LED emergency lighting system

Solutions for emergency lighting
We devote all our energy to your light.

Light. Exploring it, understanding it, and creating new lighting concepts – this is Tridonic’s core expertise. For more than 50 years we have been turning your ideas into light. Today, some 2,000 experts all over the world put in all their creativity to develop cutting-edge technologies to be used for the control and operation of innovative lighting systems; and they are doing it with great passion, in cooperation with you.
With 30 branch offices and partners at 73 locations all over the world, we are always close to you.

There are three things you may rely on when it comes to Tridonic: top-quality products, decades of expertise, and our commitment to flexibly support you.

Some 2,000 staff members all over the world use all their know-how and creativity to ensure that you are provided with the perfect light.

Each year, we devote more than 1,000 training days to the further education of those of our staff members that are vested with functions close to the market.

Tridonic’s extraordinary power of innovation is documented by a large number of patents and inventions.
“I want light that I can rely on.”

Peter M., facility manager in Frankfurt
Emergency lighting: Light that makes people feel safe. At all times.

A system is only as good as the weakest link of its chain. This is why we consider emergency lighting as a functional unity – from power supply to battery, from optimal use of the light source to easy integration into the lighting management and building management systems.

The complete solution – for your emergency lighting
Tridonic solutions for emergency lighting systems provide for safety in your building, even in case of a power failure.
Emergency lighting: a functional unity
Focused Tridonic competence

All over the world, Tridonic is a synonym for excellent products and services associated with perfect light. The company is impressive with a clearly arranged portfolio that will meet any requirement. With LED/OLED, LED converters and lighting management as core competencies – and with a view to the integration of emergency lighting, we are the right partner for electronic component solutions and systems.

**Everything from a single supplier**
At Tridonic, the competencies of various disciplines merge. We can provide you with the entire portfolio for solutions in the fields of general and emergency lighting: ballasts, LED, batteries and controls. This is what makes us a market leader in emergency lighting systems in Europe. Be assured: we can provide you with the components of escape sign luminaires, escape route lighting as well as anti-panic lighting that’s suitable for you – at the latest state of the art and in the reliable Tridonic quality that you have grown accustomed to.
Trust, but verify.
From development to production, we check even the most inconspicuous detail for reliability and efficiency. In operation, too, emergency lighting is given particular attention: our automatic monitoring and test equipment guarantees that standards and specifications are reliably met.

Power supply for emergency purposes
Various systems are eligible to supply emergency lighting installations with electricity in case of a power failure: separate battery, group battery, central battery, power generators or high-security mains.

Whether you opt for emergency lighting with decentralised separate battery solutions or for a group or central battery installation – with Tridonic components you will always be on the safe side. The comprehensive range comprises both DC voltage-compatible ballasts for group and central battery supply and separate battery-supplied emergency lighting units.
Emergency lighting: with good reason

Emergency lighting protects people against panic and accidents. It will fill in for general lighting in case of power failures.

When the general artificial lighting fails, orientation must still be ensured in buildings even for visitors. Accordingly, there are legal provisions governing the equipment and dimensioning of emergency lighting installations that will be activated when there is no mains voltage. According to international standards and in line with the relevant European Directives, emergency lighting is divided into safety lighting and secondary lighting.

### Safety lighting

Safety lighting must provide for a minimum brightness level to avoid panic in buildings and to allow for hazardous procedures to be completed and equipment to be turned off safely. Escape routes and safety devices must be clearly recognisable, thus enabling people to leave the premises quickly. Safety lighting breaks down into anti-panic lighting, escape route lighting and safety lighting for high-risk workplaces.

### Secondary lighting

Secondary lighting provides light in places where power failures will not cause any hazard, but where nevertheless work needs to be continued. For a limited period of time, it will assume the function of general lighting.
Anti-panic lighting
Anti-panic lighting is meant to avoid panic in case of a power failure and to enable the people in the building to clearly recognise escape routes. The required illumination level in the defined area is at least 0.5 lux.

Escape route lighting
Escape route lighting allows for safety devices to be recognised clearly and used safely. Escape routes must be illuminated across a width of 2 m. In doing so, an illuminance level of at least 1 lux along the center line for a path width of one metre must be guaranteed.

According to the EN 1838 standard, the ratio of highest to lowest illuminance must not exceed 40:1 for anti-panic and escape route lighting. The required illuminance level must be reached after no longer than 60 seconds. 50 per cent of the illuminance level, however, must be reached already after 5 seconds. The rated service time is at least one hour.

Emergency lighting for high-risk workplaces
Emergency lighting for high-risk workplaces must reach 10 per cent of the illuminance level required for the respective tasks or at least 15 lux after a maximum switch-on delay of 0.5 seconds. The ratio between highest and lowest illuminance must not exceed 10:1.
Light enables people to leave buildings safely, helps them to find their way round and reduces accident hazards. Accordingly, various national and international standards, regulations and directives govern the operator’s responsibility for reliable operation of the respective installations. What is required here is regular testing and function monitoring.

Three ranges: BASIC, SELFTEST and PRO

For the function test of the emergency lighting installation, Tridonic disposes of a ballast solution that is adequate both in economic and functional terms for each individual application – from manual testing of individual installations in the BASIC range, via integrated automatic test functions (SELFTEST range) through to central monitoring of the entire emergency lighting system in the PRO range.

Tridonic emergency lighting control gear with automatic test functions meet various testing and inspection algorithms according to the IEC 62034 standard. In the process, a random generator controls the start of the test cycles, thus preventing all batteries from being discharged at the same time and avoiding potential safety gaps. To ensure the right moment for running the annual system test, the switching status of the luminaires is permanently monitored. Based on this information, the annual system test can automatically be run at times when the rooms are not in use.
Emergency lighting operating modes

There are two operating modes for emergency luminaires: in maintained mode, they give light permanently, while emergency luminaires in non-maintained mode are only switched on in case of a power failure.

**Maintained mode**

As long as there is mains voltage, the LEDs are operated by the standard control gear in the power supply network. In case of a power failure, the LEDs are automatically supplied by the battery through an emergency lighting unit.

**Non-maintained mode**

If there is mains voltage, the LEDs will not give any light. In case of a power failure, the LEDs are automatically switched on by the emergency lighting unit and operated by means of the emergency supply (battery).
Systematic emergency lighting – by Tridonic
The right answer to any requirement

For emergency lighting, LEDs are increasingly gaining in importance. They are ideal for impressively efficient, and at the same time simple, emergency lighting solutions. Future-oriented solutions with perfectly matched components are generated from the combination of Tridonic’s many years of experience in the field of ballasts and the company’s innovative LED light sources.

Solutions for application-specific use
EM powerLED emergency lighting control unit + TALEX LED emergency lighting modules
LEDs are ideally suited for use in escape sign, escape route and anti-panic luminaires. In this field, Tridonic offers a wide range of LED modules for emergency lighting operation that boast impressively high system efficiency. Optics that are optimised for the respective application guarantee high illuminance levels combined with extremely compact dimensions.
Solutions with separate integrated emergency lighting LED
EM powerLED emergency lighting control unit + combined TALEX LED modules for general and emergency lighting

For use in luminaires for general lighting, Tridonic can provide you with a wide range of LED modules. The modules of the EM range feature defined LED light points for emergency lighting operation – and accordingly an integrated emergency lighting function.

As these LEDs are addressed separately, reliability is increased even further, and ageing effects avoided. Direct integration also reduces wiring effort.

LED control gear for general lighting
- e.g. TALEX converter LCAI

LED emergency lighting control gear
- e.g. EM powerLED 4 W

Combined LED module for general + emergency lighting
- e.g. STARK QLE EM
Universal solution for all LED modules
EM converterLED emergency lighting control gear + LED modules for general lighting

In the universal system, the LED modules that are also used for general lighting are switched by means of the emergency lighting control gear in case of an emergency.

This solution offers maximum flexibility: it is compatible with all LED modules and all LED gear components made by Tridonic and other manufacturers.

Combined solution for normal and emergency lighting operation
EM powerLED 4-channel emergency lighting control unit + LED modules for general lighting

The EM powerLED 4-channel LED emergency lighting control unit is the ideal solution for a cost-optimised structure of the emergency lighting installation. It integrates the LED control unit for mains operation (four channels) and the emergency lighting function (one channel) in one assembly.
Emergency lighting solutions by Tridonic
Complete and standard-compliant

Tridonic offers a diverse range of complete emergency lighting solutions for separate battery-supplied emergency lighting installations – for different requirements and LED modules – that perfectly match the requirements of the various country-specific standards. Here you will find both entirely straightforward and highly sophisticated solutions. The range extends from cost-optimised through to high-end emergency lighting systems.

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The specifications of the individual products are available at www.tridonic.com/emergency
The characteristic features of Tridonic emergency lighting control units are small dimensions and extremely flexible applications. Apart from the operation of powerful individual LED light points, they are also able to actuate several LED points with a lower individual rating. The entire range of LED emergency lighting control gear has been designed for operation with environmentally friendly NiMH batteries. The unique intelligent multi-level charging circuit provides for quick and gentle charging of the batteries.

EM powerLED 1 W and 2 W may be used in maintained mode and in non-maintained mode. They are accordingly suited for both maintained operation in escape sign luminaires or for minimum lighting at night as well as in safety luminaires with a low to medium rating. EM powerLED is available with 1, 2 and 4 W.

EM powerLED BASIC
Compact and efficient
EM powerLED BASIC is a high-grade emergency lighting control unit offering maximum reliability for the operation of 1 to 2 LEDs in a row within minimum space (cross-section of 21 × 30 mm).

EM powerLED SELFTEST
Automatic testing and monitoring
EM powerLED SELFTEST works independently and automatically runs all function tests and annual system tests as well as the control of the batteries. The result is displayed by the two-coloured status LED.

EM powerLED PRO
Integration into a DALI system
The top high-tech product of the range – EM powerLED PRO – boasts unrestricted DALI compatibility and numerous impressive features, including the patented addressing system allowing for simple control of DALI emergency lighting control gear in any installation.

The specifications of the individual products are available at www.tridonic.com/emergency
EM powerLED 4-channel
Combined control gear for general lighting and emergency lighting operation
The EM powerLED 4-channel LED emergency lighting control unit is the smart solution for the cost-optimised structure of an emergency lighting installation. It integrates the LED control gear for mains operation (four channels with 250 mA, 300 mA or 350 mA) and the emergency lighting function (one channel).

EM powerLED BASIC 4-channel has been designed to be installed in luminaires and to be used with the TALEX STARK QLE and LLE LED modules. A simple CORRIDOR FUNCTION (CF) with a lighting level of 10 per cent is integrated, too.

▼ At a glance: EM powerLED 4-channel
- Emergency lighting function for manual testing
- 4 channels in mains and 1 channel in emergency operation
- Integrated simple CORRIDOR FUNCTION (CF)
- Constant current operation for constant lighting result
- SELV for output voltage < 60 V DC
- Combined gear for mains and emergency lighting operation
- Maintained and non-maintained mode
- For application with STARK QLE and LLE
The rapid growth of LED technology within the lighting sector has created need for suitable emergency lighting systems for luminaires. Thanks to power control in emergency operation, the slim, transparent range of the EM converterLED product group offers utmost flexibility for a number of combinations of LED light sources with converters by Tridonic and other renowned manufacturers.

As a control unit for non-maintained mode, EM converterLED is used in combination with standard and dimmable converters. It is available as SELV and Non-SELV versions and with different functions. According to SELV classification, versions with a maximum output voltage of 60 V, 120 V and 200 V are available.

**EM converterLED BASIC**
Cost-optimised and efficient
EM converterLED BASIC offers fundamental emergency lighting functions for cost-optimised emergency lighting solutions. National test standards for emergency lighting applications are implemented manually; test results must be manually documented.

**EM converterLED SELFTEST**
Local monitoring
EM converterLED SELFTEST features a decentralised selftest function in compliance with national standards for emergency lighting applications. Typically, the test results will be displayed at the luminaire by means of a two-coloured LED; the results are documented manually.

**EM converterLED PRO**
Central monitoring via DALI
EM converterLED PRO features a selftest function in compliance with national standards. The test procedures and test sequences as well as the documentation of test results are managed through a central DALI system.

The specifications of the individual products are available at www.tridonic.com/emergency
**EM converterLED**

One housing format for all

The housing concept for the EM converterLED range with fixed dimensions for length, width and height (179 x 30 x 21 mm) provides luminaire manufacturers with the possibility to scale and extend their luminaire ranges with different emergency lighting functions, without having to change the mechanical design and holes of their luminaires.

▼ **At a glance: EM converterLED**

- Can be combined with dimmable and non-dimmable converters for maintained operation
- Can be used flexibly in combination with LED modules by Tridonic or other renowned manufacturers
  - Basic, Selftest and DALI-addressable versions
- For medium to high LED performance
- Constant current operation for constant lighting result
- SELV and Non-SELV versions
As compared to fluorescent luminaires, LEDs boast high system efficiency – even at low ambient temperatures. They can be switched on and off as often as necessary, immediately producing full light output. These are ideal conditions for emergency lighting systems with their regular tests and monitoring routines. Due to its compact size, the environmentally friendly LED also offers more flexibility.

TALEXmodule EMERGENCY (EM) feature an optic ideally matched to the respective application. In spite of its extremely compact size and highly energy-efficient operation, it thus guarantees illumination in conformity with applicable standards.

**TALEXmodule EM-AP**
For anti-panic luminaires
The unique design of the TALEXmodule EM-AP light source ensures optimal light point spacings for anti-panic luminaires with minimal energy consumption. At a light point spacing of 10.4 m, it illuminates rooms with a height of 3 m at the required level of 0.5 lux.

**TALEXmodule EM-ER**
Illumination of escape routes
TALEXmodule EM-ER has been optimised for the tasks in escape routes. A special optic creates very long, slender strips of light. Light point spacings of 10 m are sufficient to illuminate rooms of a height of 3 m at a level of 1 lux.

**TALEXmodule EM-ES**
For escape sign luminaires
For uniform illumination of exit signs or escape signs, Tridonic offers convenient LED strips that make an excellent contribution to safety energy consumption of only 1 W for over 50,000 hours. Different models are available for the various luminaires, with the length and number of LEDs varying. EM powerLED emergency lighting control gear provide for reliable operation.

The specifications of the individual products are available at www.tridonic.com/emergency
Module EM-ES for uniform illumination of escape signs.

At a glance: TALEXmodule EMERGENCY

- LED modules for anti-panic and escape route luminaires
- LED of the latest generation
- Long service life thanks to optimal thermal management
- Low energy consumption
- Easy installation in luminaires and housings
- Wide range of applications
TALEXmodule STARK EM
Reliable, bright – and highly functional

TALEXmodule STARK SLE EM
LED modules of the latest generation
Due to the circular, compact design with powerful lumen packages, the TALEXmodule STARK SLE product range opens up a new dimension of flexibility. For the emergency lighting modules, the LED light points are supplemented by separate LEDs for emergency lighting operation (SLE EM). Via switches or via DALI, these can be actuated independently from the remaining LEDs for orientation and safety lighting.

The reliable LED module is suitable both for downlights and for spotlights with uniform light distribution. In interiors, colour temperatures of 3,000 K and 4,000 K as well as a colour rendering index CRI > 80 enhance lighting quality, while in outdoor areas the versions with 5,000 K and a CRI > 70 are particularly impressive on account of their high efficiency.

TALEXmodule STARK CLE EM, QLE EM and LLE EM
Flexible LED system solutions
By combining the octagonal, square and linear LED modules at will, it is very simple to integrate efficient LED technology into existing luminaire designs. At the same time, new design concepts can be implemented – regardless of the optic fitted, for LED system solutions are suitable for all systems, from wide-area luminaires to recessed luminaires. With their high colour rendering, warm white and intermediate colour temperatures, they are an equivalent alternative, in terms of quality, to traditional fluorescent lamps.

Another positive feature is their energy balance: excellent system efficiency of up to 165 lumens per watt results from the high energy efficiency of the LED modules and the perfectly matching converters. For emergency lighting operation, the respective emergency version of these modules is fitted with separate LED light points.

The specifications of the individual products are available at www.tridonic.com/emergency
TALEX® module of the EM range
LED modules with separate emergency lighting LEDs
TALEX® module STARK SLE EM, QLE EM, CLE EM and LLE EM are modules for general lighting fitted with additional separate LEDs for the emergency lighting function.

At a glance:
LED modules with emergency lighting LEDs

- Minimum ageing of the emergency lighting LEDs
- Increased reliability
- Hardly any impact on normal lighting during function tests
- Easy wiring
- Full compatibility
- Independent from voltage and output of the main LEDs
- Extra LEDs may also be used for simple CORRIDOR FUNCTION or for safety lighting at low lighting levels.
Simple control is the great advantage of the Tridonic emergency lighting system: installation is done quickly, and all tests are run automatically at the right time.

The x/e-touch emergency lighting concept by Tridonic offers an optimum solution for any application. It has been designed for small and large-networked emergency lighting systems with up to 3,000 emergency lighting control units. Additionally, it is possible to link the emergency lighting to a central monitoring system via Ethernet.

And the best part is: emergency lighting management based on x/e-touch can be scaled up and expanded almost at will. It is therefore extremely future-proof, and you can perfectly adjust the system to the respective requirements and needs. Maximum flexibility is achieved through the optional use of the control system for general lighting or emergency lighting. Upon commissioning, you can define the functionality of the panels yourself.

DALI x/e-touchPANEL 02
DALI emergency lighting management
Simple, reliable, and scalable to any project size

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DALI x/e-touchPANEL 02
Basis for comprehensive emergency lighting management
The new x/e-touchPANEL 02 combines safety with comfort and flexibility: with an enlarged screen and higher resolution, up to 120 emergency lighting control units are now managed even more conveniently.

Keep a clear view conveniently
The 7-inch touch screen conveniently displays the emergency lighting systems. If an error occurs anywhere in the installation, it will be displayed clearly and visibly on the touch panel. Each individual component can be accessed at the press of button; a simple navigation system safely guides the user through control and management.

The specifications of the individual products are available at www.tridonic.com/emergency
**At a glance: DALI x/e-touchPANEL02**

- Flexible control system for general and emergency lighting
- Two DALI circuits (120 DALI emergency lighting control units)
- IrDA, USB and Ethernet interface
- Two addresses for external status display
- Remote control via standard Internet browser or EM LINK software

**EM LINK**

Efficiently linked emergency lighting

With a few mouse clicks, you can control more than 3,000 individually addressable emergency lighting control units: EM LINK links up to 25 x/e-touchPANEL 02 via Ethernet. The status of all devices can be monitored on a computer-aided basis. The test logs can be collected, stored and printed.
The proper function of an emergency lighting installation not only depends on reliable control gear – but, to a great extent, on the quality of the batteries used. Due to continuous charging and high temperatures, the batteries used for emergency lighting installations are subject to demanding conditions during normal operation and they must provide full output at the times they are needed most urgently. Tridonic batteries have been specifically tested for this task, and have been designed for a service life of at least four years in maintained operation at high temperatures and constant charging.

Tridonic batteries have been developed and tested according to the most stringent standards applicable to emergency lighting installations.

Batteries
High quality for sophisticated applications
Batteries for any application

For the wide range of emergency lighting control gear, both NiCd and the more environmentally friendly NiMH batteries are offered. The charge controllers of these compatible devices were designed specifically for both technologies either with electronically regulated charging circuits or with the latest multi-level charge controllers to guarantee the least possible energy consumption combined with optimal battery service life.

▼ At a glance: batteries by Tridonic

- High-grade batteries made by internationally renowned manufacturers
- High-temperature cells with long service life according to the latest battery technology
- NiCd for optimal efficiency
- NiMH for optimal energy density and extremely small dimensions
- Various configurations for any application

The specifications of the individual products are available at www.tridonic.com/emergency
Close light

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

AUSTRALIA
Tridonic Australia Pty Ltd
P.O. Box 120
Kingsgrove 2208
Australia
T +61 2 9503 0600
F +61 2 9503 0688
www.tridonic.com.au
enquiries@tridonic.com.au
Tridonic Australia Pty Ltd
Private Bag No. 9
130 Melrose Drive,
3043 Tullamarine, Victoria
Australia
T +61 3 9339 0200
F +61 3 9330 3595
www.tridonic.com.au
enquiries@tridonic.com.au
Tridonic (Shanghai) Co., Ltd.
Guangzhou Branch
505, R&F Profit Plaza,
76 Huangpu Xi Road, Tianhe District
Guangzhou, 510623, China
T +86 20 38390483
F +86 20 38392482
www.tridonic.com
china@tridonic.com
Tridonic (Shanghai) Co., Ltd.
(Headquarters)
Building 3, 799 West Tianshan Road
Shanghai, 200335, China
T +86 21 52400599
F +86 21 52400230
www.tridonic.com
china@tridonic.com

FRANCE
Tridonic France
34 Rue de l’Expansion
67150 Eistert, France
T +33 3 88 59 62 70
www.tridonic.fr
info@tridonic.fr

GERMANY
Tridonic Deutschland GmbH
Edsionalee 1
89231 Neubulring, Deutschland
T +49 731 176625-19
F +49 731 176625-12
www.tridonic.com
vertrieb.deutschland@tridonic.com
Tridonic Dresden GmbH & Co KG
Manfred-von-Arcine-Ring 20, Haus F
01099 Dresden, Deutschland
T +49 351 795 975-19
F +49 351 795 975-12
www.tridonic.com/oled
www.tridonic.com/dresden@tridonic.com

INDIA
Alco Controls (India) Pvt. Ltd.
38B Nariman Bhavan,
Nariman Point
Mumbai, 400 021, India
T +91 22 2226 5228
F +91 22 2226 3204
www.tridonic.com
sales@alcocontrols.com

ITALY
Tridonic Italia srl
Viale della Navigazione
Innira, 115
35027 Noventa Padovana
Italy
T +39 049 89 45 127
F +39 049 87 04 715
www.tridonic.it
ventidite.itali@tridonic.com

MIDDLE EAST
Tridonic Middle East (FZE)
P. O. Box 17972
Jebel Ali Free Zone
Dubai, United Arab Emirates
T +971 4 8833664
F +971 4 8833665
www.tridonic.com
sales.middleeast@tridonic.com

NEW ZEALAND
Tridonic NZ Ltd.
Airport Oaks Mangere
PO Box 107044
9 Airtree Ave
Auckland, New Zealand
T +64 9 256 2310
F +64 9 256 0109
www.tridonic.com
sales@tridonic.co.nz

POLAND
Tridonic Rep. Office Poland
Poland
T +48 67 222 60 07
www.tridonic.com
marek.michalski@tridonic.com

RUSSIA
Tridonic Rep. Office Russia
Russia
T +7 916 210 9156
www.tridonic.com
michael.ekassov@tridonic.com

SINGAPORE
Tridonic South East Asia Pte Ltd
10 Tannery Lane #03-01
34773 Singapore
Singapore
T +65 62932184
F +65 62933700
www.tridonic.com
asean@tridonic.com

SOUTH AFRICA
Tridonic SA (Pty) Ltd
53-57 Valdwyyn Road,
Hughes Extension,
Jet Park, 1459
South Africa
T +27 11 923-9686
F +27 11 923-9684
www.tridonic.com
info@tridonic.co.za

SPAIN
Tridonic Iberia, S.L.
Distribución – Barcelona
Calle Pau Vila nº 13-15, 3º
Polígono IV del Plan Especial
de Ordenación San Mamet
08173 Sant Cugat del Vallés (Barcelona)
Spain
T +34 935 878 628
F +34 935 903 297
www.tridonic.es
ventas@tridonic.com

Tridonic Iberia, S.L.
ÓFICINA CENTRAL – MADRID
Calle Carpenteros nº 8, 2a
Polígono Industrial Pinares Llanos
28670 Villaviciosa de Odón (Madrid)
Spain
T +34 916 162 095
F +34 916 165 695
www.tridonic.es
ventas@tridonic.com

SWITZERLAND
Tridonic Schweiz AG
Obere Allmeind 2
8755 Ennenda, Schwetz
T +41 55 6454747
F +41 55 6454700
www.tridonic.ch
vertrieb.schweiz@tridonic.com

TURKEY
Tridonic Aydınlatma TİC.LTD. ŞTI.
Kemalkçe Mah., Necatibey cad.
Akçe Sok., Akçe Han 10
TR-34420 Karaköy / Beyoğlu
Aydınlatma TİC.LTD. ŞTİ.
TURKEY

UNITED KINGDOM
Tridonic UK Limited
Unit 7 Lindwood
Chineham Business Park
Crockford Lane
Chineham
Basingstoke RG24 8QY
Hampshire
F +44 1256 376329
www.tridonic.co.uk
enquiries.uk@tridonic.com

USA
TRIDONIC Inc.
1305 Lakes Parkway
Suite 101
Lawrenceville, GA 30043, USA
Toll-free: 1-866-TRIDONIC
F +1 760 382 6320
www.tridonic.com
guido.walther@tridonic.us

▼ Details
For further information, data sheets, product catalogues and ordering details, please go to www.tridonic.com
The natural light
ecolution – the ecologically solution for our customers

Tridonic pursues an integral sustainability concept and takes its responsibility seriously – with regard to staff members and customers as well as in terms of the environment and society. Within the scope of this integral sustainability concept, our ecolution initiative provides added value in terms of sustainability and energy efficiency which we offer to our customers:

- Tridonic’s technological innovations help our customers save energy and resources
- Maximum quality and safety levels ensure that Tridonic customers are always on the safe side
- Excellent customer service and premium advisory skills ensure perfect system solutions

Energy savings through technological innovation
Our innovative energy-efficient products and lighting management solutions help to save resources – for the benefit of both the environment and your business success. We provide you with component solutions that have been sustainably developed and manufactured and form the basis for state-of-the-art lighting systems which help to save a lot of energy and, accordingly, of CO₂. Naturally, without any sacrifice in perfect convenience and lighting quality.

Maximum quality and safety
Tridonic stands for uncompromising quality, impeccable products and flawless processes. For us it is a matter of course that all applicable provisions and regulations are observed. As a response to your questions regarding our products’ environmental data, we have made certified environmental product declarations available.

Excellent customer service and advisory skills
Good advice requires professional product know-how and lots of experience. We provide further education to our staff on a regular basis – a must in times of new technologies and ever-shorter development cycles. Supported by numerous tools, we provide you with designs, visualisation, advice and inspiration. This enables us to find the best solutions for your requirements and demands – with regards to both economic and environmental aspects.
Light.
Exploring it, understanding it, and creating new lighting concepts – this is Tridonic’s core expertise. For more than 50 years we have been turning your ideas into light. Today, some 2,000 experts all over the world put in all their creativity to develop cutting-edge technologies to be used for the control and operation of innovative lighting systems; and they are doing it with great passion, in cooperation with you.

We devote all our energy to your light.

Further information and ordering data:

TALEX LED product catalogue

Data sheets available at www.tridonic.com, „Technical data“ menu