

a generation



**your
needs**

A generation 4 your needs

The fourth generation is more than just a new product family with technical updates. Generation 4 stands for a comprehensive bundle of benefits which covers the driver portfolio as well as sustainability, systems and services.

Generation 4 combines maximum flexibility in application and design with simple handling and at the same time protects the environment from unnecessary impact.

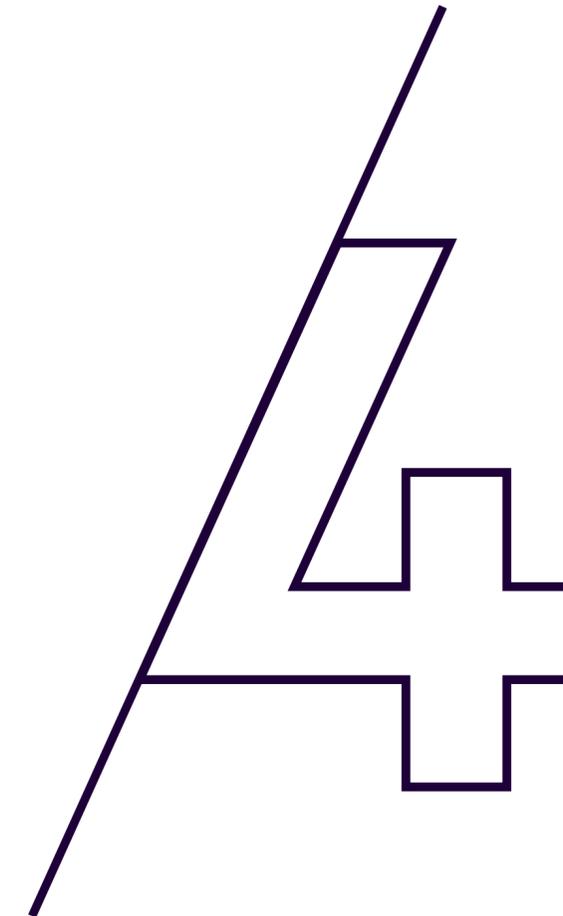
Tridonic optimises existing technologies and combines them with a series of new features that enable essential luminaire

data to be used, uncomplicated fault management to be performed and rapid on-site changes to be made.

Tridonic also facilitates certification for sustainable luminaires through its numerous services. This results in innovative, tailor-made solutions from a single source, benefiting luminaire manufacturers, users and the environment alike.

Content

| | |
|--|-----------|
| Generation 4: New generation – new benefits | 4 |
| Features | 5 |
| Increased operating window | 6 |
| NFC programming | 8 |
| Miniaturisation | 9 |
| IumDATA | 11 |
| Portfolio overview | 12 |
| Industry PRE4 | 14 |
| Indoor SNC4: spot- and downlights | 17 |
| Indoor PRE4: area and linear luminaires | 18 |
| Indoor EXC4: area and linear luminaires | 21 |
| Indoor SNC4: area and linear luminaires | 23 |



Generation 4

New generation – new benefits



built 4 inspiring possibilities

With Generation 4, Tridonic drivers have reached new levels in many respects – with so many benefits for you. Not only in their applications but also in each step of luminaire production. The benefits include greater freedom for luminaire designers, a unique variety of systems and applications, and efficient handling and warehousing.



proactive 4 making a change

Generation 4 is fit for future developments not only in terms of technology. In the interests of a future worth living, Tridonic is linking the new generation of drivers with an extensive sustainability programme focusing on Cradle-to-cradle. Numerous small details add up to a huge difference for you.



system solutions 4 expanded success and efficiency

As a full-service provider, Tridonic supplies not only individual drivers but also perfectly matched systems from a single source. From elementary to versatile and from wireless to IoT networking. It is all geared to success – with Generation 4 your solutions will be even more efficient, more flexible and easier to handle.



open ears 4 a trustful partnership

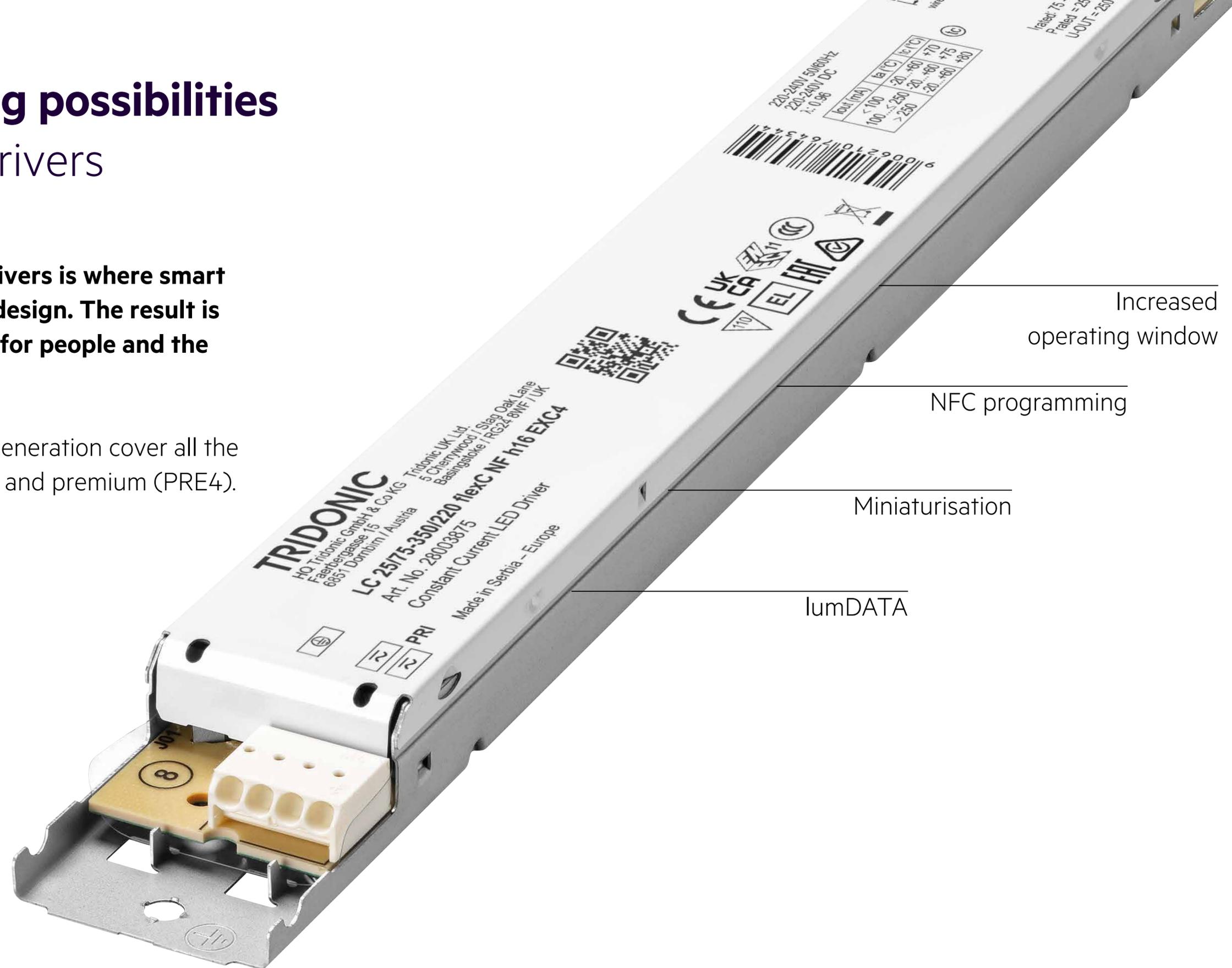
Our services are as flexible and wide-ranging as the portfolio of fourth-generation drivers. All our services and support activities aim to simplify your work processes and assist you in the manufacture of luminaires. They lay the foundation for long-term partnerships and deep trust.

Built 4 inspiring possibilities

Generation 4 drivers

This new generation of drivers is where smart features meet intelligent design. The result is a whole string of benefits for people and the environment.

The features of the fourth generation cover all the drivers in the excite (EXC4) and premium (PRE4).



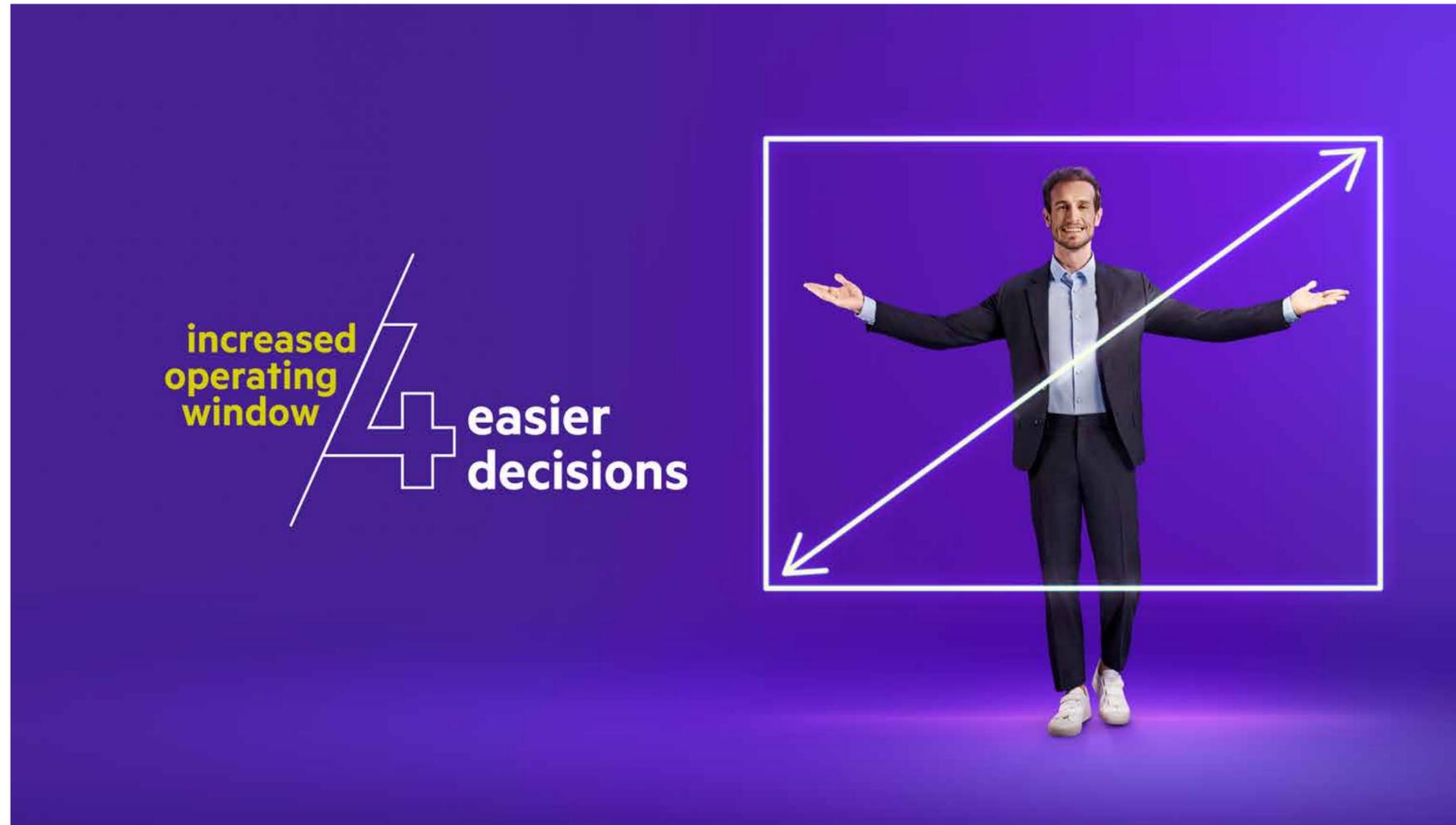
Increased operating window

NFC programming

Miniaturisation

IumDATA

Increased operating window 4 easier decisions



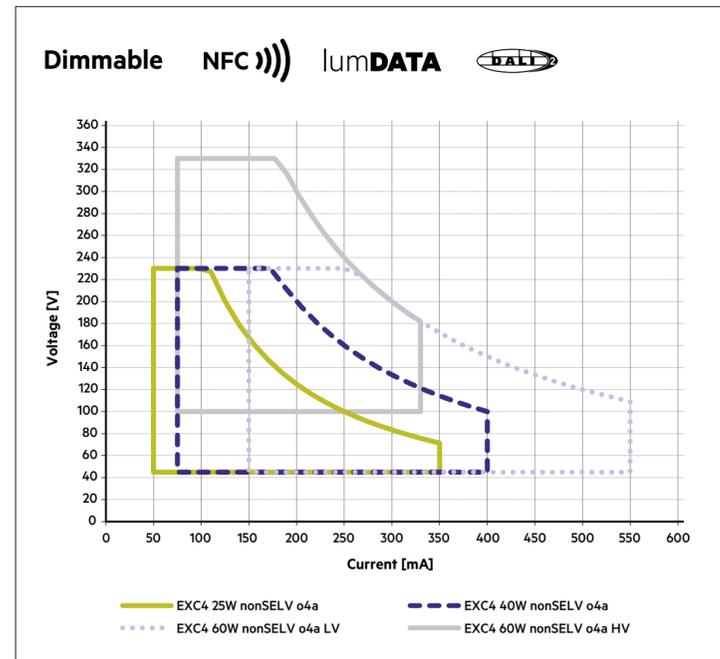
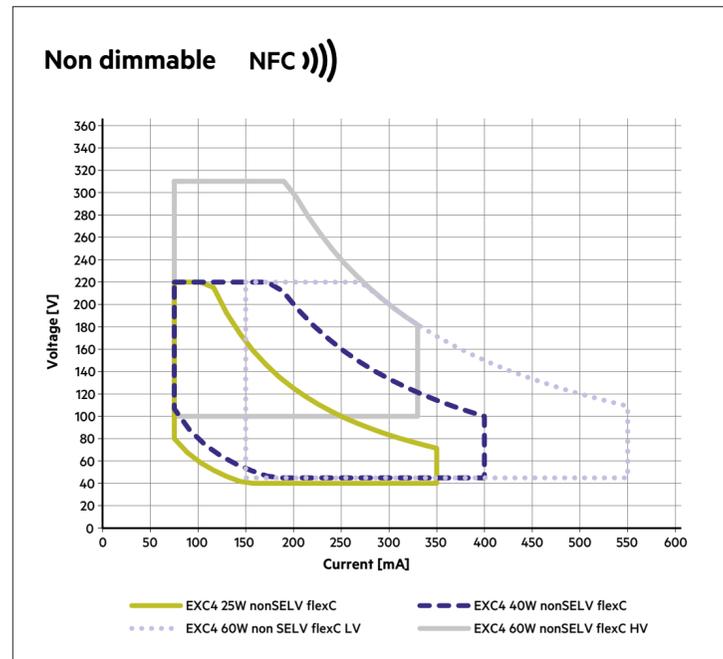
The more applications a driver can cover, the easier it is always to have the right product in stock.

What's needed is an operating window of appropriate size. Tridonic goes one step further however. The operating windows overlap from one driver to the next. This results in maximum flexibility and covers all the operating points within the voltage range. It is then possible to maintain reduced stock levels and still be able to choose a driver that is not only suitable but also more efficient. And because the new Generation 4 drivers are backwards compatible, luminaires can easily be updated with state-of-the-art technology.

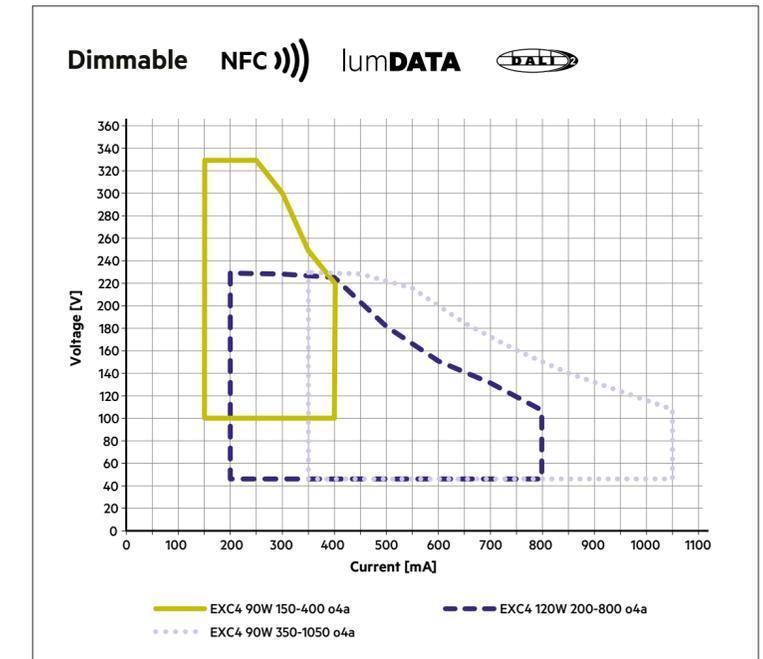
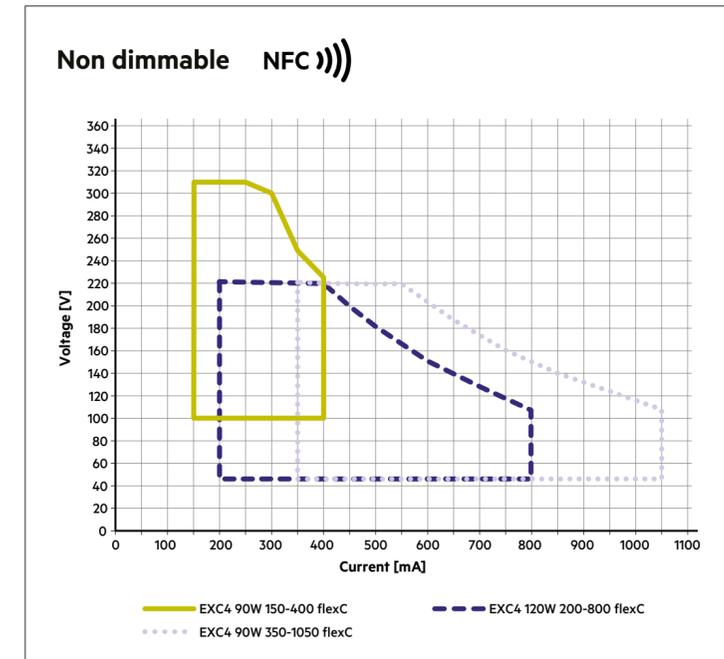
Increased operating window 4 easier decisions

The larger overlapping operating windows of the fourth generation enable both dimmable and non-dimmable drivers to be used in a wide range of applications.

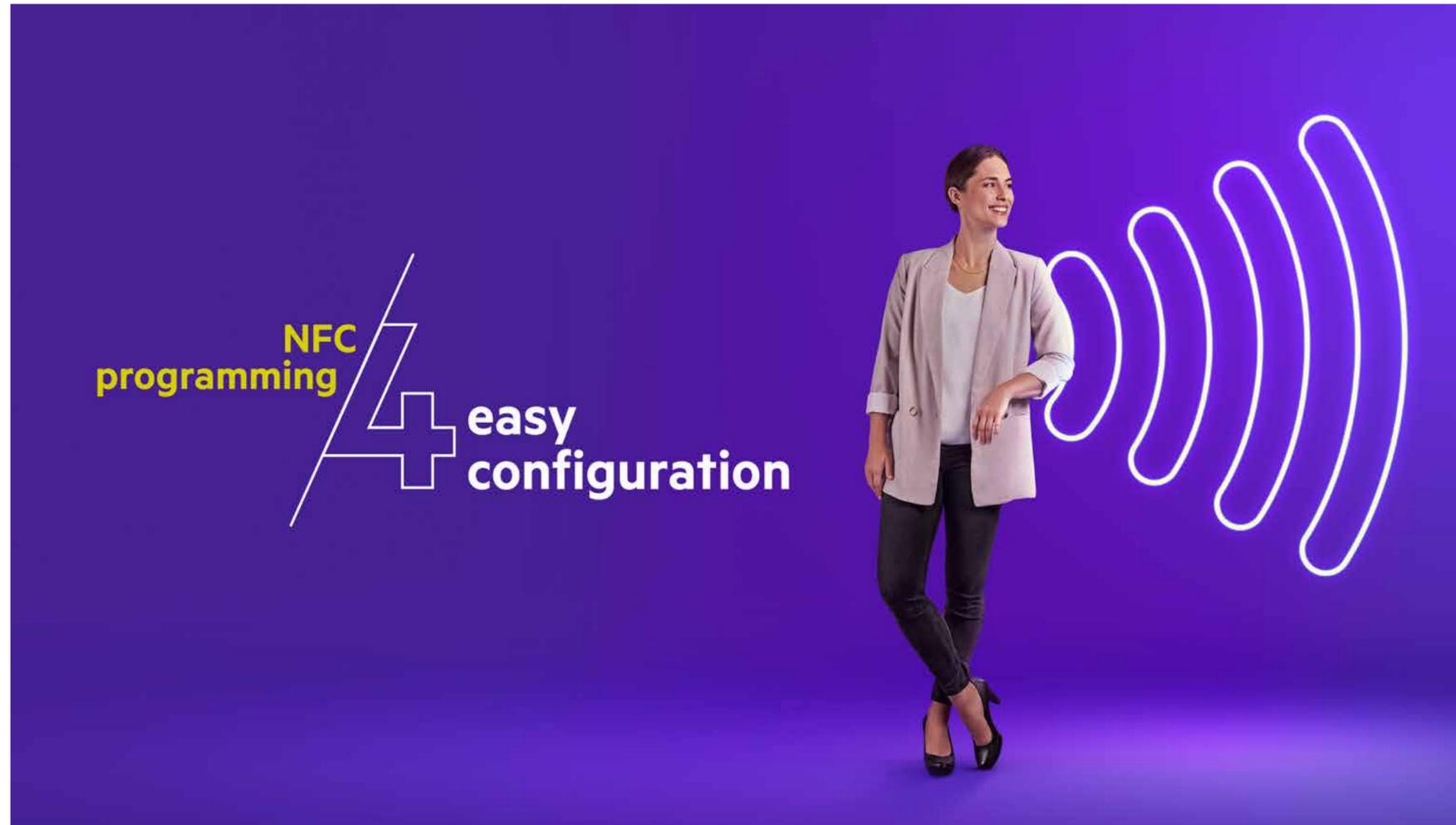
25 W / 45 W / 60 W



90 W / 120 W



NFC programming 4 easy configuration



New standards help to simplify complex processes and make them more flexible. NFC programming of drivers is a good example.

Generation 4 consigns plug settings to the history books. Since the driver does not need to be powered for NFC programming the process is safer, faster and more reliable. Even more time is saved with NFC multi-programming which allows entire packaging units to be programmed in a single step. companionSUITE from Tridonic is the ideal software collection for simple, fast and flexible configuration.

ECCO Smart 2D-TR – NFC programming made easy

This handy little device enables you to program output currents via NFC in no time at all. Simply scan the QR code for contactless programming of the individual drivers – it couldn't be easier.

Minimised 4 designer freedom



Generation 4 drivers prove that true greatness comes from within.

Just 16 mm high, the slim low-profile drivers are packed with possibilities – from space-saving freedom for designing luminaires to attractive savings on materials and resources. Less material also means less weight, which allows for finely balanced designs.

Since the 16 mm format is offered across all wattages at Tridonic, there is also an efficiency gain in luminaire production because a uniform format means that the same fastening mechanisms and tools can be used for all luminaires.

And if you are using the current 21 mm standard you will also benefit because the 21 mm format can be replaced one-for-one by slim Generation 4 products.

Minimised 4 designer freedom

One generation. Three heights. Maximum freedom of design.

The Tridonic drivers are available in three different heights to suit requirements and available space. The 16 mm high drivers now replace the 21 mm versions as the new standard in the EXC4 and PRE4 series. This gives luminaire designers even more freedom to create miniaturised luminaires.



lumDATA 4 smart data usage

lumDATA supplements the DALI-2 and D4i standards with a pragmatic intermediate solution for smart buildings and IoT concepts.

lumDATA includes all the DALI specifications of parts 251, 252 and 253 that enable essential lighting, energy and diagnostic data to be stored and shared.

> **More information**



Power supply specifications:

DALI part 250 – integrated bus power supply

DALI part 150 – AUX power supply (optional)

Data specifications:

DALI part 251 – luminaire data

DALI part 252 – energy data

DALI part 253 – diagnostics data

lum**DATA**

Portfolio overview

Linear and compact driver

SNC  **a solid base**

Linear – not dimmable

| | | | |
|---|---|--|---|
| non-SELV 25 / 35 / 50 / 65 W |  | SELV 10 / 19 / 38 / 57 / 75 W |  |
|---|---|--|---|

Compact – not dimmable 

| | |
|--|---|
| SELV 10 / 17 / 25 / 36 / 44 W |  |
|--|---|

Compact – not dimmable 

| | |
|--|---|
| SELV 10 / 17 / 25 / 36 / 44 W |  |
|--|---|

EXC  **extra flexibility**

Linear – not dimmable 

| | | | |
|---|---|---------------------------------------|---|
| non-SELV 25 / 40 / 60 / 60 / 90 / 90 / 120 W |  | SELV 20 / 35 / 55 / 75 W |  |
|---|---|---------------------------------------|---|

Linear – dimmable  lumDATA 

| | | | |
|---|---|---------------------------------------|---|
| non-SELV 25 / 40 / 60 / 60 / 90 / 90 / 120 W |  | SELV 20 / 35 / 55 / 75 W |  |
|---|---|---------------------------------------|---|

Linear – dimmable  lumDATA 

| | |
|-------------------------------------|---|
| non-SELV 75 / 105 / 150 W |  |
|-------------------------------------|---|

PRE  **full connectivity**

Linear – dimmable  lumDATA 

| | |
|---|---|
| non-SELV 40 / 60 / 60 / 90 W |  |
|---|---|

Linear – wireless  lumDATA 

| | |
|---|---|
| non-SELV 25 / 40 / 60 / 90 W |  |
|---|---|

Linear – dimmable  lumDATA 

| | |
|--------------------------------------|---|
| non-SELV 105 / 150 / 220 W |  |
|--------------------------------------|---|

Industry

Robust first-class performance



Industry

For high bay and linear luminaires

PRE4 industry

Dimmable

non-SELV

105 / 150 / 220 W

Inrush current limiter



- Constant current driver for luminaire installation with integrated DALI bus power supply (DALI-2 part 250)
- Dimming range: 1 to 100 %

[>more](#)



EXC4 industry

Dimmable

non-SELV

75 / 105 / 150 W

Inrush current limiter

- Constant current driver for luminaire installation with integrated DALI bus power supply (DALI-2 part 250)
- Dimming range: 1 to 100 %

[Available from December 2023](#)



PRE4 industry: driver with inrush current limiter

Saves space and costs

The higher the peak inrush currents, the slower-acting and more expensive the circuit breakers required for the switching cabinet.

Generation 4 industry drivers are supplied with an integrated inrush current limiter which prevents the occurrence of high peak inrush currents from the outset. This means that not only can simpler and more cost-effective circuit breakers be installed in the switching cabinet, but significantly fewer are needed.

When Generation 4 industry drivers are used a single circuit breaker can be used for about three times the number of luminaires compared to conventional drivers. That not only saves costs but also space in the switching cabinet.

For a lighting installation in a standard warehouse with 400 luminaires the savings on the purchase costs for circuit breakers may be as high as 70%.



Saves up to **70 %**
of acquisition costs

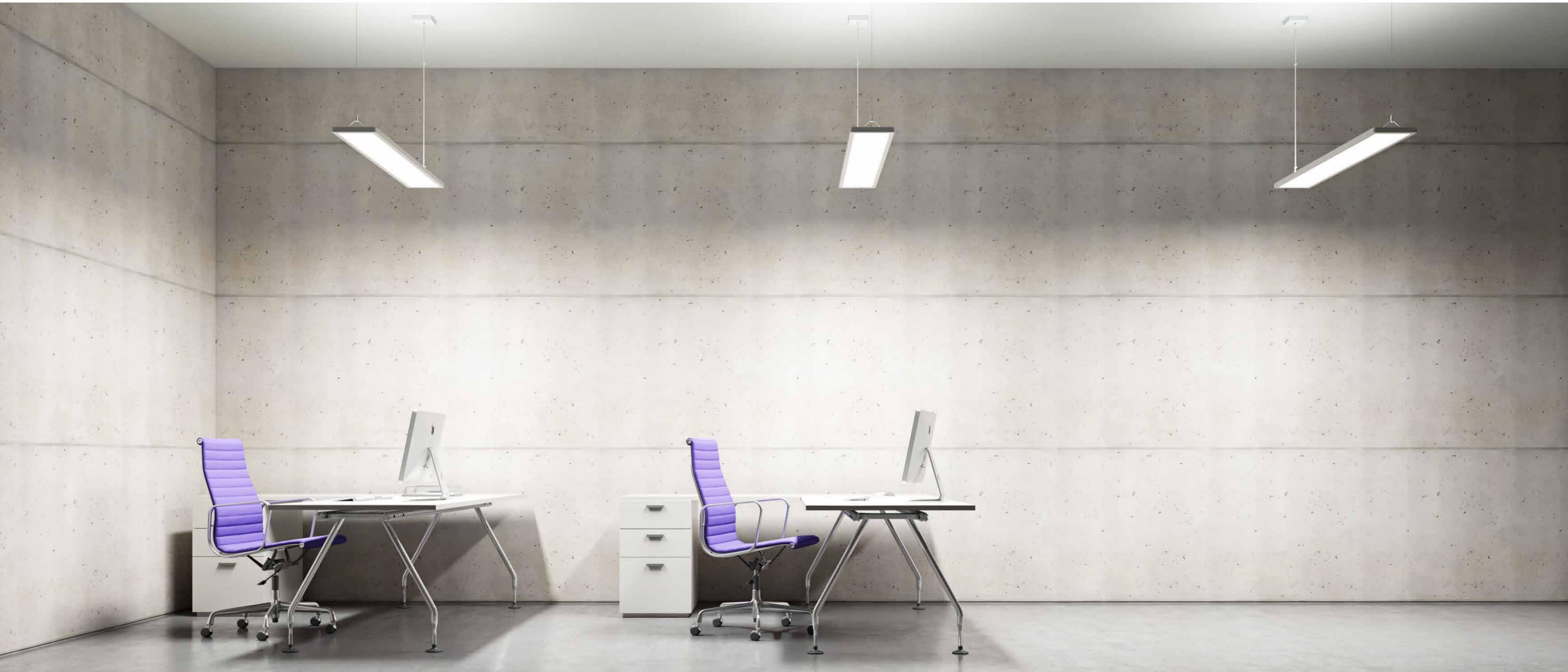
| | Without inrush current limiter | With inrush current limiter | Savings |
|---|--------------------------------|-----------------------------|-----------------------------|
| No. of luminaires | 400 pieces | 400 pieces | |
| Costs per standard B16 circuit breaker¹ | € 3,20 | € 3,20 | |
| No. of standard B16 circuit breakers | 100 pieces | 31 pieces | ~70% |
| Total cost | € 320 | € 99.20 | € 220.80² |

¹With the main function, tripping characteristic and power protection

²The savings for the reduced amount of work required for cabling and for the use of faster and therefore more economical circuit breakers are not taken into account.

Indoor

Clever and efficient



Indoor SNC4

For spot- and downlights

SNC4 | Stretched compact

Not dimmable

SELV

10 / 17 / 36 W

- Fixed output LED driver
- Can be either used built-in or independent with clip-on strain-relief
- Independent LED driver with cable clamps
- For luminaires of protection class I and protection class II

[> more](#)



SNC4 | Strain relief

Not dimmable

SELV

10 / 17 / 36 W

- Independent fixed output LED driver
- For luminaires of protection class II
- Up to 90.5 % efficiency

[> more](#)



Indoor PRE4

For area and linear luminaires

PRE4 | Linear low profile

Wireless

non-SELV

25 / 40 / 60 / 90 W

NFC)))

lum**DATA**

b**DW**



- 16-millimetre flat driver with integrated
- basicDIM Wireless module
- Compatibility of WRP with current wireless standards thanks to the 2.4 GHz frequency band
- Casambi protocol, available with other established wireless protocols on request (DALI+, Matter, WiSilica)
- Up to 95 % efficiency

[> more](#)

PRE4: non-SELV, wireless

LC 25 W / 40 W / 60 W / 90 W

For the 4th generation we have reduced the size of the housing for our [basicDIM Wireless](#) driver by 24 percent. But that's not all. As the first 16 mm low-profile driver, it has all the technology needed for a wireless indoor lighting solution because Tridonic has integrated the usually separate wireless module directly in the driver. All thanks to the innovative Wireless Reference Platform (WRP).

Combining components saves not only space in the luminaire but also valuable resources. For you, this means less installation work and a lower purchase price. The premium driver features the Casambi protocol as standard, but can be equipped with other wireless protocols such as [Matter](#) or [WiSilica](#) on request.



PRE4: driver with integrated wireless module

Simple wireless lighting control

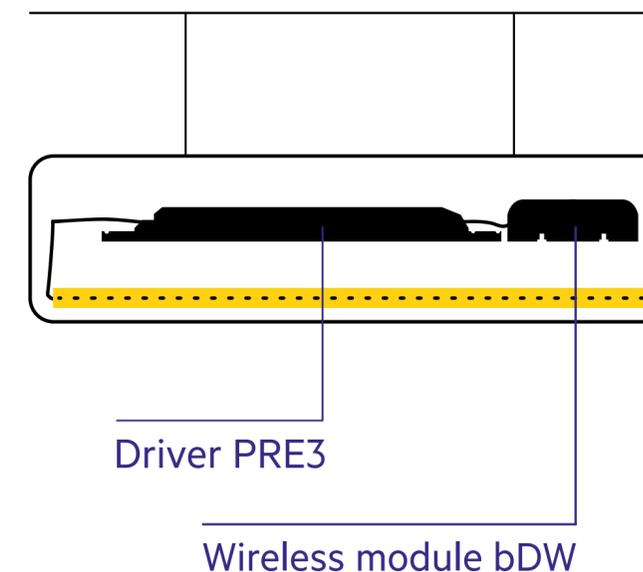
With [basicDIM Wireless](#) we offer a simple way to add wireless control to lighting systems without having to make any structural modifications. A luminaire needs a driver and wireless module that communicate with each other via Casambi-ready basicDIM Wireless technology.

Equipped with the Wireless Reference Platform (WRP), the premium Generation 4 drivers add a further option to the portfolio – for simple, cost-optimised lighting management. **Thanks to WRP, the wireless module is integrated directly in the driver. By combining the components, we have reduced the consumption of valuable raw materials. And as a customer you benefit from lower installation and acquisition costs.**

Like the proven two-component solution, the combined wireless version offers numerous benefits and functions for simple, convenient and versatile lighting control. While the integrated driver solution offers more space in the luminaire, the separate wireless module can be placed outside the luminaire with a high degree of flexibility, making the classic solution ideal especially for rooms with partitions or niches.

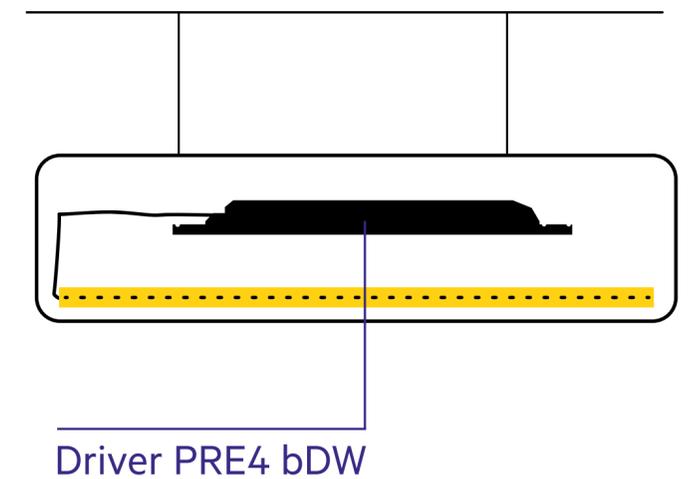
Two-component solution

Flexible and versatile



Integrated solution

Cost-optimised and simple



Indoor EXC4: dimmable

For area and linear luminaires

EXC4 | Linear low profile

Dimmable

non-SELV

25 / 40 / 60 / 90 / 120 W

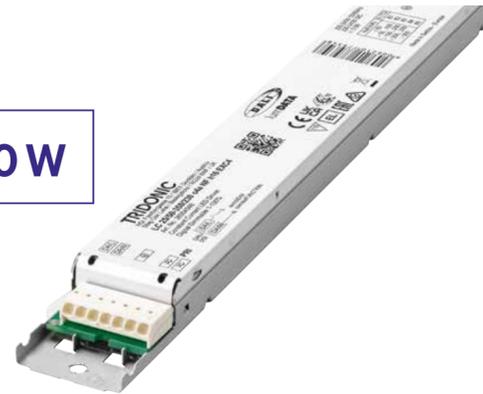
NFC)))

lumDATA

DALI 2

- Dimmable built-in constant current LED driver
- Dimming range 1 to 100 %
- For luminaires of protection class I and protection class II
- Up to 96.1 % efficiency

[> more](#)



EXC4 | Linear low profile

Dimmable

SELV

25 / 35 / 50 / 65 W

NFC)))

lumDATA

DALI 2

- Dimmable built-in constant current LED driver
- Dimming range 1 to 100 %
- For luminaires of protection class I and protection class II
- Up to 91.4 % efficiency

Available from December 2023



Indoor EXC4: not dimmable

For area and linear luminaires

EXC4 | Linear low profile

Not dimmable

non-SELV

25 / 40 / 60 / 90 / 120 W

NFC)))

- Constant current LED driver for luminaire installation
- For luminaires of protection class I
- Up to 95% efficiency
- Housing height only 16 mm

[> more](#)



EXC4 | Linear low profile

Not dimmable

SELV

25 / 35 / 50 / 65 W

NFC)))

- Constant current LED driver for luminaire installation
- For luminaires of protection class I and protection class II
- Up to 87% efficiency
- Housing height only 16 mm

[> more](#)



Indoor SNC4: not dimmable

For area and linear luminaires

SNC4 | Linear low profile

Not dimmable

non-SELV

25 / 35 / 50 / 65 W

- Constant current LED driver for luminaire installation
- For luminaires of protection class I
- Up to 89.5 % efficiency

[> more](#)



SNC4 | Linear low profile

Not dimmable

SELV

10 / 19 / 38 / 57 / 75 W

- Constant current LED driver for luminaire installation
- For luminaires of protection class I and protection class II
- Up to 89.5 % efficiency

[> more](#)



Have we whetted your appetite for more?

www.tridonic.com/generation4

TRIDONIC