

Issue 2017

Highlights and new products

TRIDONIC



Content

	4
Maximum safety from a single box EM ready2apply safety lighting	
	6
Driver with adjustable output currents Driver flexC ADV	
	7
Homogeneous linear lighting Module LLE G2 24 mm ESSENCE (SNC) Engine LLE AC G1 24 mm ESSENCE (SNC)	
	8
Retail and Hospitality Module CLE G3 ADVANCED (ADV) Module CLE G1 ESSENCE (SNC) Module SLE G1 SUNSET EXCITE (EXC) Module LLE FLEX G1 ESSENCE (SNC) Driver 24 V constant voltage ESSENCE (SNC)	
	10
Industry Driver 200 W universal voltage INDUSTRY ADVANCED (ADV)	

As varied as everyday life itself

As a major factor in our everyday lives, light has to be efficient, reliable, individually adjustable and easy to use. Tridonic meets these requirements with versatile solutions, flexible components and clever installation concepts. For example, new flexC ADV drivers with preset output currents not only guarantee a wide range of possible applications but also reduce warehousing costs. As the first linear module with integrated electronics, LLE AC paves the way for straightforward modernisation of conventional lighting systems. Tridonic crosses a milestone in emergency lighting. Now, all that is needed for safety lighting to cover its many requirements is a single box – flexible, energy-optimised and absolutely reliable.

Read all details about our project Schallberg tunnel, Switzerland on page 11.

For further reference stories go to www.tridonic.com/references

11	Tridonic systems in use Schallberg tunnel, Switzerland
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Maximum safety from a single box

EM ready2apply safety lighting

All the components for emergency lighting combined in a single luminaire



As an expert in emergency lighting, Tridonic is setting another milestone – a safety luminaire that combines all its specialist know-how and technologies. Its flexible circuit technology enables a complete solution to be integrated in an extremely compact housing. The combination of three interchangeable optics and an energy-optimised lithium iron phosphate battery results in a high-quality product which provides all the components for safety lighting in a single box. Another benefit is the clever concept for quick and convenient installation.

At a glance: Engine EM ready2apply

- Luminaire, battery and optics in a single box
- Interchangeable optics for maximum flexibility
- Battery with unique connection system

Highly flexible

The three tiers (BASIC, SELFTTEST and PRO) can be combined with an operating time of one, two or three hours (two hours only for PRO). EM ready2apply also comes in variants for both maintained and non-maintained operation.



New: Engine EM ready2apply

The right optics for any situation

Three interchangeable optics are available with every box. EM ready2apply is, therefore, ideally equipped for anti-panic lighting, illuminating escape routes and high risk areas with the spot lens. The optics can be easily changed with just a click.



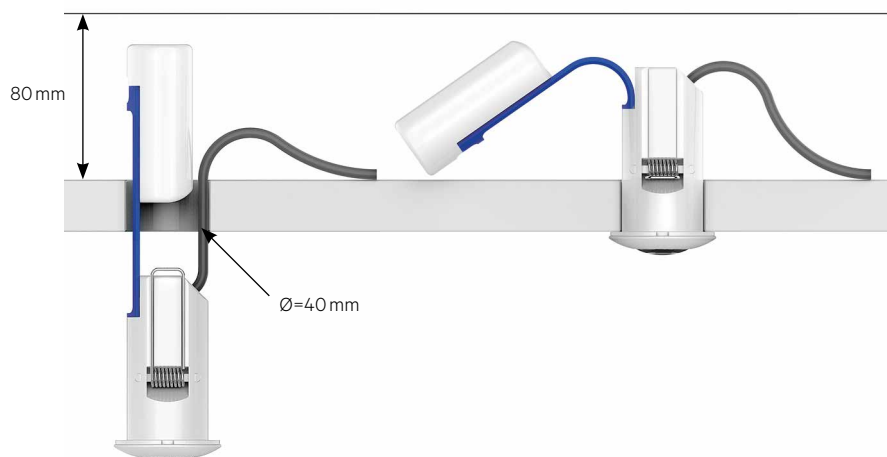
Efficient battery for optimum reliability

The new lithium iron phosphate battery (LiFePO_4) gives the EM ready2apply luminaire a long life of eight years, keeping maintenance costs to a minimum. Thanks to very low standby losses, energy consumption is correspondingly low. The safety of the battery has been extensively tested alongside external independent specialists. The result is an extremely reliable solution which is ideally protected against operation in excessive temperatures. The battery also comes with an impressive three year guarantee and a unique push-click-connection which makes installation quick and simple.



Installation in just a few easy steps

Thanks to a clever installation concept, in which even the packaging provides a useful installation guide, the EM ready2apply can be installed in just a few easy steps. The space saving housing with the integrated driver just needs a few centimetres for the mounting depth and diameter.

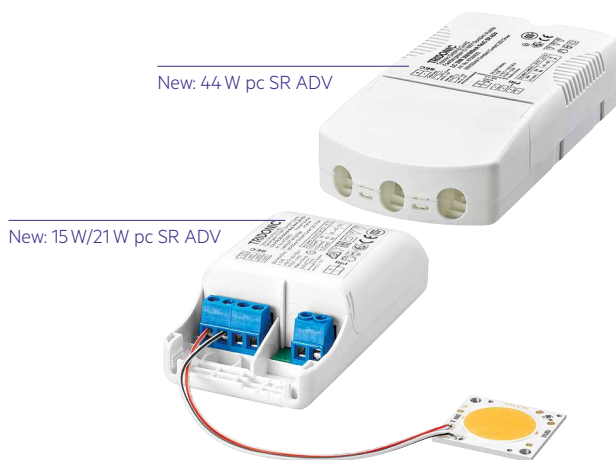


Drivers with adjustable output currents

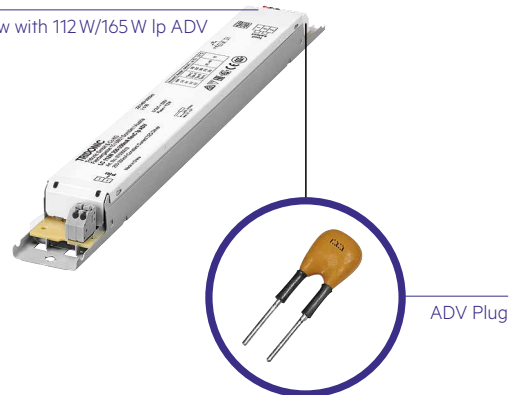
Driver flexC ADV

An innovative series for a wide variety of applications

The fact that the output currents can be set as required – via I-Select II plugs or the deviceCONFIGURATOR software – is one of the many advantages of the EXCITE and PREMIUM drivers. Tridonic has gone one stage further with the flexC products that are now available in the ADVANCED category. Available in Strain Relief (SR) – either with or without phase-cut – and Linear Low Profile (lp) versions with nine wattages, the drivers offer a selection of preset output currents that can be defined at the factory.



New with 112 W/165 W lp ADV



At a glance: Driver flexC phase-cut SR ADV

- Selectable output currents by means of Terminal select
- Dimmable from 100 to 5% with leading-edge and trailing-edge dimmers
- Strain relief and compact housing

One driver for different modules

The latest generation of ADVANCED phase-cut LED drivers provides, for the first time, the option of selecting different output currents via Terminal select. Combined with an extended voltage range, all the driver versions are suitable for both COB and SMD light sources, which effectively reduces warehousing costs.

At a glance: Driver flexC lp ADV

- Selectable output currents via ADV Plug
- Additional high wattages for optimum versatility
- Replacement for 2 x 80 W drivers in supermarket luminaires
- $\pm 5\%$ ripple current for high quality of light

High wattages and linear design

New high-performance drivers supplement the existing linear ADV flexC SELV and non-SELV drivers. The requirements for an output voltage of 300 V are therefore also ideally covered. ADV Plug enables five different output currents to be selected. Different modules can therefore be operated with a single driver.

New: 35 W/42 W/60 W SR ADV



At a glance: Driver flexC SR ADV

- Selection of output currents
- Strain relief and through-wiring, no tools needed
- $\pm 5\%$ ripple current for high quality of light

Minimal effort thanks to through-wiring

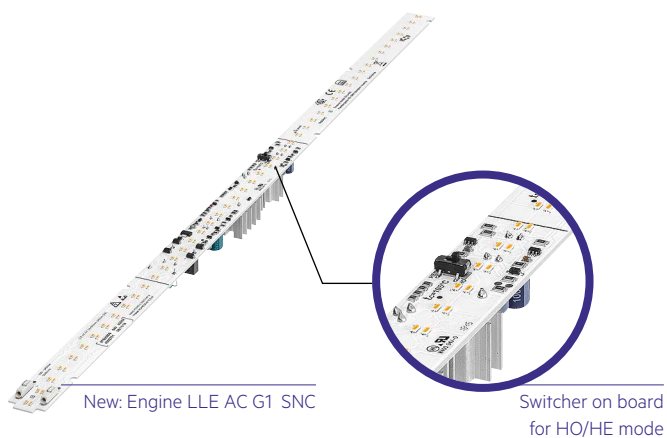
Different output currents are available depending on the requirement. For the 20 W drivers the output current is set via Terminal select, for all others via ADV Plug. Another benefit here is the through-wiring which significantly reduces installation time and effort.

Homogeneous linear lighting

Engine and module LLE SNC

Easy retrofit solution for extra efficiency

LLE modules are designed for homogeneous, high-efficiency linear luminaires. They are available in different lengths and widths and the clever arrangement of the light points ensures a pleasant effect with excellent homogeneity. This highly efficient system is complemented by a range of appropriate LED drivers, available in various versions.



At a glance: Engine LLE AC G1 SNC

- Integrated AC solution for linear luminaires
- 3 lengths with 3 lumen packages (2,400 lm, 4,800 lm and 6,200 lm)
- Light colours: 3,000 K, 4,000 K and 6,500 K at CRI 80

Easiest conversion for T8 and T5 lamps to LED

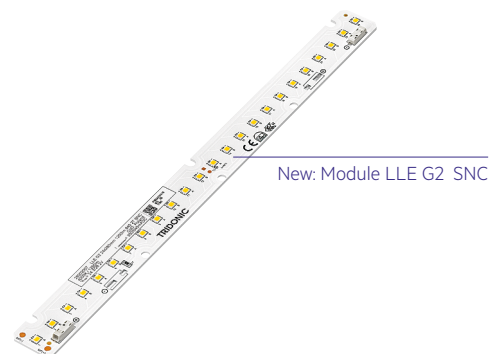
As the first linear modules with integrated electronics, the LLE AC product family is the simple solution for modernising lighting systems. With a choice of different lumen packages they are the ideal replacements for conventional T8 and T5 fluorescent lamps, complete with terminals for quick and easy wiring. The result is optimised illumination with a system efficiency up to 130 lm/w and reduced energy costs. The combination of three lengths and the extremely narrow design gives designers enormous freedom.

At a glance: Module LLE G2 SNC

- Optimised efficiency of up to 150 lm/W
- Two lumen packages (650 lm/ft upgrade to 775 lm/ft and 1,250 lm/ft)
- SELV modules

Greater output at an attractive price

Equipped with two or four terminals, the second improved generation of LLE SNC modules offers a reliable and cost-effective solution for linear luminaires.



Retail and Hospitality

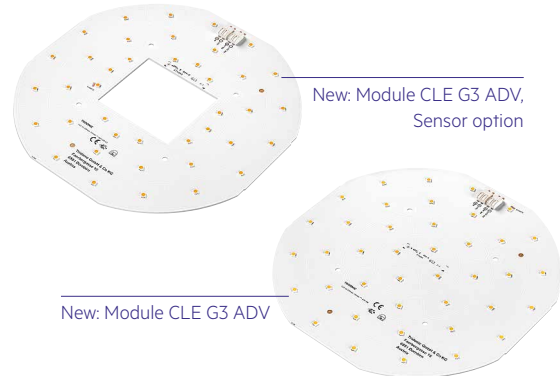
New products

At a glance: Module CLE G3 ADV

- Efficiency increased by 20% to 181 lm/W
- Diameters: 160 mm, 190 mm, 220 mm and 315 mm
- Zhaga compliant fixing holes

High energy efficiency for demanding tasks

Increased efficiency and a wide range of options – Thanks to the 20% increased efficiency, the third generation CLE ADVANCED achieves a luminous efficacy of up to 181 lm/W. The new generation is keeping the advantage of the current system solution with the EM power LED emergency COMBO device and central opening of the module if a sensor is used. All the different lumen packages available (1,500, 3,000 and 4,000 lm) can be combined with Tridonic drivers which enable the CLE ADV generation 3 as a perfect option for wall and ceiling mounted luminaries solution. All sizes have Zhaga certified fixing holes.



At a glance: Module CLE G1 SNC

- Module sizes: 50 mm, 80 mm, 120 mm, 160 mm and 315 mm
- Effective cost savings from combination with appropriate SNC drivers
- Wide selection of lumen packages: 1,000 lm, 2,000 lm, 2,500 lm, 3,000 lm and 4,000 lm

High-performance modules for downlights

Combined with the ESSENCE drivers, the new ESSENCE version of this popular product series is a cost-effective system solution for downlights and bulkheads. The modules offer homogeneous light, making them ideal for illuminating corridors and ancillary rooms. Five lumen packages and different module sizes provide a high degree of flexibility.

Retail and Hospitality

New products

At a glance: Module SLE G1 SUNSET EXC

- Same dimming behaviour as an incandescent light bulb
- Zhaga compliant housing available

SUNSET – for special moods

The unique SLE SUNSET EXCITE module is ideal for creating special moods. Dimming changes the intensity of the light and its colour temperature, as with a real sunset, creating an atmospheric effect similar to that provided by an ordinary light bulb. The pleasant warm light, dimmable from 2,700 K to 1,800 K, creates an atmosphere similar to that of candlelight – and with excellent colour consistency.



New light colour SUNSET
2,700 K – 1,800 K



New: Driver
60 W Ip SNC



New: Driver
60 W SC SNC



New: Driver
100 W Ip SNC



New: Driver
100 W SC SNC

At a glance: Driver 24 V Constant Voltage SNC

- For luminaire installation (Ip) or ceiling installation (SC)
- Energy efficiency of up to 90%

Functional constant voltage LED drivers

Constant voltage drivers in the ESSENCE category offer a very good price/performance ratio in non-dimming applications – particularly in combination with the new LLE FLEX SNC modules. In addition to high energy efficiency, the drivers feature a narrow, space-saving housing available in Stretch Compact or Linear Low Profile versions.

At a glance: Module LLE FLEX G1 SNC

- Can be trimmed every 50 mm
- Spectrum of colour temperatures: 2,700 K, 3,000 K, 4,000 K

Flexible light at an unbeatable price

The new ESSENCE version with its excellent price/performance ratio completes the LLE FLEX portfolio. The flexible strip light is a cost-effective solution with up to 1,800 lm/ft, which meets current requirements in terms of the quality of light. As far as freedom of design is concerned, the ESSENCE modules are a match for the ADVANCED and EXCITE versions. They are suitable for general illumination, cove lighting and aluminium profiles.



New: Module LLE FLEX G1 SNC

Industry

Drivers and modules for demanding environments

Reliable light for every need

Industrial environments place special requirements on lighting systems. High ceilings, challenging environments and harsh atmospheres place huge burdens on lighting systems and maintenance is often associated with high costs. For industrial applications, Tridonic combines the benefits of the indoor segment with those of outdoor products. This results in LED solutions with high efficiency, low standby losses, increased dielectric strength for extended temperature ranges and a life of 100,000 hours.

New: Driver 200 W
UNV Ip ADV



At a glance: Driver 200 W UNV INDUSTRY ADV

- High durability with type of protection IP67
- Wide voltage range from 120 V to 277 V
- Most efficient operation of CLE and QLE industry modules
- 0–10 V dimming

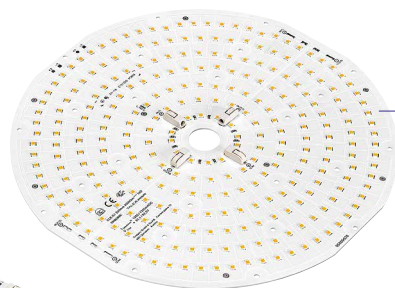
Dimmable universal-voltage constant-current driver

A new addition to the portfolio is the universal voltage driver – the ideal complement for the CLE and QLE industry modules with high luminous efficacy. Type of protection IP67 enables the fully encapsulated driver to be installed in harsh environments outside of the luminaire. In addition to water, steam and dryness it can withstand extreme temperatures of -40°C to $+60^{\circ}\text{C}$.

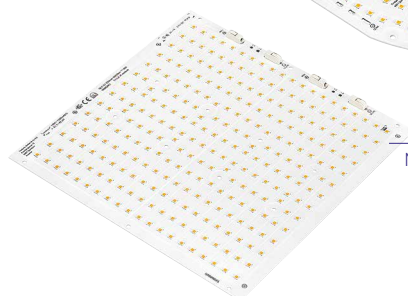
Modules for diffuse hall lighting

The robust, high-performance QLE and CLE industry modules for round and square luminaires provide homogeneous light even in large halls. Combined with the new 200 W industry driver they offer a reliable solution for industrial lighting.

Module CLE G1 ADV IND

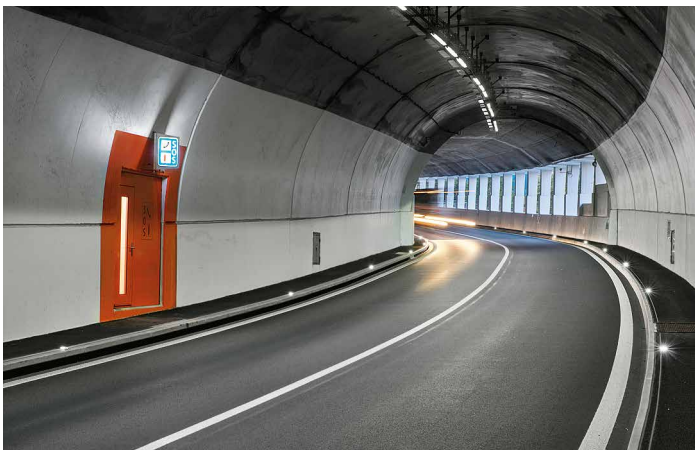
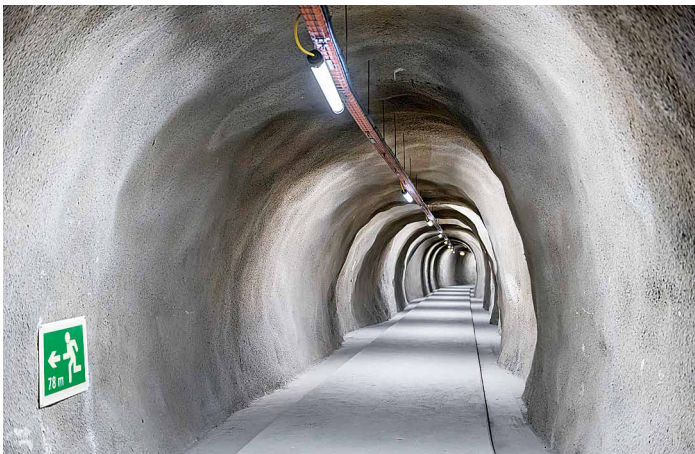


Module QLE G1 ADV IND



Tridonic systems in use

Schallberg tunnel, Switzerland



Following its general renovation, the 500 m long Schallberg tunnel can be seen in a new light. The luminaires were developed by the Swiss tunnel lighting specialists Rigamonti and equipped with LED components from Tridonic. The result is high-performance lighting system that offers an unprecedented of visual comfort and has a positive effect on overall feeling of safety among vehicle drivers.

The Schallberg tunnel with its new lighting is now bright and inviting. A total of 100 transition zone luminaires and 150 interior zone luminaires from Swiss tunnel lighting specialist Rigamonti, in combination with the white reflective tunnel walls, create a pleasant atmosphere. The “inner workings” of the luminaires come from Tridonic and the emergency lights on the walls, the escape route lights, the escape route indicators and the escape exit signs are all equipped with LED components from Tridonic.

Tridonic products used

- Module LLE EXCITE
- Module RLE outdoor
- Driver PREMIUM outdoor

Close light

We attach great importance to a strong international presence – this allows us to stay sufficiently close to our customers

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Light you want to follow.

