1200lm 840 EXC   | 4,000                  | SDCM 3   | 1,210   | > 80 | 8.1  | 150   | 28003887  |
| LLE FLEX 8R10 48V 9W-1200lm 865 EXC   | 6,500                  | SDCM 3   | 1,210   | > 80 | 8.1  | 150   | 28003888  |
| LLE FLEX 8R10 48V 13W-1800lm 827 EXC  | 2,700                  | SDCM 3   | 1,840   | > 80 | 13.1   | 141   | 28003889  |
| LLE FLEX 8R10 48V 13W-1800lm 830EXC   | 3,000                  | SDCM 3   | 1,900   | > 80 | 13.1   | 145   | 28003890  |
| LLE FLEX 8R10 48V 13W-1800lm 840EXC   | 4,000                  | SDCM 3   | 1,800   | > 80 | 11.9   | 151   | 28003891  |
| LLE FLEX 8R10 48V 13W-1800lm 865EXC   | 6,500                  | SDCM 3   | 1,800   | > 80 | 11.9   | 151   | 28003892  |
| LLE FLEX 8R10 48V 18W-2500lm 827 EXC  | 2,700                  | SDCM 3   | 2,540   | > 80 | 18.0   | 141   | 28003893  |
| LLE FLEX 8R10 48V 18W-2500lm 830 EXC  | 3,000                  | SDCM 3   | 2,620   | > 80 | 18.0   | 146   | 28003894  |
| LLE FLEX 8R10 48V 18W-2500lm 840 EXC  | 4,000                  | SDCM 3   | 2,520   | > 80 | 16.5   | 152   | 28003895  |
| LLE FLEX 8R10 48V 18W-2500lm 865 EXC  | 6,500                  | SDCM 3   | 2,520   | > 80 | 16.5   | 152   | 28003896  |
| LLE FLEX 12R10 48V 22W-3000lm 827 EXC | 2,700                  | SDCM 3   | 3,030   | > 80 | 21.6   | 140   | 28003897  |
| LLE FLEX 12R10 48V 22W-3000lm 830 EXC | 3,000                  | SDCM 3   | 3,120   | > 80 | 21.6   | 145   | 28003898  |
| LLE FLEX 12R10 48V 22W-3000lm 840 EXC | 4,000                  | SDCM 3   | 3,080   | > 80 | 20.4   | 151   | 28003899  |
| LLE FLEX 12R10 48V 22W-3000lm 865 EXC | 6,500                  | SDCM 3   | 3,080   | > 80 | 20.4   | 151   | 28003900  |
| LLE FLEX 12R10 48V 28W-4000lm 827 EXC | 2,700                  | SDCM 3   | 4,020   | > 80 | 28.7   | 140   | 28003901  |
| LLE FLEX 12R10 48V 28W-4000lm 830 EXC | 3,000                  | SDCM 3   | 4,140   | > 80 | 28.7   | 145   | 28003902  |
| LLE FLEX 12R10 48V 28W-4000lm 840 EXC | 4,000                  | SDCM 3   | 4,150   | > 80 | 26.5   | 156   | 28003903  |
| LLE FLEX 12R10 48V 28W-4000lm 865 EXC | 6,500                  | SDCM 3   | 4,000   | > 80 | 26.5   | 151   | 28003904  |

\* CRI90 articles on demand



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