LED driver, LED module and Controls

Spot and Downlights
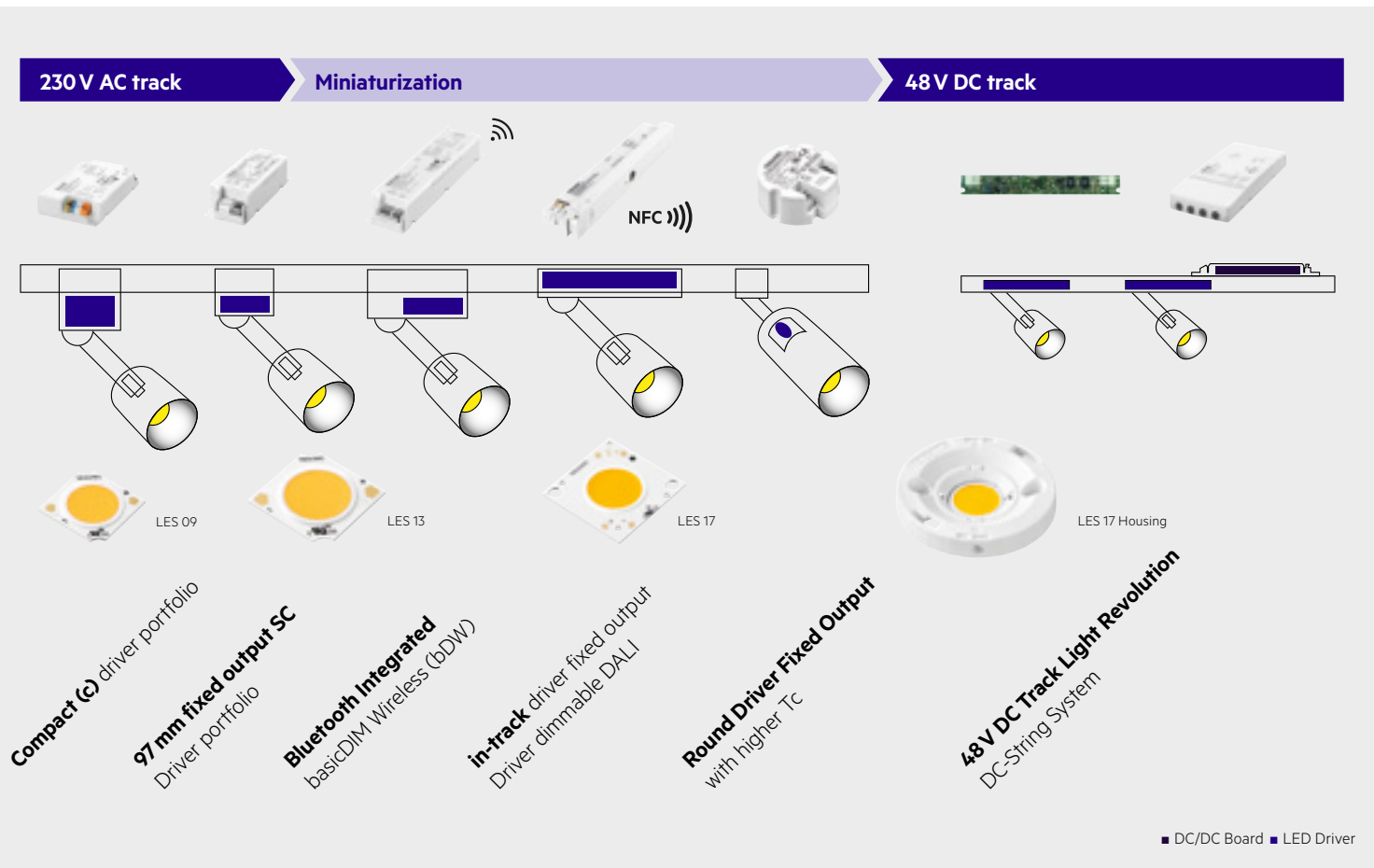## Miniaturisation that puts light centre stage

TRIDONIC

Minimalist track lights – focus on the essentials
More space for architecture, lighting effects and design

| 230 V AC track | Miniaturization | | | | 48 V DC track |

NFC)))

LES 09   LES 13   LES 17   LES 17 Housing

Compact (c) driver portfolio

97 mm fixed output SC Driver portfolio

Bluetooth Integrated basicDIM Wireless (bDW)

in-track driver fixed output Driver dimmable DALI

Round Driver Fixed Output with higher Tc

48 V DC Track Light Revolution DC-String System

■ DC/DC Board ■ LED Driver

To enable architecture and lighting to be combined in one unit, which is both functionally and aesthetically impressive, Tridonic is consistently continuing the trend towards miniaturisation. Various driver solutions – from simple to sophisticated – reflect the complete evolution of track lighting and open up entirely new possibilities.

For a long time, spotlight design was governed by the dimensions and temperature behaviour of the LED drivers. Large trackboxes severely restricted design freedom. Tridonic's new driver solutions eliminate this problem.

Its range of drivers has been extended with the 7th generation of SLE modules, which offer even greater efficacy, improved lifetime and intelligent temperature management. This module series makes a significant contribution towards miniaturisation and, at the same time, achieves outstanding colour rendering that is second to none. Tridonic not only offers engines with perfectly coordinated modules and drivers, but also sets new benchmarks in the field of production. Software and online tools provide support during parameterisation and make individual programming of the drivers easier. These are also the first tools to demonstrate the possible functions – including wirelessly via NFC.
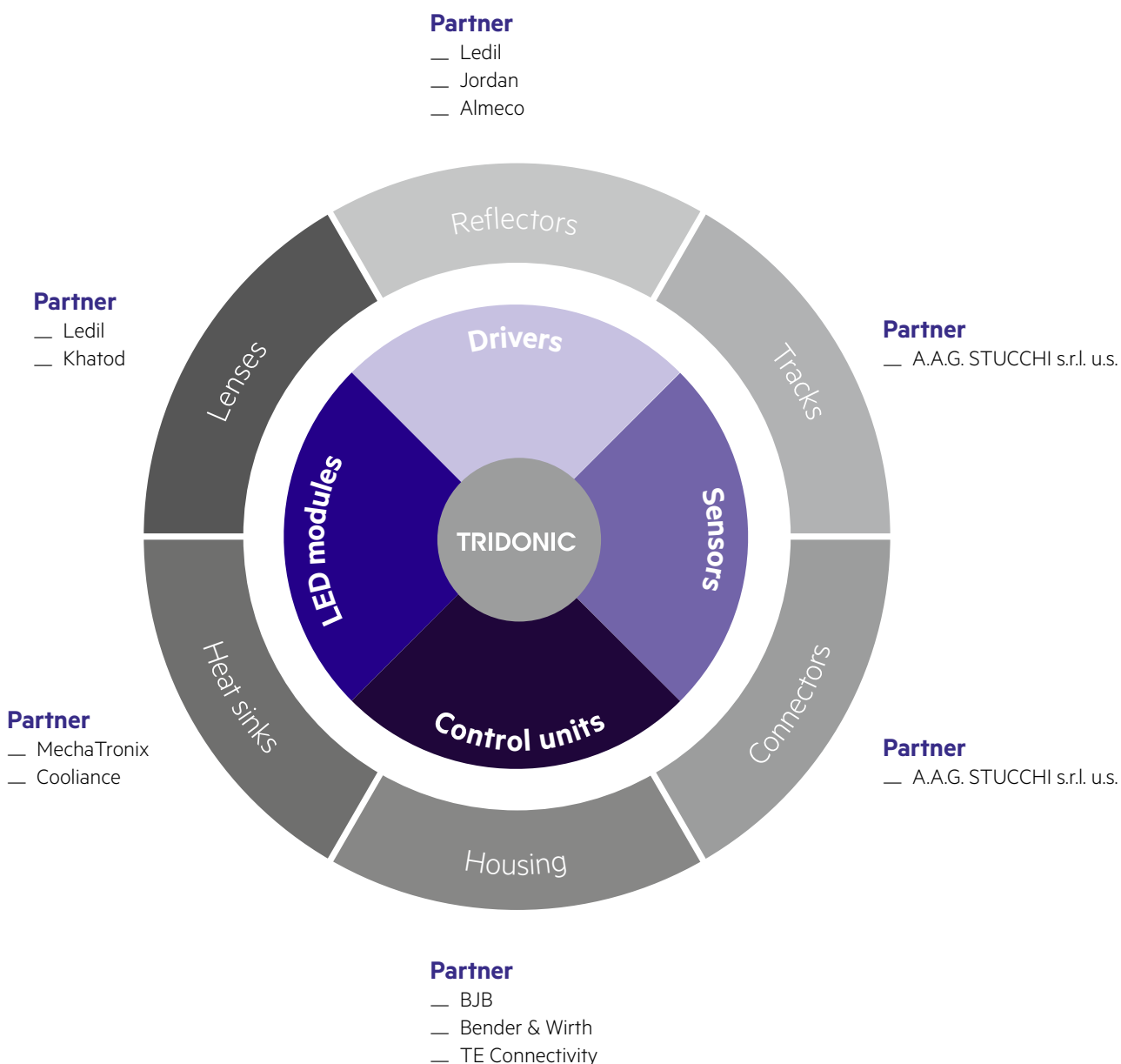
Spot and downlights

Overall supplier of LED solutions
Individually perfect and jointly complete

Tridonic drivers and modules are perfectly coordinated with each other and are supplemented with matching control units to create intelligent lighting solutions. To also make the luminaire design as simple as possible, Tridonic maintains close partnerships for a wide range of accessories and optimised components.

Partner
— Ledil
— Jordan
— Almeco

Partner
— Ledil
— Khatod

Partner
— A.A.G. STUCCHI s.r.l. u.s.

Partner
— MechaTronix
— Cooliance

Partner
— A.A.G. STUCCHI s.r.l. u.s.

Partner
— BJB
— Bender & Wirth
— TE Connectivity

Reflectors · Tracks · Connectors · Housing · Heat sinks · Lenses

Drivers · Sensors · Control units · LED modules

TRIDONIC

Tridonic Setbuilder
With Tridonic's web tool, you can find the ideal combination of LED module and driver quickly and easily. The user-friendly user interface with detailed filter system guides you through the different levels in just a few steps and allows you to calculate performance figures for the modules.
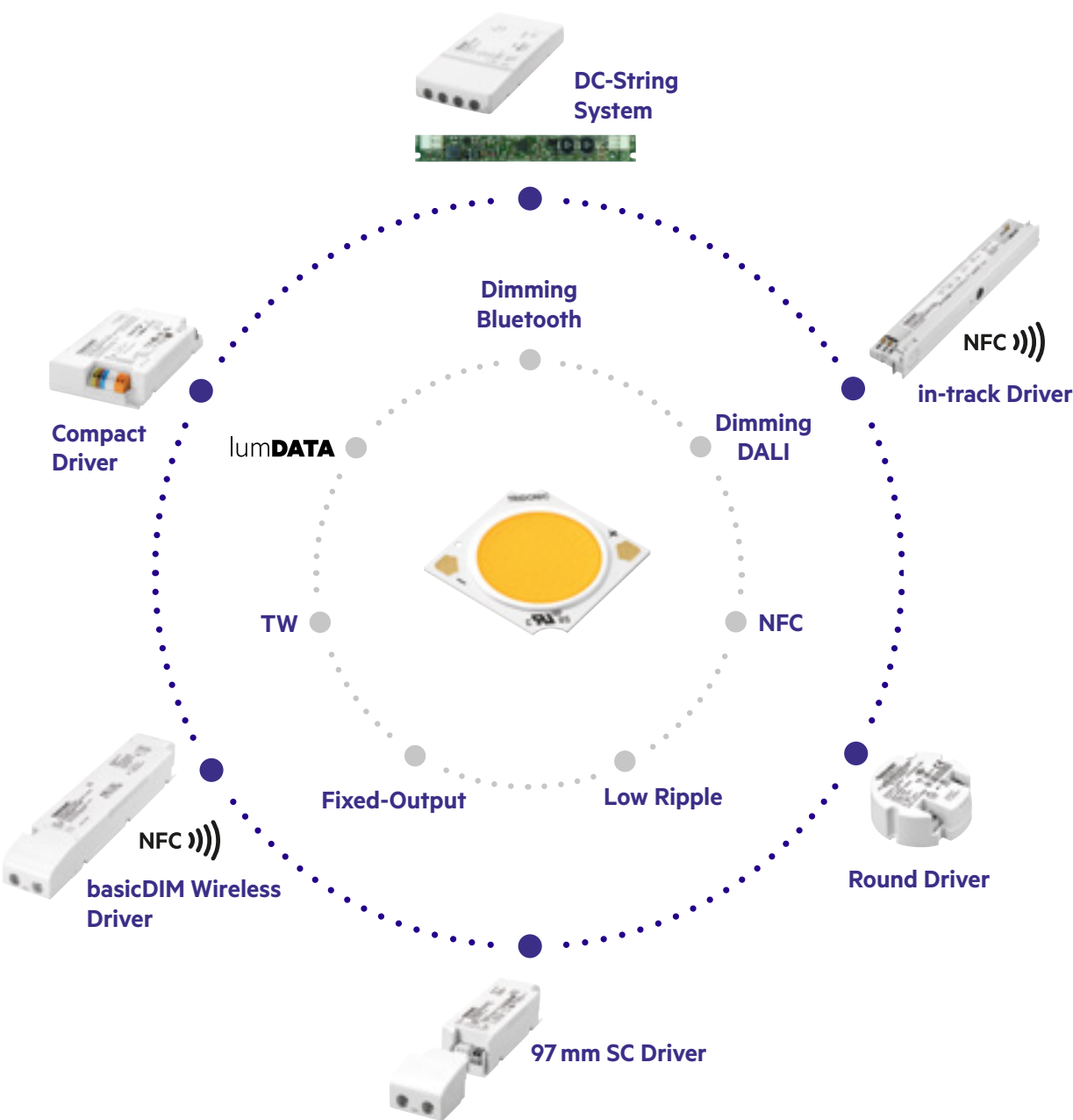
A network of possibilities
Combining size and function according to requirements

The wide range of driver solutions means it is possible to specifically influence the size of the spotlight. Thanks to small drivers with a length of just 97 millimetres, it is already possible to significantly reduce the size of trackboxes. However with in-track drivers and round drivers, it is possible to dispense with trackboxes entirely, allowing for a minimalist spotlight design. With its revolutionary DC-String solution, Tridonic goes one step further. Again, there is no need for trackboxes. Furthermore, it is possible to minimise the standard size of the 3-phase track.

DC-String System

Dimming Bluetooth

NFC))))

in-track Driver

Compact Driver

lum**DATA**

Dimming DALI

TW

NFC

Fixed-Output

Low Ripple

NFC))))

Round Driver

basicDIM Wireless Driver

97 mm SC Driver

Overview of the areas of expertise in LED modules

1 Long-standing expertise
— Experience of having delivered over 100 million LED modules
— Ongoing optimisation from one generation of modules to another makes for technology that is always state of the art

2 High-quality raw materials
— Exclusively made from raw materials of the Tridonic standards
— Only suppliers who are technological leaders in their field
— Intensive market analysis through benchmarking processes

3 Strict qualification programme
— Extensive tests of all relevant materials
— Zero-tolerance demand for the highest standards
— Advanced tests on relevant material combinations

4 State-of-the-art production methods
— Very high level of automation
— Clean room production in accordance with the strictest European standards

5 Universal product diversity
— Four value tiers to cover all of our clients' needs
— Zhaga-compliant product designs

6 Final tests well above average
— 100 percent test quota
— Exceptionally stringent testing according to criteria for processing capacity, optical characteristics and reliability

**7 Complete solutions from a single source**
— Perfectly compatible modules, drivers, sensors and control units
— Best performance of any light engine

8 Customer support
— Design-in-service
— Tridonic data sheet containing extensive information
— Support with certification

9 Commitment to science and industrial associations
— Helped to shape new norms and international standards
— Development of innovative technologies in close collaboration with leading research institutes
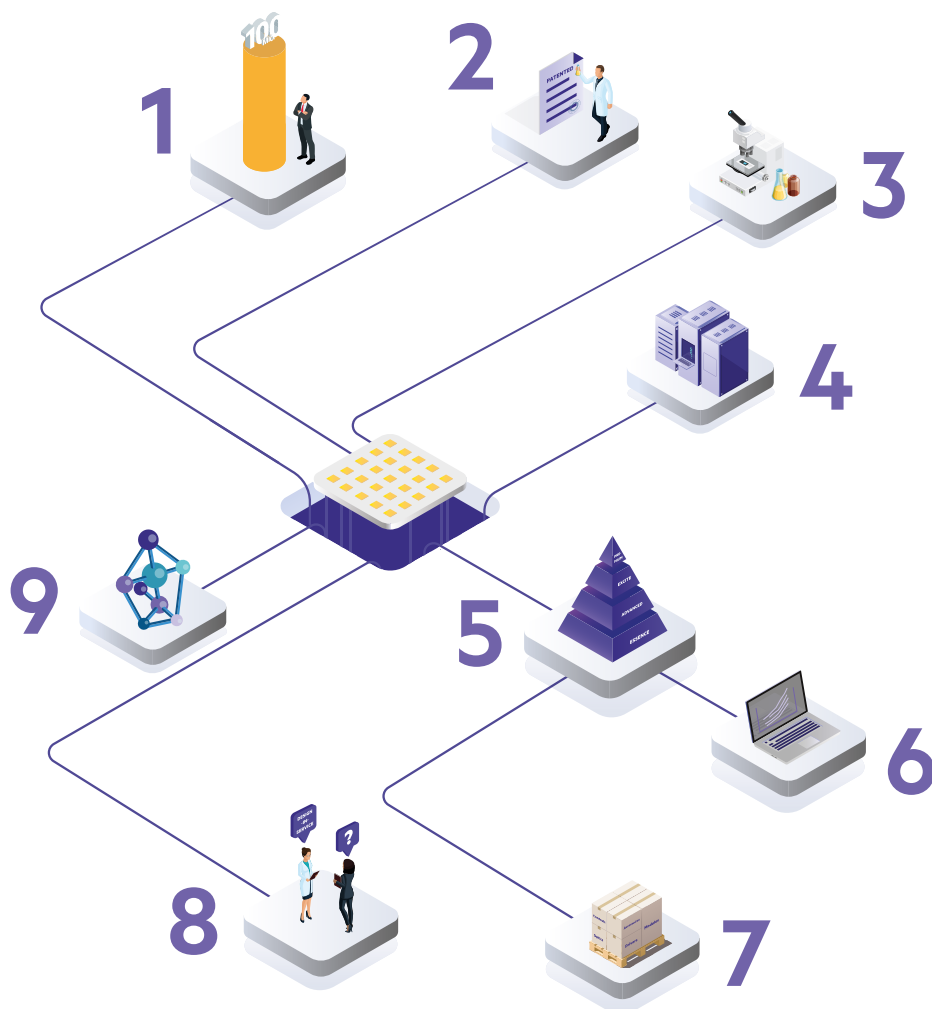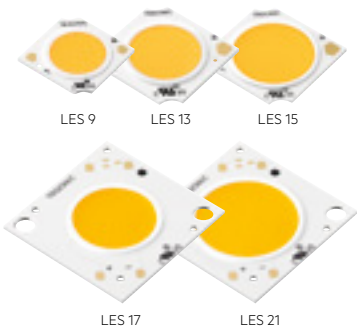
Lighting technology for magnificent lighting experiences
The new LED generation for spot and downlights

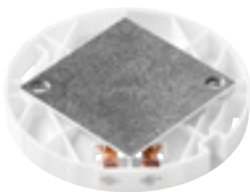## Product portfolio – Overview

RAW (R)	Cable (C)	Housing (H)	Housing (H) + TIM [1]

LES 9 LES 13 LES 15

LES 17 LES 21

---

advanced series (ADV)

Cost-effective

Brilliant white light with high efficiency and wide range of options (2,700 K, 3,000 K, 3,500 K, 4,000 K)

---

excite series (EXC)

Simplicity itself

Wide range of colour temperatures for magnificent staging (FOOD, ART, FASHION, PURE WHITE)

---

premium series (PRE)

Convenient

Dynamic light for Tunable White applications (2,700 K – 6,500 K)
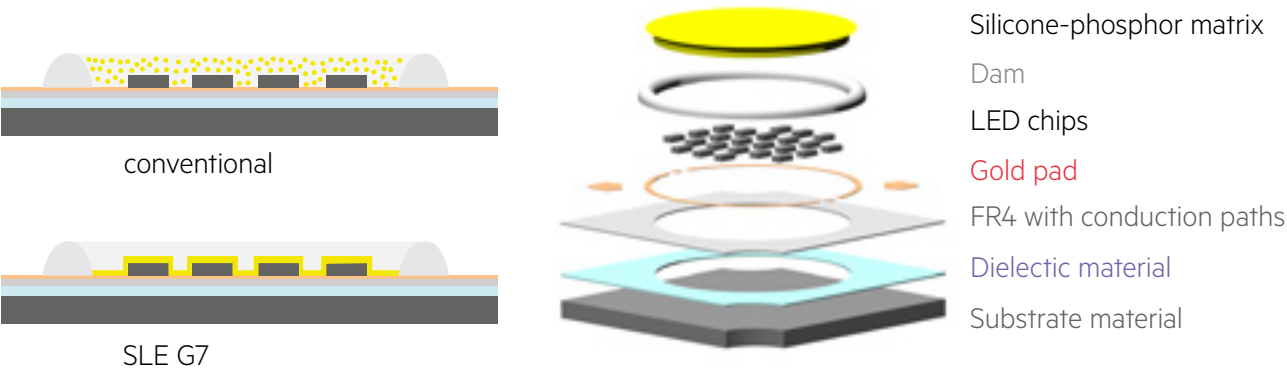
[1] TIM=Thermal Interface Material

Lighting technology for magnificent lighting experiences
The new LED generation for spot and downlights

The SLE module series for spotlight applications allows for multifaceted and impressive design in shops, exhibitions and hotels. While ADV modules impress with high efficacy and perfect colour rendering, EXC modules, with their additional selection of special colours, are ideal for special presentation lighting tasks.

The module series, which is now in its seventh generation, offers outstanding efficacy of up to 190 lumen per watt and optimised colour rendering, providing the right solution for any requirements. With a new TIM material, which improves the thermal connection to the heat sink and thus also improves heat dissipation, SLE G7 enables a particularly small luminaire design.

conventional

SLE G7

Silicone-phosphor matrix
Dam
LED chips
Gold pad
FR4 with conduction paths
Dielectic material
Substrate material

New phosphor settlement process: The phosphor particles for light conversion are no longer distributed in the silicone matrix, but concentrated on the bottom of the light emitting area – providing more light ouput with better cooling of phosphors and colour uniformity.

LES Sizes					
SLE G7 (mm)	LES 21	LES 17	LES 15	LES 13	LES 9
SLE G1–G6 (mm)	LES 23	LES 19	LES 17	LES 15	LES 10
PCB size	31x31	31x31	19x19	19x19	13.5x13.5

The optimised procedure used to apply the phosphorous layer guarantees a substantial improvement in the Derating curve and thus ensures a stable quality of light over the entire lifetime. Thanks to the concave module corners, installation is also quick and easy.

The dimensions have also been adapted to the standard designations.

essence Serie (SNC8)
## Compact solution for simple applications

The compact modules for spotlights and downlights are ideal when elementary lighting tasks need to be fulfilled. With three versions from LES06 to LES15, different luminaire sizes can be covered with the module.

The eighth SLE generation convinces with excellent colour rendition as well as narrow colour tolerance. Technical features such as Dam&Fill technology and COB technology ensure homogeneous radiation and excellent thermal management over the entire service life.

At a glance:
Module SLE SNC8

__ Module sizes: LES06, LES09 and LES15
__ Colour temperatures: 3,000 K, 3,500 K, 4,000 K
__ High colour rendering Ra > 80 and Ra > 90
__ Narrow colour tolerance MacAdam 3
__ Homogeneous radiation due to Dam&Fill technology
__ Excellent thermal management thanks to COB technology
__ Mounting holes for M3 screws
__ Lifetime up to 60,000 hours
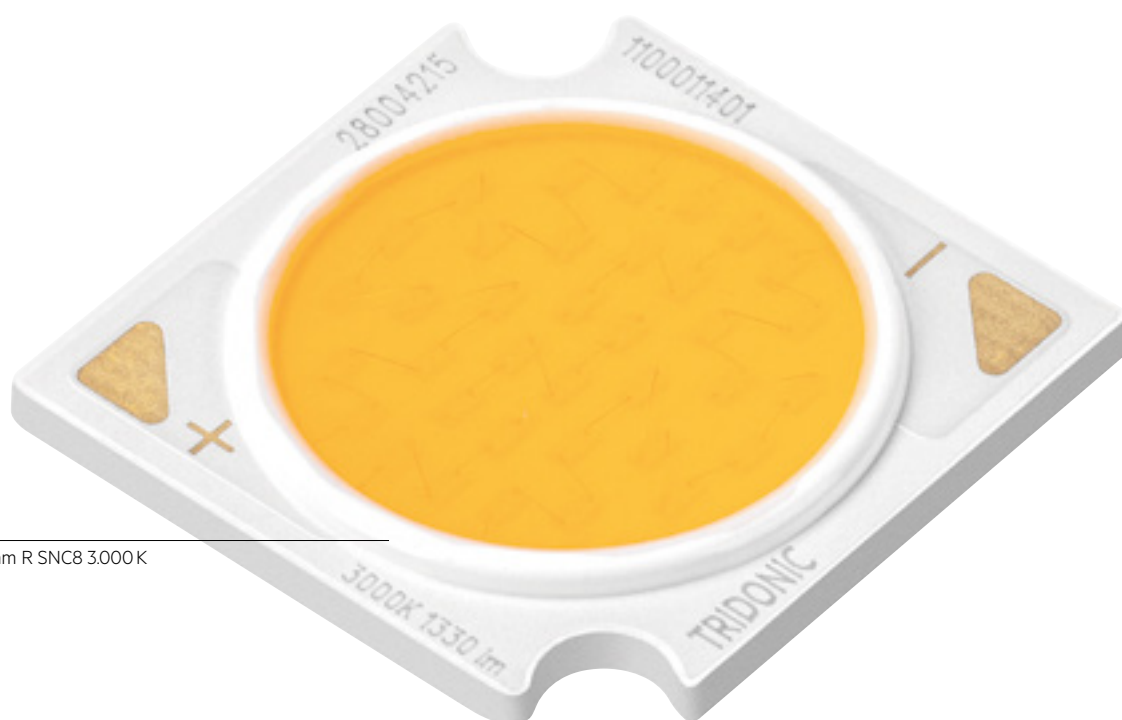
Module SLE 9 mm R SNC8 3.000 K
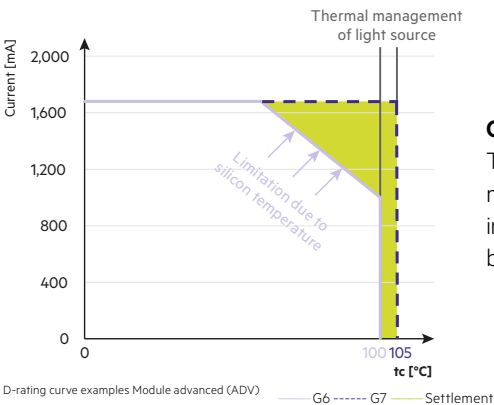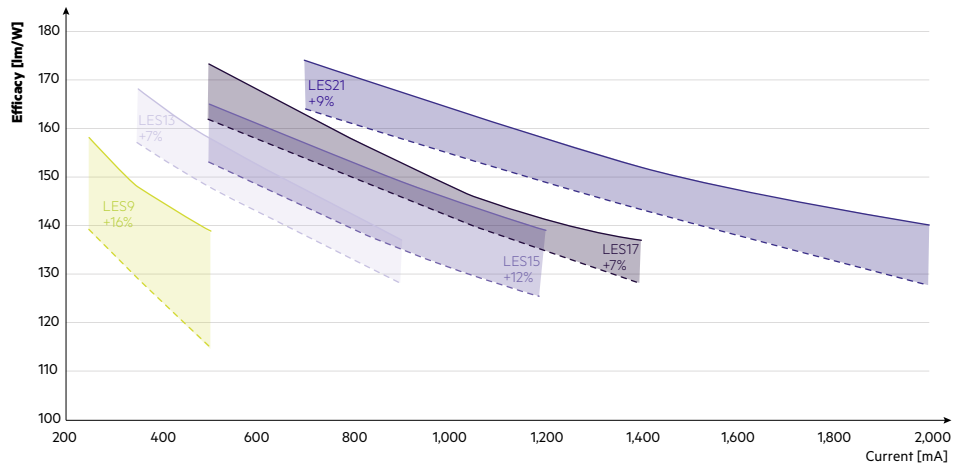
Main benefits of the 7th generation
Efficiency, lifetime, thermal improvement

up to 16 %

Higher efficacy

All raw materials at Tridonic are qualified according to the highest quality standards. In combination with strict test procedures, consistent benchmarking and high levels of expertise, Tridonic is constantly driving lighting technology forward. As a result, it has been possible, for example, to increase the efficacy of the SLE modules by up to 16 percent, so that it is now up to 190 lumen per watt.

Comparison of generations: Performance of G6 vs. G7 ADV*

--- G6 —— G7
--- LES9 --- LES13 --- LES15 --- LES17 --- LES21

* @ tp 65 °C

Optimised Thermal Improvement

The improved procedure for applying the phosphorous layer enables optimised thermal management, which not only allows for a higher operating temperature, but also an improvement in the derating curve. Thus, over the entire temperature range, the modules can be operated with currents of up to 1,600 mA and the heat sinks can be significantly reduced.

D-rating curve examples Module advanced (ADV)   —— G6 ------ G7 —— Settlement

55,000 hrs

Longer lifetime

The new SLE generation scores highly with a significantly longer lifetime, which amounts to 55,000 hours with the L80 values. At more than 50,000 hours, the L90 values also offer an outstanding lifetime and once again confirm the unique quality of Tridonic.

Comparison of generations: Lifetime of G6 vs. G7 ADV*   * @ tp 65 °C L80F10

—— G6 —— G7
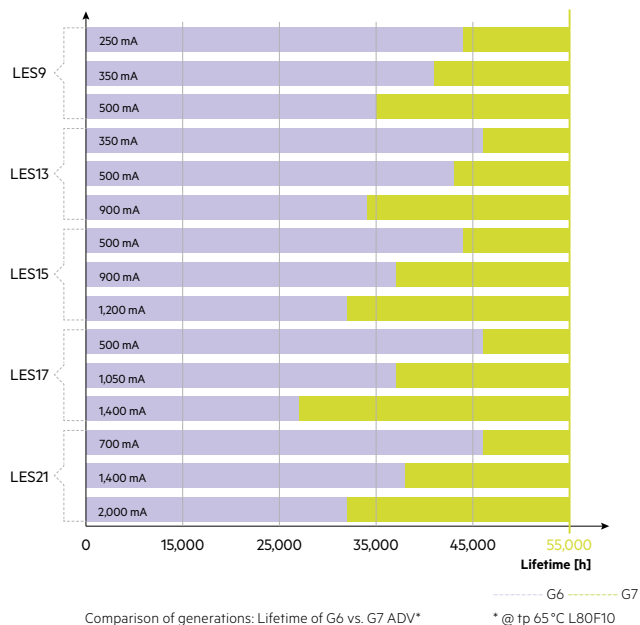
advanced series (ADV)
Brilliant white light with high efficiency and wide range of options

LES9   LES13   LES15   LES17   LES21

LES9, LES13, LES15, LES17
and LES21 with housing

At a glance:
Module SLE G7 ADV

__ Luminous flux range: 6,000 lm / 5,000 lm / 4,000 lm / 3,000 lm
__ Uniform radiation with Dam&Fill technology
__ TIM variants for easy and fast assembly
__ Excellent colour rendering (CRI > 80 and > 90)
__ High colour consistency (MacAdam 3)
__ Housing with Snap-on feature for easy reflector mounting
__ High modules efficacy up to 190 lm / W (@ tp 25 °C)
__ Long lifetime L80 55,000 hours
__ 5-year guarantee
__ For operating with SELV driver suitable

Overview of available luminous flux

Current Strom (mA)	Module (mm)	Luminus flux (lm)								
		2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000
250–900	LES09	HE	HO							
350–900	LES13		HE	HO						
500–1.200	LES15			HE		HO				
500–1,400	LES17			HE			HO			
700–2,000	LES21				HE					HO

Operating mode; high efficiency (HE) to high output (HO) @ 3.000 K; CRI > 80; tp 65 °C

Module SLE
excite series (EXC)
## Wide range of colour temperatures for magnificent staging

At a glance:
Module SLE G7 EXC

__ Application: Shop, Retail and Art
__ Tailored spectrum composition for FOOD Lighting:
GOLD makes bread appear crispier, MEAT and
sausages appear fresh and juicy, FISH underlines
the freshness of fish and seafood, FRUIT accentuate
the freshness of fruit and vegetables
__ Highest light quality in the market with full spectrum
technology for ART, so the objects appear exactly
as they were intended
__ FASHION offers unique lighting experience for textiles:
special LED spectra so that items are naturally
improved and colours are more vivid with the high CRI
__ With a perfect balance between colours PURE WHITE
modules allow objects to shine brighter with the
highest efficacy
__ High colour consistency MacAdam 3 (ART: MacAdam 2)
__ High module efficacy up to 160 lm / W (@ tp 25 °C)
__ Long lifetime L80 55,000 hours
__ 5-year guarantee
__ For operating with SELV driver suitable

**Illumination with a sales-promoting effect is a big challenge for
lighting technology. Different materials and colours require specific
lighting characteristics in order to be shown off to their best effect.
Tridonic offers a wide range of modules for this purpose, which
can be used to stage the most diverse objects perfectly.**

In the food sector, the targeted use of special light colours has long
been standard practice. Intensive brown tones make bakery products
appear crispier, while meat appears juicier against full red tones and
cool light makes fish look even fresher. Tridonic also offers modules
that ensure natural colour rendering across all locations. Shops can
also benefit from special modules for fashion as well as the new
PURE WHITE light colour, which highlights white tones for a natural,
full colour effect. All components are selected and developed in a
strict qualification process. Patented phosphorous recipes optimise the
interaction between efficiency and colour rendering.
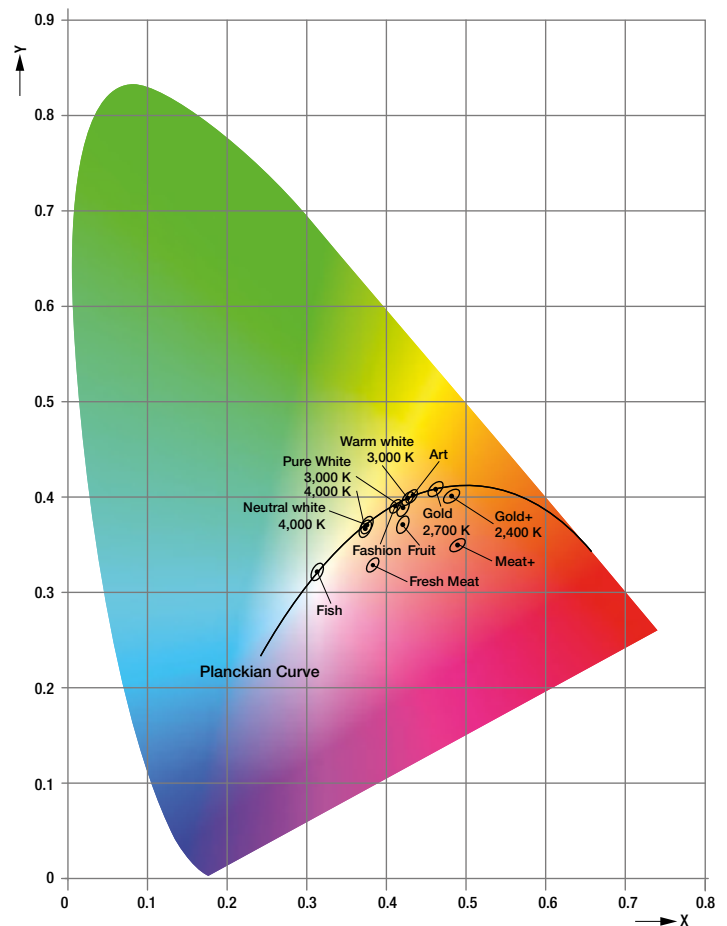
Module SLE
excite serie (EXC)
FOOD

FOOD

Food retailers want to make their fresh products such as fruit, vegetables, bread and meat, look as attractive as possible. And luminaire manufacturers are helping them do so by creating lighting systems that emphasize the reds in fresh meat and tomatoes for example, or the warm brown-yellows in fresh bread. The correct light can have a hugely positive impact on shoppers' perception, creating an almost mouthwatering effect.

At a glance

— Application specific colours for attractive product presentation
— For spotlights and downlights
— Housing with snap-on feature for easy reflector mounting
— 50 mm housing with 35 mm mounting hole distance acc. to Zhaga
— For operating with SELV driver suitable
— Luminous flux up to 8,990 lm at tp = 65 °C
— High colour consistency
— Excellent thermal management by COB technology
— Uniform radiation with Dam&Fill technology
— Fixing holes for M3 screws
— Integrated LED module
— Cooling required
— Flexible operating modes

Guarantee 5 yrs

Overview of available luminous flux

Currents (mA)	Module (mm)	luminous flux (lm)									
		2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000	
500-1,400	LES17	HE				HO					
700-2,000	LES21	HE							HO		

Operating mode; high efficiency (HE) to high output (HO) @ 3.000 K; CRI > 80; tp 65 °C

excite serie (EXC)
FOOD

Baked goods and cheese

GOLD
— The brown shades let bread and pastries appear crispy

GOLD+
— The brown shades appear crispier. Colour shades are stronger as GOLD

Seafood

FISH
— Very cold light underlines the freshness of fish and seafood

Meat products

MEAT+
— The red tones of the meat and sausages are noticeably stronger

FRESH MEAT
— A presentation of fresh and juicy meats and sausages is guaranteed
— White elements remain white

Fruit & vegetables

FRUIT
— Best accentuates the freshness of fruit and vegetables

Module SLE

excite serie (EXC)
ART

ART

This LED module offers the high quality of light that is needed for displaying high value exhibits. Unique Tridonic full spectrum technology provides excellent colour rendering. The average value for all the products in the SLE ART series is CRI > 97, a truly impressive figure. And you can also rely on outstanding colour consistency (MacAdam 2) for your applications.

At a glance

— Highest light quality in the market with full spectrum technology
— Housing with Snap-On feature for easy reflector mounting
— High efficacy up to 124 lm / W
— High system efficacy up to 112 lm / W
— High colour consistency (MacAdam 2)
— For operating with SELV Driver suitable
— 50 mm housing with 35 mm mounting hole distance acc. to Zhaga
— Uniform radiation with Dam&Fill technology
— Fixing holes for M3 screws

| Guarantee 5 yrs | Lifetime 55,000 hrs |

Colour vector graphic
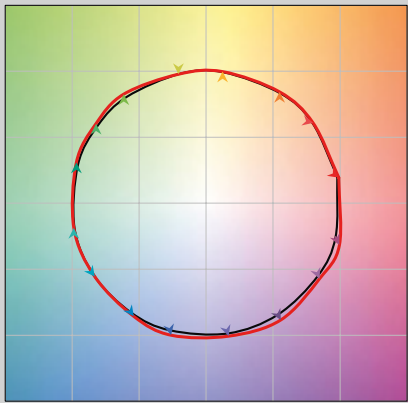
TM30		CRI	
Rf	Rg	Ra	R9
96	103	97	90

Caption

——— Reference value
——— Test value

Overview of available luminous flux

Current (mA)	Module (mm)	luminous flux (lm)								
		2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000
500–1,400	LES17	HE			HO					
700–2,000	LES21		HE				HO			

Operating mode; High efficiency (HE) to High output (HO) @ 3,000 K; CRI > 80; tp 65 °C

Module SLE

# excite serie (EXC)
PURE WHITE

PURE WHITE

With a little warmer colour place
the special PURE WHITE modules
let objects shine more lively.

At a glance

— For spotlights and downlights
— Housing with Snap-On feature
— 50 mm housing with 35 mm mounting
  hole distance acc. to Zhaga
— High efficacy up to 154 lm/W
— High system efficacy up to 135 lm/W
— High colour consistency (MacAdam 3)
— For operating with SELV Driver
— Fixing holes for M3 screws

Guarantee 5 yrs

Colour vector graphic
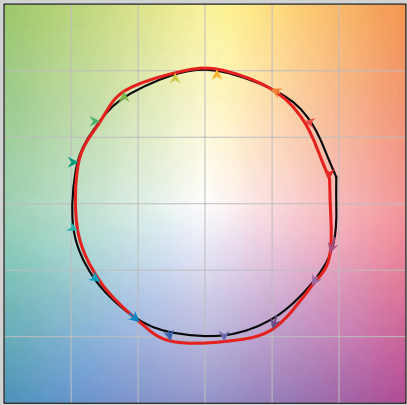
TM30		CRI	
Rf	Rg	Ra	R9
89	101	92	58

Caption

— Reference value
— Test value

Overview of available luminous flux

Current (mA)	Module (mm)	luminous flux (lm)								
		2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000
350–900	LES13	HE — HO								
500–1,200	LES15		HE — HO							
500–1,400	LES17		HE — HO							
700–2,000	LES21			HE — HO						

Operating mode; High efficiency (HE) to High output (HO) @ 3,000 K; CRI > 80; tp 65 °C
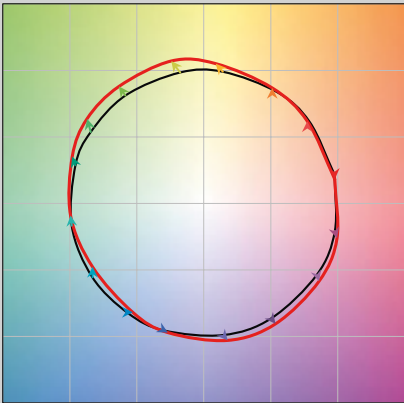
excite serie (EXC)
FASHION

FASHION

The modern FASHION LED light is ideal for the sparkling display of fashion. The technology conceals several years of intensive research targeted specifically for lighting in the retail sector. SLE FASHION generates brilliant colours with pleasant warm tones and high saturation, and completely without UV light, as well as intensive and friendly white tones thanks to the specific blue light component, for the display of goods in perfect, colour-true light.

At a glance

— Optimized light spectrum for perfect fashion presentation
— Warm, thrilling colours with a high saturation combined witha pure and shiny white
— Best balanced Fashion light for all colours (typical CRI > 95)
— Housing with Snap-On feature
— High colour consistency (MacAdam 3)
— For operating with SELV Driver
— Fixing holes for M3 screws

Guarantee 5 yrs

Colour vector graphic

Caption

—— Reference value
—— Test value

Overview of available luminous flux

Current (mA)	Module (mm)	luminous flux (lm)								
		2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000
350-900	LES13	HE — HO								
500-1,200	LES15	HE — HO								
500-1,400	LES17	HE — HO								
700-2,000	LES21	HE — HO								

Betriebsmode; High efficiency (HE) zu High output (HO) @ 3,000 K; CRI > 80; tp 65 °C

premium serie generation 2

The SLE module in the premium category lays the foundation for lively spotlight and downlight solutions that cover the entire color range from 2,700 to 6,500 Kelvin and can be customized as needed.

The combination with the DT8 driver from Tridonic results in a perfectly matched system for tunable white lighting. The premium module is available with a choice of two LES sizes, which are equipped with different lumen packages. Instead of conventional phosphor COBs, the second generation features CSP LEDs, which enable even more homogeneous radiation. For maximum uniformity, the modules can also be expanded with an optional mixed lens.

At a glance:
Module SLE PRE2

__ Two sizes: LES 13 with 2,000 lm, LES 17 with 3,000 lm
__ Efficiency up to 110 lm/W (LES 13) and 110 lm/W (LES 17)
__ Color rendering: Ra > 90
__ Color consistency: MacAdam 3
__ Built-in module with Chip Scale Package LEDs (CSP)
__ Compatible with 38 W DT8 drivers from Tridonic
__ Optional mixed lens for even higher uniformity
__ Lifetime up to 60,000 hours
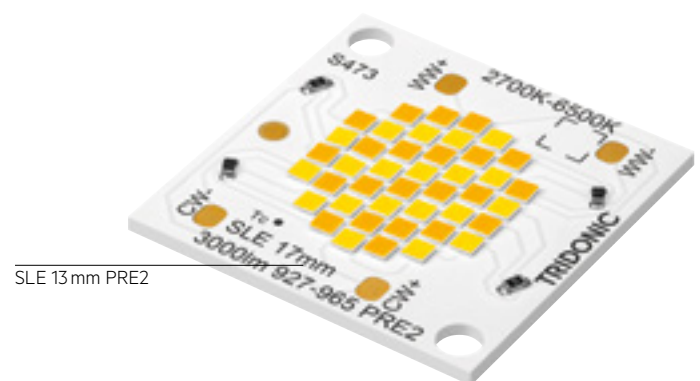
SLE 13 mm PRE2

SLE TW D50 4T

More uniform light thanks to Chip Scale Package (CSP)
The current generation of SLE modules has a new type of LED technology in the form of Chip Scale Package, where the LED chip and housing are almost the same size. This allows the individual LEDs to be configured in a staggered formation like a chess board. Combined with the small LED spacing, this enables particularly homogeneous light to be generated. The light output is increased thanks to the lateral emitting surfaces. As the LEDs in COB technology are placed on strips, rings can form in the reflector. This effect is avoided with CSP.

Did you know

Module DLE generation 4
Compact system solution for downlights

Product portfolio

advanced series (ADV)	premium series (PRE)
Simplicity itself Static White in 3,000 K, and 4,000 K with a CRI > 80	**Convenient Tunable White** Tunable White (2,700 K –6,500 K) with a CRI > 90

The market-tested and extremely reliable Module DLE portfolio is being further expanded. The compact system solutions for your downlights are being updated in terms of efficiency and application.

In its fourth generation the compact system solution for downlights has had its efficiency improved by up to 12 percent and at 185 lm/W is one of the most efficient downlight modules. In addition to the proven benefits such as excellent colour rendering of CRI > 80 and the small housing, the new generation offers greater flexibility with additional selection options. The modules are available as LED board or housing versions with integrated diffuser technology and can be operated with a dimmable or non-dimmable driver.

Applications and product portfolio
System solution for wall and ceiling luminaires

Product Portfolio - overview

	Module CLE essence (SNC) und advanced (ADV)		Module CLE Quadrant advanced (ADV)	Module CLE Shallow excite (EXC)	Engine CLE premium (PRE)
CLE Type	CLE (SNC)	CLE (ADV)	CLE (ADV)	CLE (EXC)	CLE (PRE)
Application	Diffuse Downlights	Decorative wall luminaires	Pendant and surfacemounted ceiling luminaires	Extra flat pendant and surface-mounted ceiling luminaires	Decorative Pendant and surfacemounted ceiling luminaires
Mounting	>50 mm	>50 mm	>50 mm	30 mm	>50 mm
Variants	50, 80, 120, 160, 315 mm	160, 190, 220, 315 mm with sensor and EM-option	261, 401, 541 mm	160, 370, 522, 802, 1.082 mm	261, 401, 541 mm
Lifetime	50,000 h	up to 72,000 h	50,000 h	50,000 h	50,000 h
Focus	Cost	Efficiency and light technology	Design/Trend	Design/Trend	Design/Trend

Module CLE provides perfectly homogeneous illumination in round and square luminaires with no shadow effects. As an efficient, high-quality and user-friendly system solution, CLE is the ideal replacement for ring-shaped and TC DD fluorescent lamps.

In combination with the EM powerLED emergency lighting system, Module CLE performs the functions of an emergency luminaire.
In addition, thanks to SWITCH Sensor HF a simple corridorFUNCTION (CF) is available for stepless dimming.

LED Drivers

The driver evolution of track lighting
From compact to revolutionary

	premium series (PRE)	**excite series (EXC)**	**advanced series (ADV)**	**essence series (SNC)**
	Convenient	Flexible also Universal Voltag	Simplicity itself also Universal Voltage	Cost-effective

	premium series (PRE)	excite series (EXC)	advanced series (ADV)	essence series (SNC)
Dimming	one4all, DALI-2, DT6, DT8		phase-cut up to 44 W [1] Universal Voltage 0–10 V [2]	–
Programming	flex current	flex current	fix/flex current Universal Voltage fix current	fix current
Interfaces	ready2mains, one4all	ready2mains, NFC	I-SELECT 2	–
Form factors	C, SC, SR	C, SC, SR, T	C, SC, SR, R, T	C, SC, SR, T
Wattage range	10, 17, 25, 45, 60, 100 W 38 W DT6/DT8	10, 17, 25, 45, 60, 100 W 25, 40 W in-track	7, 8, 10, 13, 14, 15, 20, 25, 30, 35, 40, 42, 47, 50, 60 W 25, 40 W in-track 14, 24, 32, 36 W Round	8, 10, 15, 25, 30, 35, 40, 45, 50, 60 W SC/SR 25,30,34,38,44 W in-track (1-phase)

[1] Only for certain variants; [2] only for US variants

Overview of casing types

Built-in (C/R)

Independent (SR)

Stretched Compact (SC)
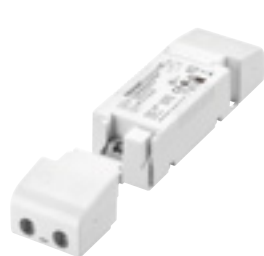
in-track (T)

48 V DC-String Technology
This revolutionary solution goes one step further than eliminating trackboxes, enabling the use of minimalist 3-phase tracks.

	DC-String
Dimming	DALI to DC Power line Communication (PLC) bridge
Programming	Fixed Output or Dimming 48 V fix current
Interfaces	one4all
Form factors Driver	SR
Form factors DC/DC Board	Regular or Slim
Wattage range	75 W , 150 W

48 V DC-String

flexC advanced (ADV) driver & SLE G7 module

Bundling brings movement into your spotlight design
Fewer components, more variety

650 mA
600 mA
700 mA
500 mA
800 mA
600 mA
500 mA
450 mA
800 mA
400 mA
850 mA
350 mA
900 mA
950 mA
1,050 mA

1,900 lm

5,500 lm

100 % Tridonic

No flicker*

Designed for best performance

Easy handling
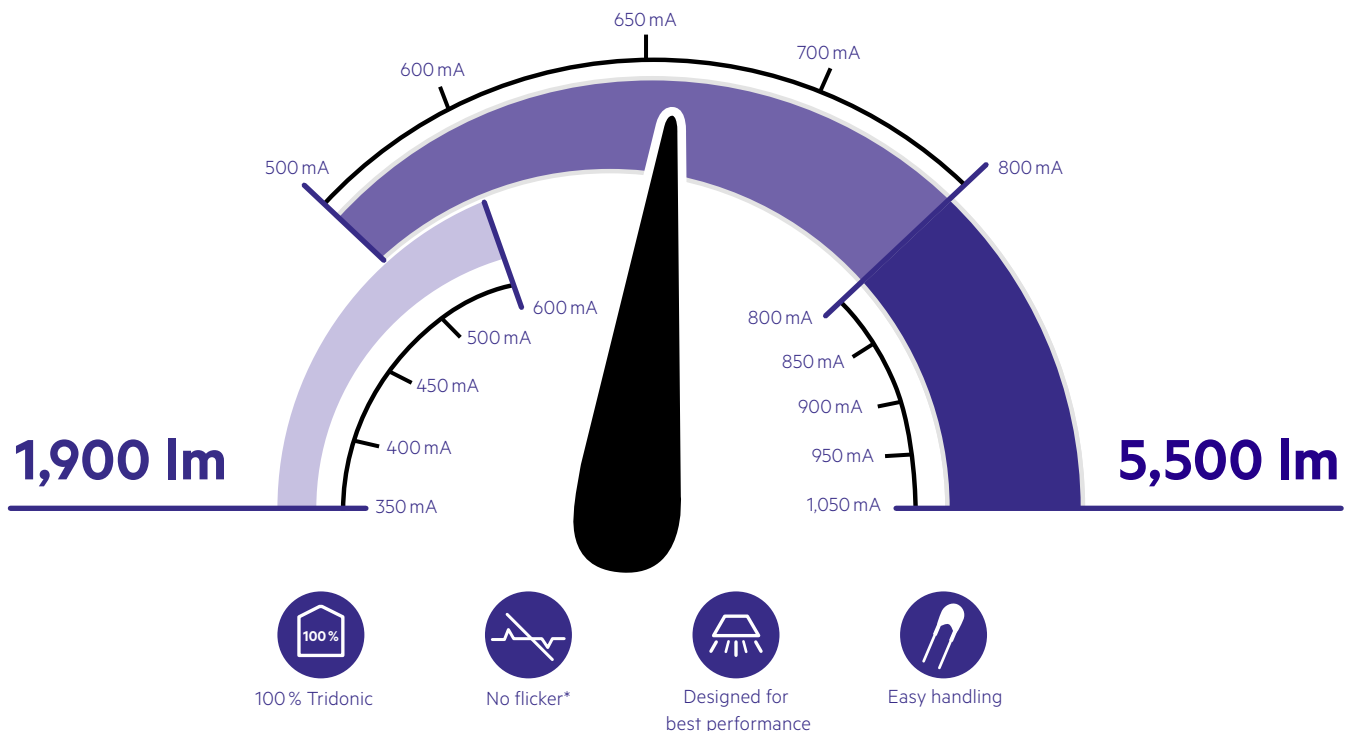
Spotlights can now be manufactured even more efficiently: Three drivers are sufficient to cover the entire lumen bandwidth of an LED module. The result is maximum flexibility with regard to product design, which goes hand in hand with low storage costs.

Financial advantages
— Only one SLE LES15 LED module for all common lumen packages for a luminaire
— Easy output current selection by plug, making it possible to use different amounts of luminous flux with one driver
— 100 percent Tridonic solution for optimum service and guarantee

Technical advantages
— Stretched Compact housing just 97 mm in length for the further miniaturisation of spotlights and downlights, with optional strain relief
— *Low ripple current (+/-5 %) for flicker-free luminaires
— Forward voltage that is perfectly attuned for efficient operation of the SLE modules
— Safe electrical connection due to strain relief (optional)

Bundling brings movement into your spotlight design
Fewer components, more variety

Driver flexC SC advanced (ADV)
25 W 350-600 mA
35 W 500-800 mA
40 W 800-1,050 mA

ADV Plug

Module
SLE G7 13 mm 3,000 lm 830 ADV
SLE G7 15 mm 4,000 lm 830 ADV
SLE G7 17 mm 5,000 lm 830 ADV
SLE G7 21 mm 6,000 lm 830 ADV
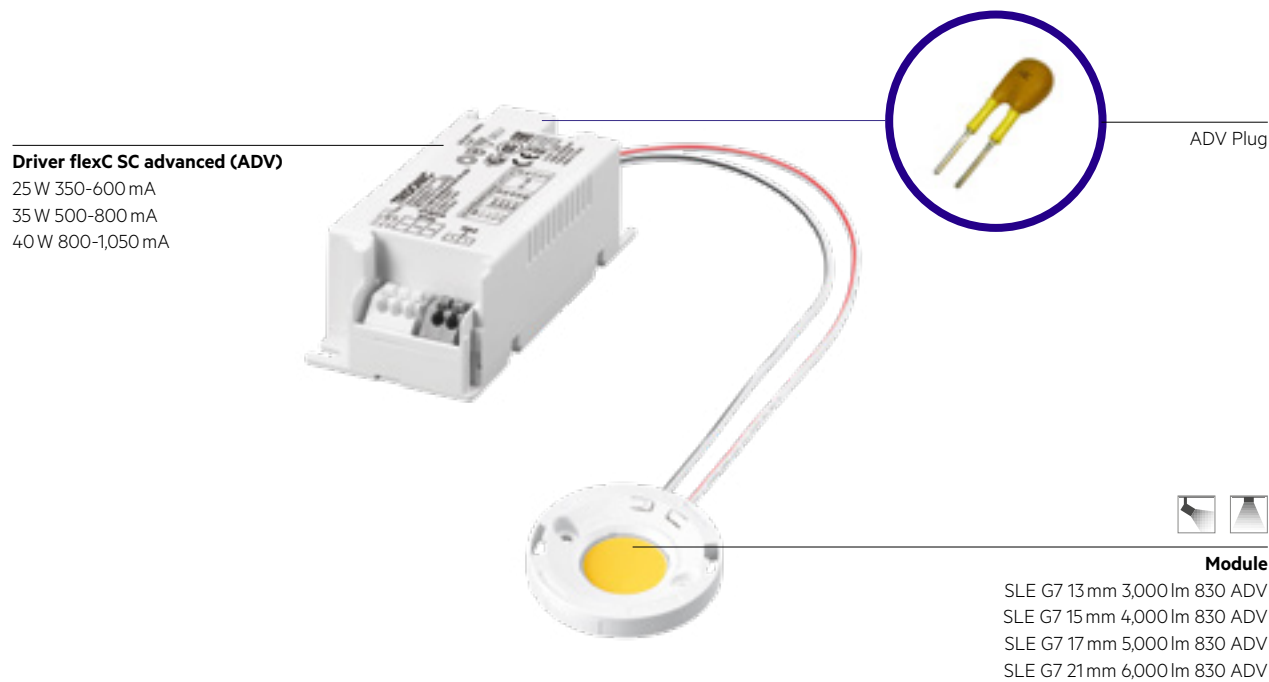
Overview of available luminous flux
Bundling: LC flexC advanced (ADV) driver & SLE G7 830 ADV module

Driver	Module	Luminus flux			
		2,000 lm	3,000 lm	4,000 lm	5,000 lm
LC flexC ADV 25 W 350 to 600 mA	SLE G7 09 mm				
	SLE G7 13 mm				
	SLE G7 15 mm				
	SLE G7 17 mm				
	SLE G7 21 mm				
LC flexC ADV 35 W 500 to 800 mA	SLE G7 13 mm				
	SLE G7 15 mm				
	SLE G7 17 mm				
	SLE G7 21 mm				
LC flexC ADV 40 W 800 to 1,050 mA	SLE G7 13 mm				
	SLE G7 15 mm				
	SLE G7 17 mm				
	SLE G7 21 mm				

LED Driver

advanced series (ADV)
Reliable and straightforward

The non-dimmable LED Driver ADV series offers the best efficacy for flexible and fixed current drivers. While focusing on the core functionalities, the driver ADV series offers superior quality and best performance ensuring a reliable operation of your LED module.

While the LED Driver ADV supports most common LED modules, the series fits perfectly to the LED module SLE series as well as QLE and LLE, guaranteeing an optimal performance and lifetime of your Tridonic LED light engine.

At a glance:
Driver advanced (ADV)

— Constant current (fixC) or adjustable current (flexC) Fixed output built-in LED Driver
— Output current (180–1,400 mA)
— Max. output power (7–60 W)
— Indoor SELV installations
— For luminaires of protection class I and protection class II
— Temperature protection as per EN 61347-2-13 C5e
— Overtemperature, Overload, Short-circuit and No-load protection
— Nominal lifetime up to 100,000 h (flexC) or 50,000 h (fixC and SR flexC
— 5-year guarantee

Driver ADV | Streched Compact

Type	Output current (mA)	Output power (W)	Output voltage range (V)	Input voltage (V)	Efficiency (%)	Size (mm)	Order No.
LC 7W 180mA fixC SC ADV2*	180	7	30-42	220~240	82	70 x 43 x 22.5	87500939
LC 8W 200mA fixC SC ADV2*	200	8	30-42	220~240	82	70 x 43 x 22.5	87500940
LC 10W 250mA fixC SC ADV2*	250	10	30-42	220~240	83	70 x 43 x 22.5	87500941
LC 13W 300mA fixC SC ADV2*	300	13	30-42	220~240	83.4	70 x 43 x 22.5	87500942
LC 14W 350mA fixC SC ADV2*	350	14	30-42	220~240	83	70 x 43 x 22.5	87500943
LC 15W 350mA fixC SC ADV	350	15	21.4-44	220~240	83	97 x 43 x 22.5	28002481
LC 15W 350mA fixC SC ADV2*	350	15	30-42	220~240	86	97 x 43 x 30	87500889
LC 21W 500mA fixC SC ADV	500	20	21.4-44	220~240	83	97 x 43 x 22.5	28002482
LC 21W 500mA fixC SC ADV2*	500	21	30-42	220~240	88	97 x 43 x 30	87500890
ACU SC 43x22.5mm CLIP-ON SR SET (Optional clip-on strain relief set for Streched Compact housing)						30 x 43 x 22.5	28001534
LC 25W 600mA fixC SC ADV	600	25	21.4-44	220~240	88	97 x 43 x 30	28002483
LC 25W 600mA fixC SC ADV2*	600	25	30-42	220~240	88	97 x 43 x 30	87500891
LC 30W 700mA fixC SC ADV	700	30	21.4-44	220~240	88	97 x 43 x 30	28002484
LC 30W 700mA fixC SC ADV2*	700	30	30-42	220~240	89.5	97 x 43 x 30	87500892
LC 34W 800mA fixC SC ADV2*	800	34	30-42	220~240	90	97 x 43 x 30	87500893
LC 35W 700mA fixC SC ADV	700	35	25-50	220~240	88	97 x 43 x 30	28002485
LC 35W 800mA fixC SC ADV	800	35	25-45	220~240	89	97 x 43 x 30	28002486
LC 38W 900mA fixC SC ADV2*	900	38	30-42	220~240	88	97 x 43 x 30	87500894
LC 40W 900mA fixC SC ADV	900	40	25-45	220~240	89	97 x 43 x 30	28002487
LC 44W 1050mA fixC SC ADV2*	1,050	44	30-42	220~240	90	97 x 43 x 30	87500895
LC 47W 1050mA fixC SC ADV	1,050	47	25-45	220~240	89	130 x 43 x 30	28002488
LC 60W 1050mA fixC SC ADV	1,050	60	31-57	220~240	89	150 x 43 x 30	28002489
ACU SC 43x30mm CLIP-ON SR SET (Optional clip-on strain relief set for Streched Compact housing)						30 x 43 x 30	28001168
ACU SC 15x43x30mm CLIP-ON SR (Optional clip-on strain relief set for Streched Compact housing)						15 x 43 x 30	28001574

Further details can be found in the datasheet

LED Driver
advanced series (ADV)

Driver ADV | Independent

Type	Output current (mA)	Output power (W)	Output voltage range (V)	Input voltage (V$_{ac}$)	Efficiency (%)	Size (mm)	Order No.
LC 20W 350/500/700mA flexC SR ADV	350; 500; 700	20	25–50	220~240	85	101.5 x 51 x 29.5	28002496
LC 35W 350/500mA flexC SR ADV	350; 500	35	35–100	220~240	88	159.4 x 82 x 34	28002495
LC 35W 700/800/1050mA flexC SR ADV	700; 800; 1,050	35	25–50	220~240	87.5	159.4 x 82 x 34	28002494
LC 42W 700/900/1050mA flexC SR ADV	700; 900; 1,050	42	30–60	220~240	88.5	159.4 x 82 x 34	28002497
LC 60W 1050/1200/1400mA flexC SR ADV	1,050; 1,200; 1,400	60	21.5–54	220~240	90.5	159.4 x 82 x 34	28002498

Further details can be found in the datasheet

LC 35/800/44 fixC SR ADV2

LC 15W 350mA fixC SRL ADV2

At a glance:
Driver advanced (ADV) fixC SR ADV 2

— Independent driver with strain-relief housing
— Housing with strain relief and the option of loop-through wiring
— Extra flat housing for constrained installation conditions
(small ceiling cut outs and low ceiling voids)
— Output current 350 – 1,050 mA
— Surge and Burst protection
— Type of protection IP20
— Temperature protection as per EN 61347-2-13 C5e
— For luminaires of protection class II
— Nominal life-time up to 50,000 h
— 5-year guarantee

Constant current driver ADV | Independent

Type	Output current (mA)	Output power (W)	Output voltage range (V)	Input voltage (V$_{ac}$)	Efficiency (%)	Size (mm)	Order No.
LC 15W 350mA fixC SRL ADV2	350	15	30-42	220~240	88	147 x 43 x 30	87500954
LC 21W 500mA fixC SRL ADV2	500	21	30-42	220~240	88	147 x 43 x 30	87500955
LC 25W 600mA fixC SRL ADV2	600	25	30-42	220~240	88	147 x 43 x 30	87500956
LC 30W 700mA fixC SRL ADV2	700	30	30-42	220~240	88	147 x 43 x 30	87500957
LC 34W 800mA fixC SRL ADV2	800	34	30-42	220~240	89	147 x 43 x 30	87500958
LC 38W 900mA fixC SRL ADV2	900	38	30-42	220~240	89	147 x 43 x 30	87500959
LC 44W 1050mA fixC SRL ADV2	1,050	44	30-42	220~240	90	147 x 43 x 30	87500960
LC 21/500/42 fixC SR ADV2	500	21	33-42	220~240	88	127 x 43 x 30	87500863
LC 25/600/42 fixC SR ADV2	600	25	33-42	220~240	88	127 x 43 x 30	87500864
LC 30/700/42 fixC SR ADV2	700	30	33-42	220~240	89	127 x 43 x 30	87500865
LC 35/800/44 fixC SR ADV2	800	35	33-44	220~240	89	127 x 43 x 30	87500866
LC 38/900/42 fixC SR ADV2	900	38	33-42	220~240	89	127 x 43 x 30	87500867
LC 44/1050/42 fixC SR ADV2	1,050	44	33-42	220~240	90	127 x 43 x 30	87500868

Further details can be found in the datasheet

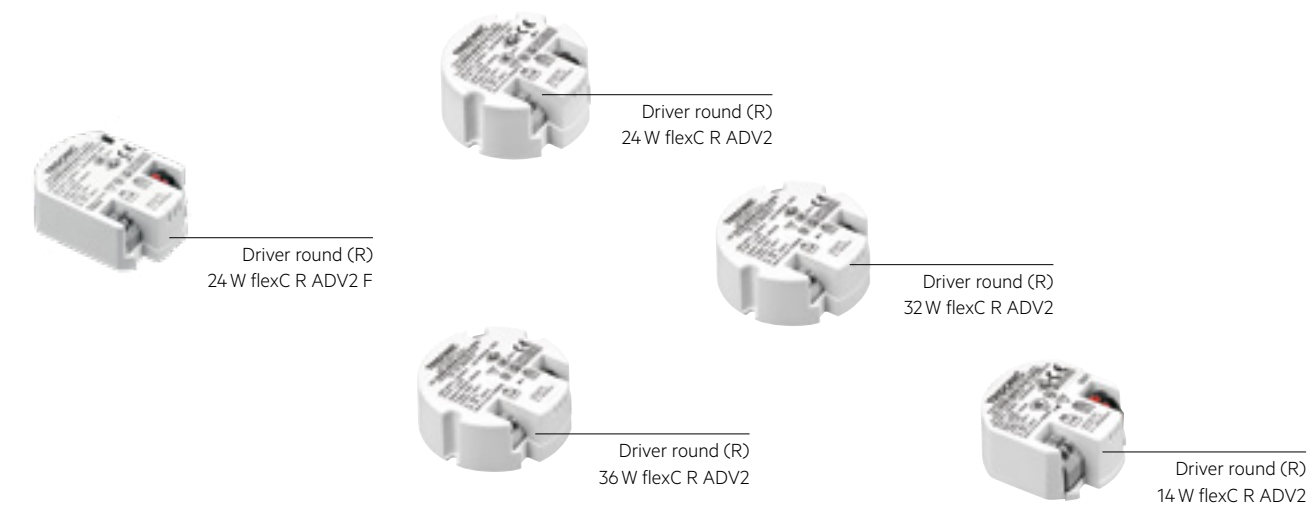Kunsthalle, Mannheim

Autor: Anselm Kiefer:
Sefiroth, 2000, Oil, Emulsion, Acrylic, Shellwash and Lead on Canvas on Wood,
Grothe pine Collection in the Kunsthalle Mannheim © Anselm Kiefer

Constant current driver Round (R), built-in ADV2
New generation, two selectable output currents

The round advanced driver (ADV) has been fundamentally optimised. As a result, the second generation can be used both for luminaires in protection class I and for luminaires in protection class II. A new 36 watt version with optional 850 or 900 mA extends the possible applications of the driver series – as does the additional extra-slim design, which can be perfectly integrated in small spotlights. Each driver has two output currents, which can be selected via a plug-in jumper. This not only reduces the amount of article numbers, but also the logistical effort. New plug-in terminals also simplify the wiring.

At a glance:
New Generation: Driver Round ADV2

__ Fixed-output built-in LED driver
__ Typical applications: spot light, track light and wall light
__ Adjustable output current 250 – 900 mA
__ Up to 90 % efficiency
__ For ambient temperatures up to 60 °C
__ For luminaires of protection class I and II
__ Nominal life-time up to 50,000 h (at ta 50 °C)
__ 5-year guarantee

Driver round (R)
24 W flexC R ADV2

Driver round (R)
24 W flexC R ADV2 F

Driver round (R)
32 W flexC R ADV2

Driver round (R)
36 W flexC R ADV2

Driver round (R)
14 W flexC R ADV2

Constant current driver round ADV2 | built-in

Type	Output current (mA)	Output voltage range (V)	Output power (W)	Input voltage (V)	Efficiency (%)	Size (mm)	Order No.
LC 14 W/250-350/40 mA flexC R ADV2	350	24–40	14	220~240	90	47 x 42 x 20 mm	28003210
LC 24 W/500-600/40 mA flexC R ADV2	600	24–40	24	220~240	90	ø56 x 25 mm	28003211
LC 32 W/700-800/40 mA flexC R ADV2	800	24–40	32	220~240	90	ø65 x 25 mm	28003212
LC 36 W/850-900/40 mA flexC R ADV2	900	24–40	36	220~240	90	ø65 x 25 mm	28003213
LC 24 W/500-600/40 mA flexC R ADV2 F	600	24–40	24	220~240	90	60,7 x 44,5 x 21 mm	28003215

Further details can be found in the datasheet

LED driver

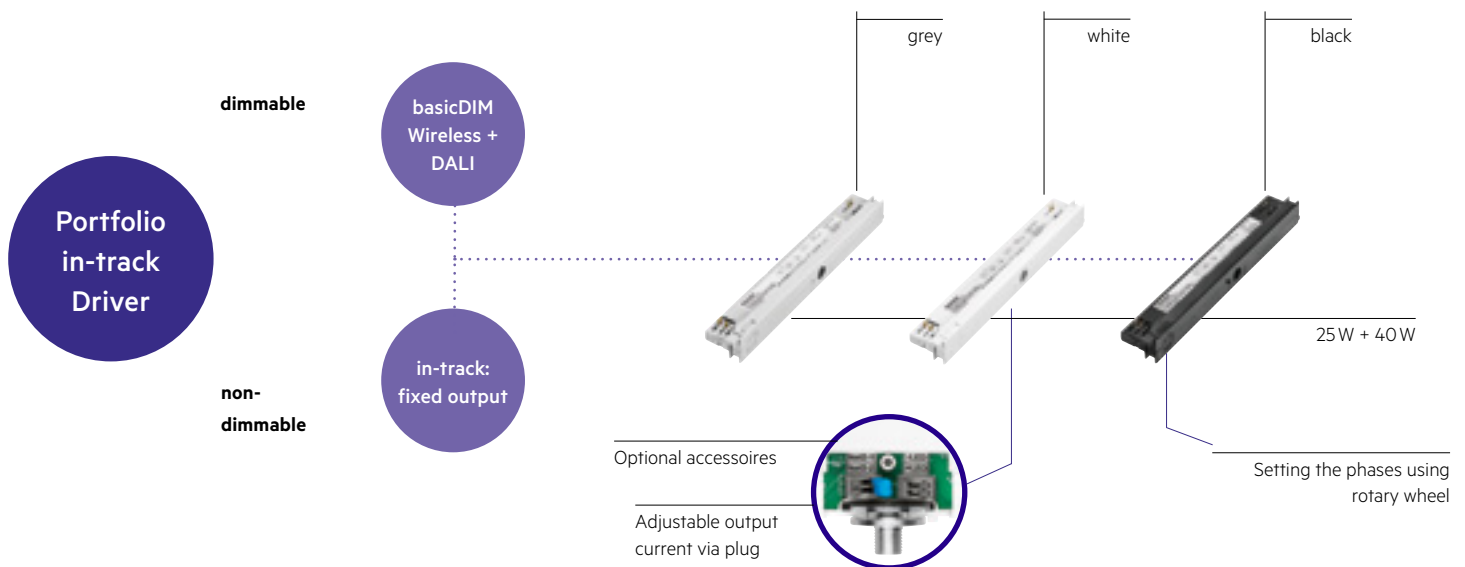# in-track driver EXC / ADV for 3 phase track system
Invisible to the eye, but essential for perfect track lights

Tridonic makes a further contribution to the trend towards miniaturisation with its in-track drivers with up to 40 watts. Drivers and adapters – available in black, grey or white – can be integrated into a 230 V 3-phase track, taking up little space, which means that a separate trackbox is no longer required. The drivers are available in fixed-output and DALI-dimming versions or with the integrated Casambi-ready basicDIM Wireless module, as required. Thanks to the wide operating window of 350 to 600 mA or 500 to 1,050 mA, the in-track driver can be combined with any LED spotlight module. Depending on the model, the output currents can be easily adjusted via I-SELECT 2 plug, companionSUITE or basicDIM Wireless – in the excite series (EXC), even in increments of 1 mA. The NFC interface enables the simultaneous programming of entire packing units with up to 10 drivers in a single process.

At a glance:
3PH driver in-track

— Constant current/track LED driver
— Output current adjustable between 350–1,050 mA,
— with I-SELECT 2 plug or DALI technology
— EXC version: In-field programming
   with NFC interface possible
— Low flicker < 5 %
— Available in black, white and grey
— Nominal life time up to 100,000 h
— 5-year guarantee

grey   white   black

dimmable

basicDIM
Wireless +
DALI

**Portfolio
in-track
Driver**

25 W + 40 W

**non-
dimmable**

in-track:
fixed output

Optional accessoires

Adjustable output
current via plug

Setting the phases using
rotary wheel

*like EXC3: complies with EXC3-Layer; See also page 30+31

Interfaces

Near field communication (NFC)

NFC)))

DALI 2

one4all (DALI-2, switchDIM,
corridorFUNCTION)

At a glance:
Driver basicDIM Wireless in-track

— Casambi-ready dimmable driver for direct
   installation in 3-phase tracks
— For scaled-back spotlight and track lighting without trackboxes
— NFC interface for multiprogramming and easy parametrisation
— On-site adjustment via 4service NFC app
— Output current adjustable via companionSUITE
— or basicDIM Wireless
— Dimming range: 1–100%
— Life time 100,000 h
— 5-year guarantee

LED driver

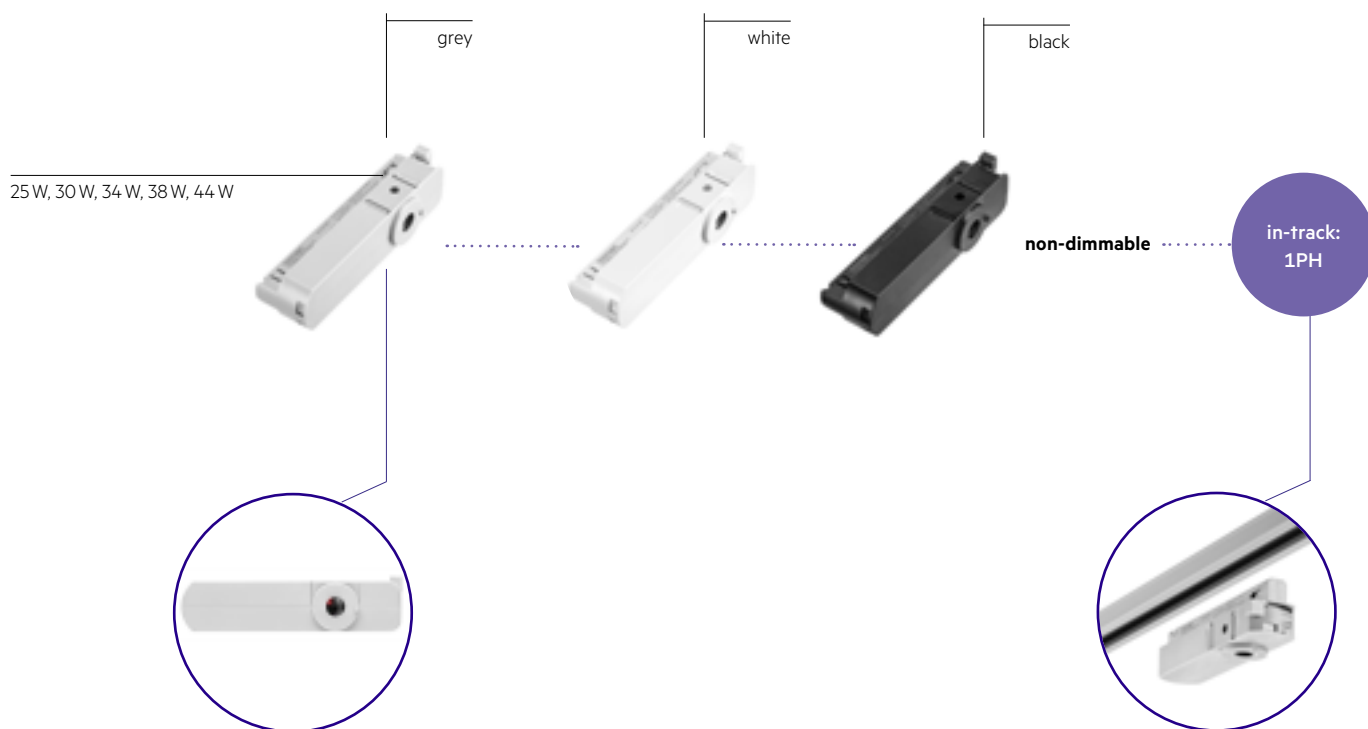# in-track driver SNC for 1 phase track system
Invisible to the eye, but essential for perfect track lights

The essence (SNC) drivers have been designed for direct installation in 1-phase tracks. The compact housing combines driver and adapter. As one of the shortest in-track drivers on the market, it creates the basis for scaled-back spotlight and track lighting. In terms of light quality, the 1-phase in-track driver's low flicker value is particularly impressive.

At a glance:
1-Phase in track driver SNC

— Efficiency up to 90 %
— Compatible with all current COBs (Vf 30–42 V)
— Available in black, white and grey

grey   white   black

25 W, 30 W, 34 W, 38 W, 44 W

non-dimmable

**in-track:
1PH**

Product overview driver in-track for 3 phase track systems and 1 phase track systems

DALI and basicDIM Wireless dimmable, Fixed Output

basicDIM Wireless driver
Wireless dimmable constant current driver EXC with adjustable current and configurable via NFC | in-track

Type	Output current (mA)	Output voltage range (V)	Output power (W)	SELV 60 V	Input voltage (V_{ac})	Size (mm)	Order No.
Interface Driver excite (EXC) via NFC							
LC 25/350-600/42 bDW NF T-B EXC3*							28003054
LC 25/350-600/42 bDW NF T-W EXC3*	350–600	14**–42	25	yes	220~240	231 x 42.4 x 32	28003055
LC 25/350-600/42 bDW NF T-G EXC3*							28003056
LC 40/500-1050/42 bDW NF T-B EXC*							28003057
LC 40/500-1050/42 bDW NF T-W EXC*	500–1,050	14**–42***	40	yes	220~240	231 x 42.4 x 32	28003058
LC 40/500-1050/42 bDW NF T-G EXC*							28003059
ACU ALU NIPPLE M10x1 (Optional accessory for mounting the luminaire head)						Ø 24.8 x 16.5	28002398

*soon available **Device operates down to 4V output voltage. It cannot be guaranteed that harmonics and EMI stay inside the limits. This has to be checked individually

3-phase track driver
Dimmable constant current driver EXC3 with adjustable current and configurable via companionSUITE or DALI | in-track

Type	Output current (mA)	Output voltage range (V)	Output power (W)	SELV 60 V	Input voltage (V_{ac})	Size (mm)	Order No.
Interface one4all, NFC, basicDIM Wireless							
LC 25/350-600/42 flexC NF T-B EXC3							87500896
LC 25/350-600/42 flexC NF T-W EXC3	350–600	14**–42	25	ja	220~240	260 x 42.4 x 32	87500897
LC 25/350-600/42 flexC NF T-G EXC3							87500898
LC 40/500-1050/42 o4a NF T-B EXC3							87500899
LC 40/500-1050/42 o4a NF T-W EXC3	500–1,050	14**–42	40	ja	220~240	260 x 42.4 x 32	87500900
LC 40/500-1050/42 o4a NF T-G EXC3							87500901
ACU ALU NIPPLE M10x1 (Optional accessory for mounting the luminaire head)						Ø 24.8 x 16.5	28002398

**Device operates down to 4V output voltage. It cannot be guaranteed that harmonics and EMI stay inside the limits. This has to be checked individually
*** 42 V til 950 mA, 38 V at 1,050mA

Dimmable constant current driver EXC3 with adjustable current and configurable via I-SELECT 2 or DALI | in-track

Type	Output current (mA)	Output voltage range (V)	Output power (W)	SELV 60 V	Input voltage (V_{ac})	Size (mm)	Order No.
Interface one4all, I-SELECT 2							
LC 25/350-600/42 o4a T-B EXC3							87500908
LC 25/350-600/42 o4a T-W EXC3	350–600	14**–42	25	yes	220~240	260 x 42.4 x 32	87500909
LC 25/350-600/42 o4a T-G EXC3							87500910
LC 40/500-1050/42 o4a T-B EXC3							87500911
LC 40/500-1050/42 o4a T-W EXC3	500–1,050	14**–42	40	yes	220~240	260 x 42.4 x 32	87500912
LC 40/500-1050/42 o4a T-G EXC3							87500913
Accessories							
ACU ALU NIPPLE M10x1 (Optional accessory for mounting the luminaire head)						Ø 24.8 x 16.5	28002398

** Device operates down to 4V output voltage. It cannot be guaranteed that harmonics and EMI stay inside the limits. This has to be checked individually
*** 42 V til 950 mA, 38 V at 1,050mA

LED driver

Product overview driver in-track for 3 phase track systems and 1 phase track sysstems
DALI and basicDIM Wireless dimmable, Fixed Output

Constant current driver EXC with adjustable current and configurable via NFC | in-track

Type	Output current (mA)	Output voltage range (V)	Output power (W)	SELV 60 V	Input voltage (V$_{ac}$)	Size (mm)	Order No.
Constant current Driver excite (EXC) via NFC							
LC 25/350-600/42 flexC NF T-B EXC							87500788
LC 25/350-600/42 flexC NF T-W EXC	350–600	12**–42	25	yes	220~240	230.8 x 31.9 x 42.7	87500819
LC 25/350-600/42 flexC NF T-G EXC							87500906
LC 40/500-1050/42 flexC NF T-B EXC							87500792
LC 40/500-1050/42 flexC NF T-W EXC	500–1,050	12**–42***	40	yes	220~240	230.8 x 31.9 x 42.7	87500820
LC 40/500-1050/42 flexC NF T-G EXC							87500907
ACU ALU NIPPLE M10x1 (Optional accessory for mounting the luminaire head)						Ø 24.8 x 16.5	28002398

** Device operates down to 4V output voltage. It cannot be guaranteed that harmonics and EMI stay inside the limits. This has to be checked individually

Constant current driver ADV with adjustable current and configurable via I-SELECT 2 | in-track

Type	Output current (mA)	Output voltage range (V)	Output power (W)	SELV 60 V	Input voltage (V$_{ac}$)	Size (mm)	Order No.
Constant current Driver advanced (ADV) via I-SELECT 2							
LC 25/350-600/42 flexC T-B ADV							87500787
LC 25/350-600/42 flexC T-W ADV	350–600	12**–42	25	yes	220~240	230.8 x 31.9 x 42.7	87500789
LC 25/350-600/42 flexC T-G ADV							87500904
LC 40/500-1050/42 flexC T-B ADV							87500791
LC 40/500-1050/42 flexC T-W ADV	500–1,050	12**–42***	40	yes	220~240	230.8 x 31.9 x 42.7	87500790
LC 40/500-1050/42 flexC T-G ADV							87500905
ACU ALU NIPPLE M10x1 (Optional accessory for mounting the luminaire head)						Ø 24.8 x 16.5	28002398

Further information can be found in the datasheet

1 phase track driver SNC | in-track

Type	Output current (mA)	Output voltage range (V)	Output power (W)	SELV 60 V	Input voltage (V$_{ac}$)	Size (mm)	Order No.
1-Phase in-track LED Treiber							
LC 25/600/42 fixC T-B SNC							28003361
LC 25/600/42 fixC T-W SNC	600	30-42	25.2	yes	220~240	150 x 34 x 38	28003356
LC 25/600/42 fixC T-G SNC							28003366
LC 30/700 fixC T-B SNC							28003362
LC 30/700 fixC T-W SNC	700	30-42	29.4	yes	220~240	150 x 34 x 38	28003367
LC 30/700 fixC T-G SNC							28003357
LC 34/800 fixC T-B SNC							28003363
LC 34/800 fixC T-W SNC	800	30-42	33.6	yes	220~240	150 x 34 x 38	28003358
LC 34/800 fixC T-G SNC							28003368
LC 38/900 fixC T-B SNC							28003364
LC 38/900 fixC T-W SNC	900	30-42	37.8	yes	220~240	150 x 34 x 38	28003359
LC 38/900 fixC T-G SNC							28003369
LC 44/1050 fixC T-B SNC							28003365
LC 44/1050 fixC T-W SNC	1,050	30-42	44.1	yes	220~240	150 x 34 x 38	28003360
LC 44/1050 fixC T-G SNC							28003370

Further information can be found in the datasheet

LED Driver

premium series (PRE)
Future-proof and reliable

LED Driver premium series (PRE) is a future-proof generation of LED Drivers characterised by highly advanced functionality and outstanding dimming behaviour.

Operating windows optimised for the intended applications ensure efficient operation of a wide range of LED modules, even across generations.
LED Driver PRE units are also suitable for the Tridonic companion-SUITE software collection.

At a glance: Driver PRE

__ Constant-current LED Driver with application-oriented operating windows
__ one4all interface supports DALI, DSI, switchDIM and corridorFUNCTION
__ Superior dimming performance with stepless amplitude dimming from 100 % to 1%
__ Power range 10–100 W
__ High efficiency of up to > 93 %
__ Unmatched standby losses of < 0.15 W
__ ready2mains technology permits configuration via companionSUITE
__ I-SELECT 2 interface for setting the current on the primary side
__ Large number of designs including the new Stretched Compact

Driver PRE | Built-in

Designation	Output current (mA)	Output voltage range (V)	Output power (W)	SELV 60 V	Input voltage (V)	Size (mm)	Order No.
LCA 10W 150-400mA one4all C PRE	150–400	15–40	10	yes	220~240	105 x 70 x 22	28000663
LCA 17W 250-700mA one4all C PRE	250–700	15–50	17	yes	220~240	105 x 70 x 22	28000664
LCA 25W 350-1050mA one4all C PRE	350–1,050	20–50	25	yes	220~240	120 x 70 x 22	28000665
LCA 45W 500-1400mA one4all C PRE	500–1,400	25–50	45	yes	220~240	120 x 70 x 22	28000666
LCA 60W 900-1750mA one4all C PRE	900–1,750	20–54	60	yes	220~240	125 x 85 x 28	28000667
LCA 100W 1100-2100mA one4all C PRE	1,100–2,100	20–54	100	yes	220~240	140 x 100 x 30	28001570

Driver PRE | Independent

Designation	Output current (mA)	Output voltage range (V)	Output power (W)	SELV 60 V	Input voltage (V)	Size (mm)	Order No.
LCA 10W 150-400mA one4all SR PRE	150–400	15–40	10	yes	220~240	200 x 70 x 31	28000669
LCA 17W 250-700mA one4all SR PRE	250–700	15–50	17	yes	220~240	200 x 70 x 31	28000670
LCA 25W 350-1050mA one4all SR PRE	350–1,050	20–50	25	yes	220~240	200 x 70 x 31	28000671
LCA 45W 500-1400mA one4all SR PRE	500–1,400	25–50	45	yes	220~240	215 x 70 x 31	28000672
LCA 60W 900-1750mA one4all SR PRE	900–1,750	20–54	60	yes	220~240	220 x 85 x 31	28000677
LCA 100W 1100-2100mA one4all SR PRE	1,100–2,100	20–54	100	yes	220~240	235x 100 x 31	28001571

Driver PRE | Streched Compact

Designation	Output current (mA)	Output voltage range (V)	Output power (W)	SELV 60 V	Input voltage (V)	Size (mm)	Order No.
LCA 10W 150-400mA one4all SC PRE	150–400	15–40	10	yes	220~240	130 x 43 x 30	28000673
LCA 17W 250-700mA one4all SC PRE	250–700	15–50	17	yes	220~240	130 x 43 x 30	28000674
LCA 25W 350-1050mA one4all SC PRE	350–1,050	20–50	25	yes	220~240	130 x 43 x 30	28000675
LCA 45W 500-1400mA one4all SC PRE	500–1,400	25–50	45	yes	220~240	150 x 43 x 30	28000676
ACU SC 43x30 mm CLIP-ON SR SET (Optional clip-on strain relief set for Streched Compact housing)						30 x 43 x 30	28001168
ACU SC 15x43x30mm CLIP-ON SR (Optional clip-on strain relief set for Streched Compact housing)						15 x 43 x 30	28001574
ACU SC 30x43x30mm CLIP-ON SR PA (Optional clip-on strain relief set for Streched Compact housing)						30 x 43 x 30	28001699
ACU SC 43x30mm CLIP-ON SR SET 300 (Optional clip-on strain relief set for Streched Compact housing)						15 x 43 x 30	28001351

LED Driver

excite series (EXC)
Flexible configuration

The new LED Driver excite series (EXC) devices feature the programmable ready2mains (220–240 V) interface.

At the same time, the cost-efficient LED Driver provides the benefits of fixed-output devices, including simple installation without additional cabling or DALI addressing.
With their excellent dimming performance, the LED Driver EXC devices are the professional solution for efficient lighting upgrades and new installations. As before, the luminous flux of a luminaire can be configured via plugs (I-SELECT 2) or via ready2mains (220–240 V), with the added flexibility of being able to set the current in 1mA steps.

At a glance: Driver EXC

— Constant-current LED Driver with application-oriented operating windows
— Output ranges from 10 W to 100 W
— ready2mains technology: configuration via companionSUITE
— High efficiency of up to 95 %
— I-SELECT 2 interface for setting the current on the primary side
— 5-year guarantee
— Large number of designs including the new Stretched Compact housing with attachable cable clamp

Driver EXC | Built-in

Designation	Output current (mA)	Output voltage range (V)	Output power (W)	SELV 60 V	Input voltage (V)	Size (mm)	Order No.
LC 10W 150-400mA flexC C EXC	150–400	15–45	10	yes	220~240	105 x 70 x 22,3	28000692
LC 17W 250-700mA flexC C EXC	250–700	15–50	17	yes	220~240	105 x 70 x 22,3	28000693
LC 25W 350-1050mA flexC C EXC	350–1,050	20–50	25	yes	220~240	105 x 70 x 22,3	28000694
LC 45W 500-1400mA flexC C EXC	500–1,400	20–50	45	yes	220~240	120 x 70 x 22.3	28000695
LC 60W 900-1750mA flexC C EXC	900–1,750	20–54	60	yes	220~240	125 x 85 x 28.3	28000696
LC 100W 1100-2100mA flexC C EXC	1,100–2,100	20–54	100	yes	220~240	140 x 100 x 30	28001572

Driver EXC | Independent

Designation	Output current (mA)	Output voltage range (V)	Output power (W)	SELV 60 V	Input voltage (V)	Size (mm)	Order No.
LC 10W 150-400mA flexC SR EXC	150–400	15–45	10	yes	220~240	200 x 70 x 31	28000698
LC 17W 250-700mA flexC SR EXC	250–700	15–50	17	yes	220~240	200 x 70 x 31	28000699
LC 25W 350-1050mA flexC SR EXC	350–1,050	20–50	25	yes	220~240	200 x 70 x 31	28000700
LC 45W 500-1400mA flexC SR EXC	500–1,400	20–54	45	yes	220~240	215 x 70 x 31	28000701
LC 60W 900-1750mA flexC SR EXC	900–1,750	20–54	60	yes	220~240	220 x 85 x 31	28000702
LC 100W 1100-2100mA flexC SR EXC	1,100–2,100	20–54	100	yes	220~240	235 x 100 x 31	28001573

Driver EXC | Streched Compact

| Designation	Output current (mA)	Output voltage range (V)	Output power (W)	SELV 60 V	Input voltage (V)	Size (mm)	Order No.
LC 10W 150-400mA flexC SC EXC	150–400	15–45	10	yes	220~240	97 x 43 x 30	28000704
LC 17W 250-700mA flexC SC EXC	250–700	15–50	17	yes	220~240	97 x 43 x 30	28000705
LC 25W 350-1050mA flexC SC EXC	350–1,050	20–50	25	yes	220~240	97 x 43 x 30	28000706
LC 45W 500-1400mA flexC SC EXC	500–1,400	20–50	45	yes	220~240	115 x 43 x 30	28000707
ACU SC 43x30 mm CLIP-ON SR SET (Optional clip-on strain relief set for Streched Compact housing)						30 x 43 x 30	28001168
ACU SC 15x43x30mm CLIP-ON SR (Optional clip-on strain relief set for Streched Compact housing)						15 x 43 x 30	28001574

Hassle-free wireless
The intuitive path towards wireless luminaire communication

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.

Production   **Commissioning**   **Use**

or

basicDIM Wireless
User Interface

4remote BT App
Commisioning + use
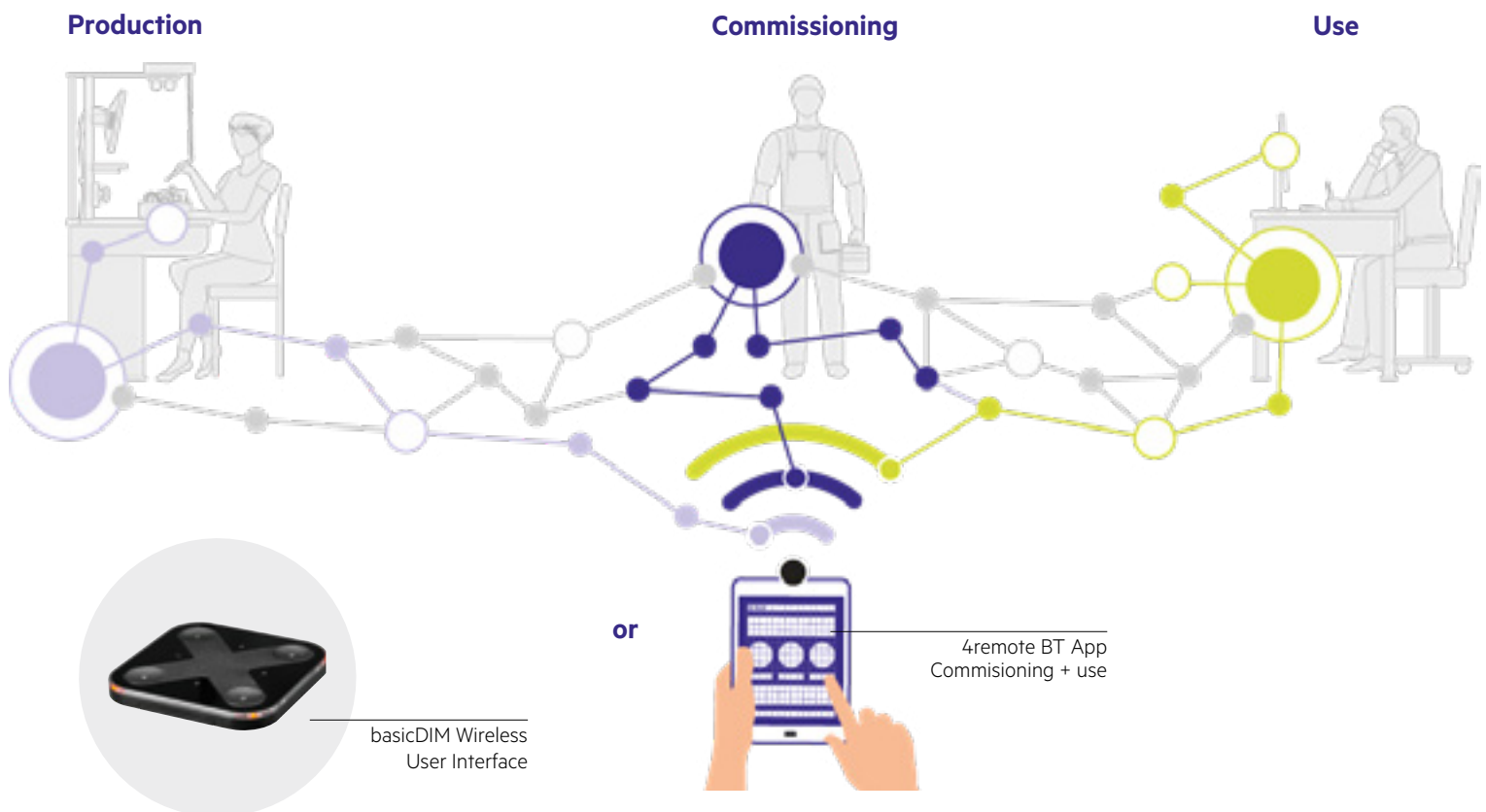
basicDIM Wireless

Hassle-free wireless
The intuitive path towards wireless luminaire communication

Wireless communication starts in the luminaire. The user uses the 4remote BT App or user interface to communicate with the basicDIM Wireless modules, which forwards the information to the LED module via the (PRE) DALI driver or the 24 V constant voltage driver.

At a glance: **basicDIM Wireless module**

__ DALI Wireless Module
__ Forms automatically a wireless communication network with up to 127 nodes

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At a glance: **basicDIM Wireless module universal voltage (UNV) 0–10V 2CH**

__ Wireless controllable with a Android / iOS smart device
__ Forms automatically a wireless communication network with up to 127 nodes
__ 2 channel 0 – 10 V dimmer

At a glance: **basicDIM Wireless module 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

At a glance: **basicDIM Wireless passive module**

__ Power supply via DALI power line (po4a driver PRE or DALI power supply)
__ Perfect integration into basicDIM Wireless's simple wireless light control
__ Support of luminaire built-in sensors for daylight sensing and presence detection (MSensor G3 familiy) from Tridonic

basicDIM Wireless Sensor 5DP 38 rc

At a glance: **basicDIM Wireless sensor 5DP 38rc UNV**

__ Ambient light dependent control and presence detection
__ Power supply via mains
__ Mounting variants for suspended ceilings and solid ceilings available
__ Passive Infrared sensor technology
__ Shutters included to focus sensor detection area

LED driver

basicDIM Wireless integrated driver

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.

Solution with basicDIM Wireless integrated 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 current (CC) SC PRE2**

__ Dimmable constant current LED driver
__ Optimised portfolio of 4 driver variants from 10 W up to 45 W (150 mA – 1,400 mA)
__ Nominal life-time up to 100,000 h, 5-year guarantee

At a glance: **basicDIM Wireless driver constant voltage (CV) SC PRE2**

__ Dimmable 24 V constant voltage LED driver for flexible LED strips
__ Optimised portfolio of 4 driver variants from 35 W up to 150 W
__ Nominal life-time up to 50,000 h, 5-year guarantee

At a glance: **basicDIM Wireless driver Tunable White PRE (TW)**

__ Independent dimmable constant current 2-channel LED driver
__ Adjustable output current via basicDIM Wireless or I-SELECT 2 Plug
__ Nominal life-time up to 100,000 h, 5-year guarantee

LED driver

basicDIM Wireless integrated driver

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

230V

LED driver

LED module
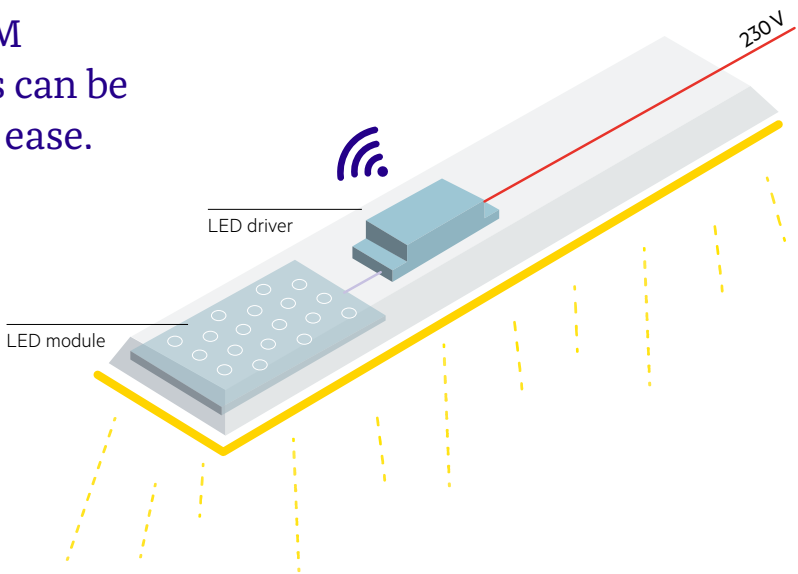
Driver PRE | Constant current

Type	Output current (mA)	Output voltage range (V)	Output power (W)	Efficiency	Input voltage (V)	Size (mm)	Order No.
LC 10/150-400/40 bDW SC PRE2	150–400	15–40	10	82	220~240	130 x 43 x 30	28002411
LC 17/250-700/50 bDW SC PRE2	250–700	15–50	17	86	220~240	130 x 43 x 30	28002412
LC 25/350-1050/50 bDW SC PRE2	350–1,050	20–50	25	90	220~240	130 x 43 x 30	28002413
LC 45/500-1400/50 bDW SC PRE2	500–1,400	25–50	45	91	220~240	150 x 43 x 30	28002414

Further details can be found in datasheet

Driver PRE | 24 V Constant voltage

Type	Output current (mA)	Output voltage range (V)	Output power (W)	Efficiency	Input voltage (V)	Size (mm)	Order No.
LC 35/24V bDW SC PRE2	146–1,453	24	35	89	220~240	195 x 43 x 30,2	28002415
LC 60/24V bDW SC PRE2	250–2,500	24	60	93	220~240	225 x 43 x 30,2	28002416
LC 100/24V bDW SC PRE2	417–4,167	24	100	93	220~240	295 x 43 x 29,8	28002417
LC 150/24V bDW SC PRE2	625–6,250	24	150	94	220~240	325 x 43 x 29,8	28002418

Further details can be found in datasheet

Driver PRE | Tunable White

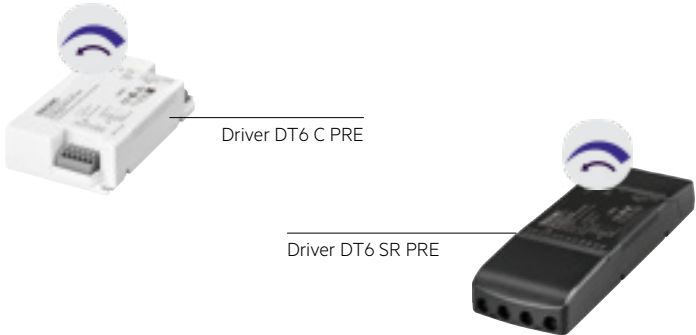| Type	Output current (mA)	Output voltage range (V)	Output power (W)	Efficiency	Input voltage (V)	Size (mm)	Order No.
LC 38/350-1050/50 bDW TW SR PRE2	350–1,050	20–50	38	87	220~240	215 x 70 x 31	28002584
LC 38W 350-1050 MA bDW TW C PRE2	350–1,050	20–50	38	87	220~240	120 x 70 x 28.3	28002858

Further details can be found in datasheet

LED driver

premium series (PRE)
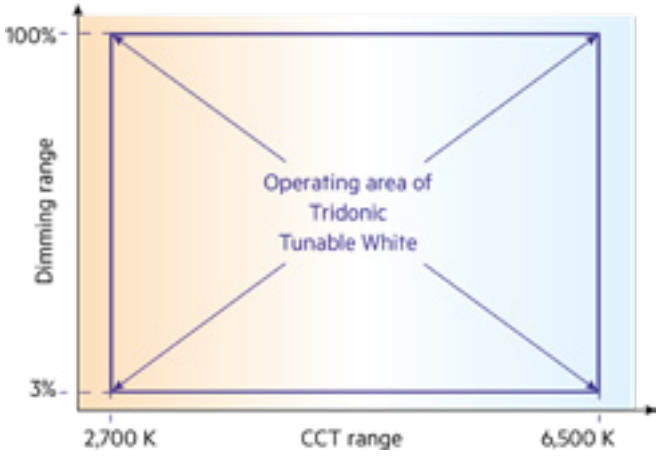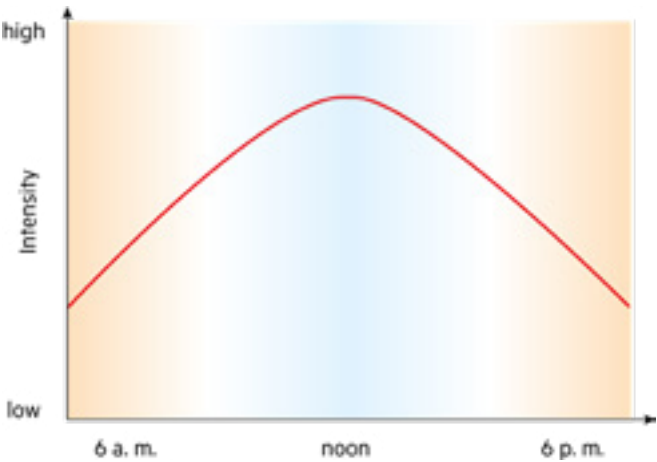## one4all multichannel DT6 driver

Driver PRE | multichannel DT6

Multiple channels in one driver are ideal for the efficient operation of pendants and floor stands with direct/indirect light or for simple Tunable White applications. The output currents can be set varied via I-SELECT 2 plugs or DALI for each channel. What's more, proportionSWITCH provides the option of selecting from dimming scenes. The one4all interface, which covers DALI DT6, DSI, switchDIM and corridorFUNCTION V2, adds to this high level of flexibility.

Driver DT6 C PRE

Driver DT6 SR PRE

Type	Output current (mA)	Output voltage range (V)	Output power (W)	Input voltage (V)	Size (mm)	Order No.
LCA 38W 350-1050mA 2xCH C PRE	350–1.050	20–50	38	220~240	120 x 70 x 28,3	28002201
LCA 38W 350-1050mA 2xCH SR PRE	350–1.050	20–50	38	220~240	215 x 70 x 31	28002204

Further details can be found in datasheet

Operating window 350-1.050 mA Ip

■ LCA 50W 350-1050 mA 2xCH/DT8 Ip PRE
  LCA 100W 350-1050 mA 4xCH/2x DT8 Ip PRE
■ LCA 38W 350-1050 mA 2xCH/DT8 C, SR PRE
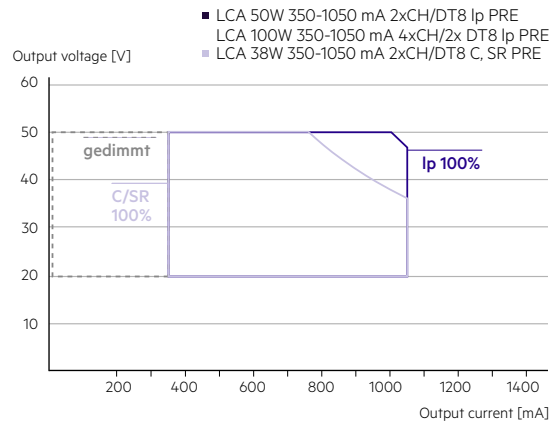
* Compact (C) and Independent (SR) Driver 1 to 100 %

LED driver

premium series (PRE)
Tunable White DT8 driver

Combined with the Tunable White modules from Tridonic, the calibrated kits ensure that the colour locations remain constant throughout all dimming levels, as well as the light flow remains constant when color changes.
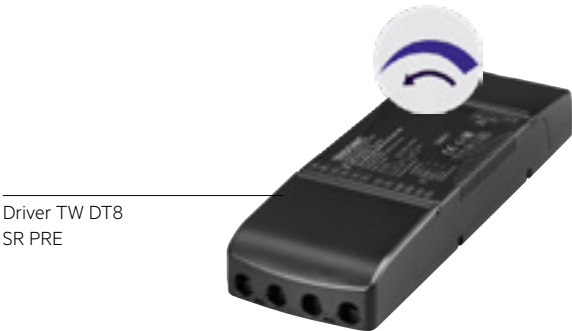
Other advantages are provided by the extremely high efficiency of up to 90 percent and the significantly extended dimming range of 1 to 100 percent. Equipped with colourSWITCH and switchDIM, the drivers also combine continuously adjustable, predefined colours and simple control.
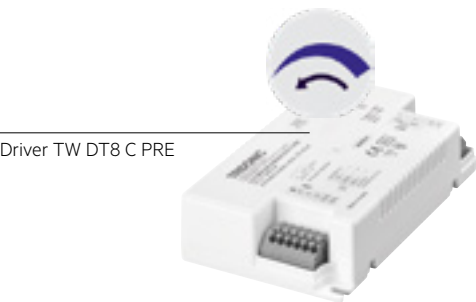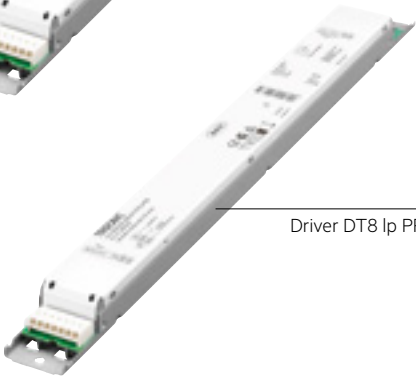
Driver TW DT8 C PRE
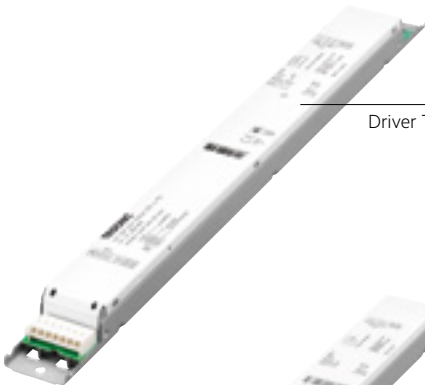
Driver TW DT8 lp PRE

Driver TW DT8 SR PRE

Driver DT8 lp PRE

Type	Output current (mA)	Output voltage range (V)	Output power (W)	Input voltage (V)	Size (mm)	Order No.
LCA 50W 350-1050mA DT8 lp PRE	350–1.050	20–50	50	220~240	360 x 30 x 21	28001909
LCA 85W 600-1800mA DT8 lp PRE	600–1.800	20–50	85	220~240	360 x 30 x 21	28002830
LCA 100W 350-1050mA 2xDT8 lp PRE	350–1.050	20–50	100	220~240	360 x 40 x 21	28001911
LCA 38W 350-1050mA DT8 C PRE	350–1.050	20–50	38	220~240	120 x 70 x 28,3	28002199
LCA 38W 350-1050mA DT8 SR PRE	350–1.050	20–50	38	220~240	215 x 70 x 31	28002202

Further details can be found in datasheet

Further information in the brochure Tunable White

LED Driver

essence series (SNC)
Attractive price in proven Tridonic quality

The non-dimmable fixed output LED Driver essence series (SNC) provides the best compromise between an attractive price and qualified performance. With a focus on application-related functions, the fixed current LED Driver range offers good Tridonic proven quality and performance that ensures reliable operation of your LED module.

The LED Drivers are compatible with many LED modules from Tridonic and provide an optimal system solution especially with LED module SLE and LED module DLE.

At a glance:
Driver SNC

— Fixed output built-in, independent and stretched compact non dimmable constant current LED Driver
— Full power range to cover all applications and requirements
— Nominal lifetime up to 50,000 h with 5-year guarantee
— Installation friendly and flexible: 2.5 mm input terminal
— For luminaires of protection class I and protection class II
— Temperature protection as per EN 61347-2-13 C5e

Driver SNC | Streched Compact

Designation	Output current (mA)	Output power (W)	Output voltage range (V)	Input voltage (V)	Size (mm)	Order No.
LC 8/180/44 fixC SC SNC2	180	8	30–44	220~240	70 x 43 x 22.5	87500793
LC 8/200/40 fixC SC SNC2	200	8	23–40	220~240	70 x 43 x 22.5	87500794
LC 10/250/40 fixC SC SNC2	250	10	23–40	220~240	70 x 43 x 22.5	87500795
LC 10/350/29 fixC SC SNC2	350	10	17–29	220~240	70 x 43 x 22.5	87500796
LC 10/500/20 fixC SC SNC2	500	10	11–20	220~240	70 x 43 x 22.5	87500797
LC 10/700/14.5 fixC SC SNC2	700	10	8–14.5	220~240	70 x 43 x 22.5	87500798
LC 15/300/50 fixC SC SNC2	300	15	28–50	220~240	70 x 43 x 22.5	87500718
LC 15/350/43 fixC SC SNC2	350	15	25–43	220~240	70 x 43 x 22.5	87500729
LC 25/350/71 fixC SC SNC2	350	25	45–71	220~240	97 x 43 x 30	87500732
LC 25/500/43 fixC SC SNC2	500	25	27–43	220~240	97 x 43 x 30	87500733
LC 25/600/42 fixC SC SNC2	600	25	27–42	220~240	97 x 43 x 30	87500734
LC 25/700/36 fixC SC SNC2	700	25	23–36	220~240	97 x 43 x 30	87500735
LC 30/350/86 fixC SC SNC2	350	30	43–86	220~240	97 x 43 x 30	87500736
LC 30/500/54 fixC SC SNC2	500	30	27–54	220~240	97 x 43 x 30	87500737
LC 30/700/43 fixC SC SNC2	700	30	27–43	220~240	97 x 43 x 30	87500739
LC 35/800/43 fixC SC SNC2	800	35	23–43	220~240	97 x 43 x 30	87500740
LC 40/900/45 fixC SC SNC2	900	40	27–45	220~240	97 x 43 x 30	87500744
LC 40/1050/39 fixC SC SNC2	1,050	40	23–39	220~240	97 x 43 x 30	87500745
LC 45/1050/43 fixC SC SNC2	1,050	45	25–43	220~240	97 x 43 x 30	87500764
LC 50/1200/42 fixC SC SNC2	1,200	50	26–42	220~240	115 x 43 x 30	87500766
LC 60/700/86 fixC SC SNC2	700	60	47–86	220~240	130 x 43 x 30	87500767
LC 60/1400/43 fixC SC SNC2	1,400	60	25–43	220~240	130 x 43 x 30	87500770
ACU SC 43x30mm CLIP-ON SR SET (Optional clip-on strain relief set for Streched Compact housing)					30 x 43 x 30	28001168
ACU SC 15x43x30mm CLIP-ON SR (Optional clip-on strain relief set for Streched Compact housing)					15 x 43 x 30	28001574

Further details can be found in the datasheet.

LED Driver

essence series (SNC)

Driver SNC | Independent

Designation	Output current (mA)	Output power (W)	Output voltage range (V)	Input voltage (V)	Size (mm)	Order No.
LC 8/180/44 fixC SR SNC2	180	8	30–44	220~240	100 x 43 x 22.5	87500799
LC 8/200/40 fixC SR SNC2	200	8	23–40	220~240	100 x 43 x 22.5	87500800
LC 10/250/40 fixC SR SNC2	250	10	23–40	220~240	100 x 43 x 22.5	87500801
LC 10/350/29 fixC SR SNC2	350	10	17–29	220~240	100 x 43 x 22.5	87500802
LC 10/500/20 fixC SR SNC2	500	10	11–20	220~240	100 x 43 x 22.5	87500803
LC 10/700/14.5 fixC SR SNC2	700	10	8–14.5	220~240	100 x 43 x 22.5	87500804
LC 15/300/50 fixC SR SNC2	300	15	28–50	220~240	100 x 43 x 22.5	87500746
LC 15/350/43 fixC SR SNC2	350	15	25–43	220~240	100 x 43 x 22.5	87500747
LC 25/350/71 fixC SR SNC2	350	25	45–71	220~240	127 x 43 x 30	87500750
LC 25/500/43 fixC SR SNC2	500	25	27–43	220~240	127 x 43 x 30	87500751
LC 25/600/42 fixC SR SNC2	600	25	27–42	220~240	127 x 43 x 30	87500752
LC 25/700/36 fixC SR SNC2	700	25	23–36	220~240	127 x 43 x 30	87500753
LC 30/350/86 fixC SR SNC2	350	30	43–86	220~240	127 x 43 x 30	87500754
LC 30/500/54 fixC SR SNC2	500	30	27–54	220~240	127 x 43 x 30	87500755
LC 30/700/43 fixC SR SNC2	700	30	27–43	220~240	127 x 43 x 30	87500757
LC 35/800/43 fixC SR SNC2	800	35	23–43	220~240	127 x 43 x 30	87500758
LC 40/900/45 fixC SR SNC2	900	40	27–45	220~240	127 x 43 x 30	87500762
LC 40/1050/39 fixC SR SNC2	1,050	40	23–39	220~240	127 x 43 x 30	87500763
LC 45/1050/43 fixC SR SNC2	1,050	45	25–43	220~240	127 x 43 x 30	87500771
LC 50/1200/42 fixC SR SNC2	1,200	50	26–42	220~240	145 x 43 x 30	87500773
LC 60/700/86 fixC SR SNC2	700	60	47–86	220~240	160 x 43 x 30	87500774
LC 60/1400/43 fixC SR SNC2	1,400	60	25–43	220~240	160 x 43 x 30	87500777

Further details can be found in the datasheet.

Driver SNC | Built-in

Designation	Output current (mA)	Output power (W)	Output voltage range (V)	Input voltage (V)	Size (mm)	Order No.
LC 10W 250mA fixC C SNC	250	10	28–40	220~240	80 x 40 x 21	87500628
LC 10W 350mA fixC C SNC	350	10	20–29	220~240	80 x 40 x 21	87500577
LC 10W 500mA fixC C SNC	500	10	14–20	220~240	80 x 40 x 21	87500578
LC 10W 700mA fixC C SNC	700	10	10–14	220~240	80 x 40 x 21	87500579
LC 13W 300mA fixC C SNC	300	13	30.3–43.3	220~240	80 x 40 x 21	87500629
LC 15W 350mA fixC C SNC	350	15	30–42.8	220~240	80 x 40 x 21	87500630
LC 20W 350mA fixC C SNC	350	20	40–57.2	220~240	93 x 58 x 26.2	87500631
LC 20W 500mA fixC C SNC	500	20	30–43	220~240	93 x 58 x 26.2	87500566
LC 20W 700mA fixC C SNC	700	20	20–28.5	220~240	93 x 58 x 26.2	87500567
LC 25W 600mA fixC C SNC	600	25	30–43	220~240	93 x 58 x 26.2	87500575
LC 30W 700mA fixC C SNC	700	30	30–43	220~240	103 x 67 x 29.7	87500559
LC 35W 350mA fixC C SNC	350	35	70–100	220~240	103 x 67 x 29.7	87500561
LC 35W 500mA fixC C SNC	500	35	49–70	220~240	103 x 67 x 29.7	87500562
LC 35W 800mA fixC C SNC	800	35	30–43	220~240	103 x 67 x 29.7	87500576
LC 35W 1050mA fixC C SNC	1,050	35	23–33	220~240	103 x 67 x 29.7	87500563
LC 40W 900mA fixC C SNC	900	40	30–43	220~240	103 x 67 x 29.7	87500560
LC 45W 1050mA fixC C SNC	1,050	45	30–43	220~240	103 x 67 x 29.7	87500564
LC 50W 1200mA fixC C SNC	1,200	50	30–43	220~240	123 x 75 x 29.7	87500568
LC 60W 700mA fixC C SNC	700	60	60–85	220~240	123 x 75 x 29.7	87500569
LC 60W 1400mA fixC C SNC	1,400	60	30–43	220~240	123 x 75 x 29.7	87500570

Further details can be found in the datasheet.

LED driver
Tridonic driver technology for a competitive edge

Toolless strain relief (type SR as well as accessory for SC)
Tridonic offers the most sophisticated strain relief on the market for LED drivers.
It can be fitted quickly and without tools by simply attaching it to the SC housing.
The SR housings also offer the possibility of loop-through wiring. This makes
installation and the connection of electrical cables much faster.

colourSWITCH-Mode
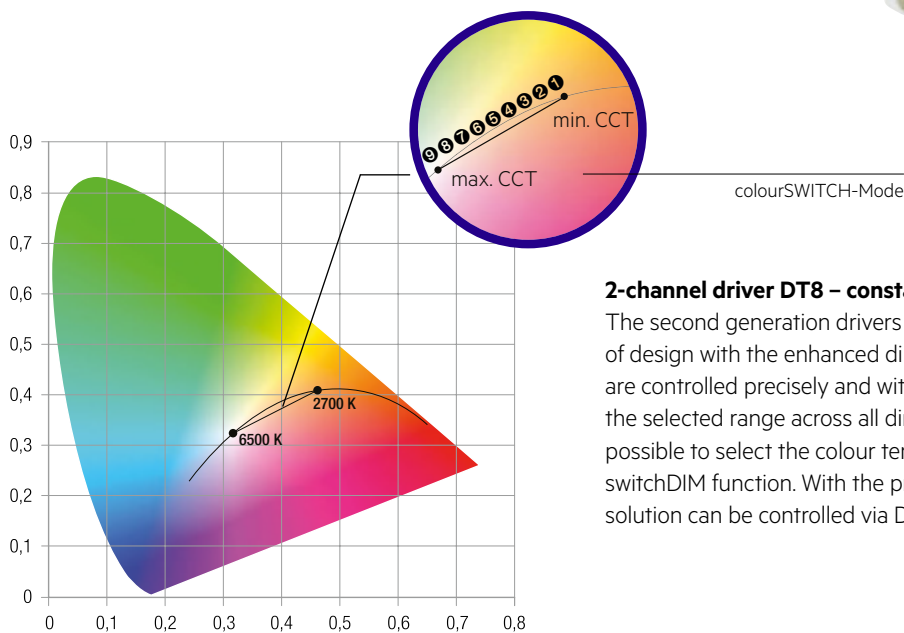
2-channel driver DT8 – constant colorimetric locus across all dimming levels
The second generation drivers guarantee even greater room for manoeuvre in terms
of design with the enhanced dimming range of 1% to 100 %. Colour temperatures
are controlled precisely and with infinite variability, while the drivers reliably maintain
the selected range across all dimming levels. The colourSWITCH function makes it
possible to select the colour temperature, while the light can be dimmed with the
switchDIM function. With the premium (PRE) category drivers, the Tunable White
solution can be controlled via DT8 using a push button or touch panel.

Flicker-free architectural lighting
With the prevalence of LED technology, the subject of flickering lights is increasingly becom-
ing a focal point. As LED light sources react to changes in operating parameters much more
quickly than other light sources, the lighting can flicker, which is perceived as irritating. The
human eye can detect frequencies up to 80 Hz as flickering light; the most sensitive frequency
range is 10 Hz to 30 Hz. The 80 Hz – 2,000 Hz frequency range can cause a so-called "strobo-
scopic effect". At present, limit values are being defined for both frequency ranges; from the
point of view of standardisation and by the European Commission. LED drivers from Tridonic
already achieve values that are significantly lower than the limit values defined, making sure
the lighting is always pleasant for those who use it.
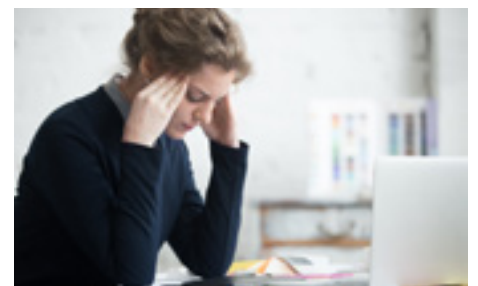
LED driver

Simple configuration – So versatile, so effective

LED drivers from Tridonic are suitable for general use and offer impressive functionality

The operating current is one of the most important parameters for the efficient application-specific use of an LED module.
LED Drivers from Tridonic offer the following options for setting this current with a high degree of flexibility:

ready2mains programmer
Simple configuration, without any additional digital interface in the LED Driver. The ready2mains programmer communicates via the mains and therefore provides a simple means of configuring all LED Drivers with the ready2mains interface – including Driver excite series (EXC). The programmer is easy to operate and extremely versatile. It can be operated manually or with predefined scripts, alternatively it can be integrated in automated processes.

I-SELECT 2 interface and ADV Plug
Perfect for manual configuration of a small number of devices. Resistance plugs defined with the required values are simply inserted in the appropriate terminals on Drivers excite (EXC) and premium (PRE) series with I-SELECT 2 Plug and advanced series with ADV plug. Tridonic offers plugs for the most common current values. The I-SELECT 2 interface also enables specific intermediate values to be used. Also avalaible as High Range, Mid Range or Low Range Current set.

I-SELECT Plug

ADV Plug

Set packaging I-SELECT

one4all interface
LED lighting with DALI, DSI, switchDIM or corridorFUNCTION:
The digital one4all interface ensures proper operation and integration in various lighting control systems.

In addition, all the parameters of driver PRE can be configured for maximum effect. The current can be adjusted in 1mA increments for individual matching to the required luminous fluxes.

— **DALI** (Digital Addressable Lighting Interface) is an interface protocol for digital communication between electronic lighting equipment.
— **DSI** (Digital Serial Interface) enables DSI ECGs to be controlled. The luminaires are switched via the control line irrespective of the cabling for the power supply.
— **switchDIM** works with the mains voltage as a control signal and makes it possible to dim the driver via a push to make switch.
— The **corridorFUNCTION** performs complex processes with ease. Standard motion detectors and luminaires with one4all LED drivers is all that is required to provide presence-controlled lighting. The corridorFUNCTION can be programmed so that if there is no one in the room the light is not switched off – as is the case with non-dimmable ballasts – but dimmed to the minimum level. It can then be switched off automatically after a preset delay.

Multiple programming via Near Field Communication (NFC)
The NFC interface offers the possibility of adjusting currents quickly and easily. Up to 20 drivers can be programmed in a single work step. In connection with the companionSUITE software, production processes can be handled more simply and quickly, and, at the same time, configuration costs can be reduced. Programming is carried out without a 230 V AC supply (Powerless) and without cables (Contactless).

NFC))))

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Light you want to follow.