



*THE NEXT LEVEL OF
EXPLOSION PROTECTION.*



THE STRONGEST LINK.

STAHL

STATE-OF-THE-ART LIGHTING SOLUTIONS FROM THE SAFETY EXPERTS

LED technology for a luminous outlook in hazardous areas

R. STAHL: LIGHTING THE WAY WITH APPROPRIATE EXPLOSION PROTECTION

Good visibility keeps you safe while working, which is all the more important in hazardous areas. In locations such as refineries, oil drilling platforms, chemical plants, clean rooms, machine building and systems engineering, it is highly essential to have clear vision. To achieve this, you need electric lighting. Conventional industrial light fittings, however, do not meet the strict safety requirements that apply to hazardous areas.

R. STAHL is one of the world's only specialist providers, making us your ideal partner for explosion-protected lighting solutions. We combine expertise and experience in a variety of explosion protection technologies to offer the perfect solution for your plant or factory.

With our vast and proven experience, we offer technically sound and commercially viable consultation to our customers on the lighting design based on their requirements. R. STAHL's factory sites in Weimar and Chennai are the two centres of excellence, where lighting technology for a vast array of different applications is designed, developed and produced. The sophisticated products available from our range comprises of the classic linear luminaires, pendant light fittings and floodlights apart from signal beacons and emergency lighting, catering to a wide spectrum of industrial lighting needs in hazardous areas.

Our objective is to provide system engineers and operators with long-lasting solutions that can be used safely anywhere in the world under various operating conditions and require very little maintenance.



Comprehensive light fitting portfolio – for all your requirements

The diversity of R. STAHL's product range ensures that we have the perfect solution for you, whatever your lighting needs are. We are competent to devise solutions for any industry, anywhere in the world!



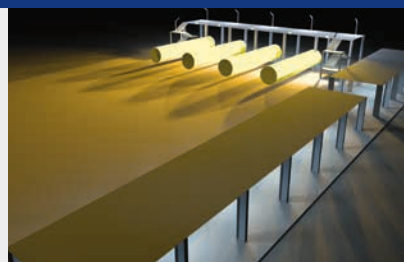
The latest in LED technology – efficient long-lasting solutions

Our extensive expertise in LED technology ensures that all avenues are open to you when it comes to state-of-the-art, energy-efficient lighting solutions that require minimal maintenance.



Lighting design – tailored, economic, approved solutions

By means of judicious lighting design, we ensure that both inside and outside spaces are illuminated in accordance with the relevant directives. This also includes escape route lighting.



Emergency lighting systems – safety instead of darkness

R. STAHL manufactures self-contained light fittings and emergency luminaires that can be powered by our central battery system. Besides central batteries, we also supply group battery systems to power emergency lighting in accordance with the relevant standards.



SAFE, LONG-LASTING LIGHTING WITH LED TECHNOLOGY

The economic benefits coupled with technical advantages explain the ever-increasing popularity of LED technology. For example, the service life of LEDs exceeds the values for conventional light sources by many folds. And since we consider the service life of the light fittings as a whole – that is to say, the LEDs in conjunction with the electronics and the complete mechanical structure – you save both time and money in terms of maintenance expenditure.

Additionally, our LED light fittings are incredibly robust and resistant to vibrations, and are designed to withstand extreme temperature conditions. These high-quality products easily cope with temperatures ranging from -55°C to $+60^{\circ}\text{C}$, which makes them ideal for use in harsh industrial environments.

Highly efficient light-emitting diodes provide excellent luminous efficacy: supplying up to 180 lm/W, the LED is nearly ten times as efficient as a halogen lamp. Besides efficiency, we also strive to achieve the best possible colour rendering. Our light fittings comply fully with the requirements set out in EN 12464. The R_a value of the products is generally 80 or more.

Apart from the colour rendering value, the colour temperature for white light is also important. There is a choice of three basic colour temperatures for each of R. STAHL's light fittings. Ensuring optimal catering to the requirements of different regions, industries and applications, we offer neutral white (5,000 K), cool white (6,500 K) and warm white (4,000 K) variants.



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COMPLETE PORTFOLIO TO FULFIL ALL YOUR LIGHTING NEEDS

R. STAHL supplies explosion-protected lighting for almost any application, such as general lighting, pendant light fittings,

floodlights, hand lamps and emergency luminaires. In addition to these standard solutions, we are also your contact partner for

custom complete solutions in the field of lighting technology.

LED

GENERAL LIGHTING



PENDANT LIGHT FITTINGS



CONVENTIONAL



LOODLIGHTS



HAND LAMPS



EMERGENCY LUMINAIRES



GENERAL LIGHTING AND EMERGENCY LIGHTING

Linear luminaire EXLUX series 6002/2 version IIC

LED

WebCode 6002C



5,200 lm +60 °C Zone 1/21
 For LED version. 2,350 lm -40 °C Zone 2/22

The EXLUX 6002 can be fitted to the ceiling, a pole or, alternatively, it can be suspended. It is suited to general indoor and outdoor lighting applications, as well as indoor and outdoor emergency lighting. It is the perfect replacement for luminaires that use fluorescent lamps, since efficient LED technology with high luminous efficacy delivers the same brightness for less energy.

- Features long-life, efficient, LED technology (up to 115 lm/W).
- Quick and easy to install, with universal installation accessories.
- Lightweight yet robust, with an impact strength of IK10.

Emergency luminaire EXLUX series 6009/1 version IIB+H2

LED

WebCode 6009B/6009C



5,775 lm +60 °C Zone 1/21
 For LED version. 2,440 lm -30 °C Zone 2/22

EXLUX 6009 series luminaires are designed to provide emergency lighting. They can be used in Zone 1 and 21 hazardous areas with gas groups IIB+H2 and IIC.

- Emergency luminaire suitable for wall mounting, ceiling mounting, suspending or fitting to a pole.
- Central lock.
- Weekly functional test and annual rated operating time test.

Tubular light fitting series 6036

LED

WebCode 6036A



5,360 lm +70 °C Zone 1/21
 For LED version. 850 lm -55 °C Zone 2/22

The 6036 series compact LED tubular light fitting is ideal for general lighting applications and for use as machine lighting, even in relatively inaccessible places. This light boasts a long service life of up to 80,000 hours (at maximum ambient temperature), thanks to its use of energy-efficient LED technology. Due to its robust construction, it can withstand extreme temperature ranges between -55 °C and +70 °C.

- Degree of protection IP66/67, IP68.
- Resistant to vibrations, lightweight, robust (impact strength of IK10) and maintenance-free.
- Low start-up current ensures that a large number of light fittings can be connected to a single breaker.

Linear luminaire for fluorescent lamps EXLUX series 6001

WebCode 6001A



+60 °C Zone 1/21
-30 °C Zone 2/22

This light fitting is suitable for both standard lighting applications and emergency lighting applications in virtually any facility. With very little effort, using the accessories it can be fitted to the wall, ceiling or a pole or, alternatively, it can be suspended. The practical central lock has a safety switch that disconnects the power supply at all poles when the plastic enclosure is opened.

- Uses 2 fluorescent lamps: 18 W, 36 W, 58 W.
- Features an ergonomically designed central lock and a circuit breaker that disconnects all phases.
- Incredibly low maintenance, lightweight and robust (impact strength of IK10).

Emergency luminaire for fluorescent lamps EXLUX series 6009/5

WebCode 6009A



+60 °C Zone 1/21
-30 °C Zone 2/22

This luminaire is designed to provide emergency lighting. It is lightweight and requires little maintenance. The battery in the external enclosure ensures that the emergency lighting lasts for 1.5 or 3 hours. An internal protective circuit provides full redundancy, should the lamp fail. When the central lock is opened, the luminaire is always disconnected from the power supply at all poles.

- Uses 2 fluorescent lamps: 18 W, 36 W.
- Features an ergonomically designed central lock and a circuit breaker that disconnects all phases.
- Weekly functional test and annual light duration test of the emergency lighting.

GENERAL LIGHTING AND EMERGENCY LIGHTING

Linear luminaire EXLUX series 6402/2

LED

WebCode 6402B



6,800 lm +55 °C Zone 21



*For LED version.

2,550 lm*

-30 °C

Zone 2/22

The EXLUX 6402/2 luminaire can be fitted to the ceiling, a pole or, alternatively, it can be suspended. It is suited to general lighting applications in harsh environments. A bright light for not much energy is what you get with this efficient LED technology, which offers the added benefit of increased service life – this can be as much as 100,000 hours.

- Quick and easy to install, with universal installation accessories.
- Lightweight yet robust, with an impact strength of IK10.
- Features long-life, efficient, LED technology (up to 115 lm/W).

Emergency luminaire EXLUX series 6409/1

LED

WebCode 6409B



6,800 lm +60 °C Zone 21



*For LED version.

2,550 lm*

-30 °C

Zone 2/22

EXLUX 6409 series luminaires are perfect for emergency lighting applications (Zones 2 and 21). These luminaires provide lighting in accordance to the relevant standards for 90 or 180 minutes in the event of a power failure. With very little effort, these can be fitted to the wall, ceiling or a pole or, alternatively, be suspended. The LED technology boasts high luminous efficacy and longer service life.

- Long-life LED technology with an efficiency of up to 115 lm/W.
- Central lock.
- Weekly functional test and annual rated operating time test.

Linear luminaire for fluorescent lamps EXLUX series 6401

WebCode 6401A



+60 °C Zone 21
-30 °C Zone 2/22

The EXLUX 6401 series is suited to standard indoor and outdoor lighting applications, as well as indoor and outdoor emergency lighting. With very little effort, using the accessories it can be fitted to the wall, ceiling or a pole or, alternatively, it can be suspended. The practical central lock is available with an optional switching element that disconnects the power supply at all poles when the plastic enclosure is opened.

- Uses 2 fluorescent lamps: 18 W, 36 W, 58 W.
- Quick and easy to install, with universal installation accessories.
- Incredibly low maintenance, lightweight and robust (impact strength of IK10).

Emergency luminaire for fluorescent lamps EXLUX series 6409/5

WebCode 6409A



+50 °C Zone 21
-30 °C Zone 2/22

The EXLUX 6409 series is designed to provide emergency lighting. It is lightweight and requires little maintenance. An external battery will power the emergency lighting for 1.5 or 3 hours. If one lamp is faulty, the luminaire switches immediately to the working lamp. When the luminaire or battery case is opened, the battery circuit is disconnected. The robust plastic enclosure is easy to open thanks to the practical central lock.

- Uses 2 fluorescent lamps: 18 W, 36 W.
- Features an ergonomically designed central lock.
- Weekly functional test and annual rated operating time test.

GENERAL LIGHTING AND EMERGENCY LIGHTING

Linear luminaire ECOLUX METAL series 6010

LED

WebCode 6010A/new



The ECOLUX METAL 6010 series linear luminaire is suited for standard lighting applications, particularly offshore applications and on ships. In no time at all and with very little effort, it can be fitted to the wall or ceiling. And thanks to the quick locking devices, the translucent cover is easy to open.

- Can be used in Ex Zones 1, 2, 21, 22 and on ships.
- 2 fluorescent lamps: 18 W, 36 W or LEDs: 28 W, 52 W.
- Enclosure made from sheet steel or SS304/SS316L stainless steel (suitable for marine environments).

4,850 lm +60 °C Zone 1/21

 2,600 lm* -20 °C Zone 2/22

*For LED version.

Linear luminaire lamps ECOLUX METAL series 6610

LED

WebCode 6610A/new



The ECOLUX METAL 6610 series can be used for general lighting applications or as an emergency luminaire powered by a group battery system or central battery system. The enclosure can be made from sheet steel or stainless steel. The SS316L stainless steel variant is particularly well suited to marine applications.

- 2 fluorescent lamps: 18 W, 36 W or LEDs: 28 W, 52 W.
- Quick locking devices for rapid installation and maintenance.

5,300 lm +60 °C Zone 21

 2,600 lm* -20 °C Zone 2/22

*For LED version.

Linear luminaire series 6012

LED

WebCode 6012A/6012C



The 6012 series luminaires are an excellent choice for illuminating spray booths and paint shops and clean rooms. Their suitability for these applications is owed to their extra-flat design, as they do not require a significant mounting depth. The LED technology boasts high luminous efficacy and longer service life.

- 2 or 4 fluorescent lamps: 18 W, 36 W or 58 W or LEDs: 28 W, 52 W.
- Central lock for opening and closing the luminaire plus a safety switch that disconnects the power supply at all poles when the luminaire is opened.
- Enclosure made from powder-coated sheet steel or stainless steel.

4,600 lm +60 °C Zone 1/21

 2,200 lm* -40 °C Zone 2/22

*For LED version.

Linear luminaire for fluorescent lamps series 6014/1

WebCode 6014B



The 6014 series linear luminaires have two or four fluorescent lamps and are often used for applications such as lighting spray booths and paint shops. You will find that their robust construction means that they require minimal maintenance. With the right accessories, these luminaires are easy to install in a wide variety of different ways in no time at all.

- 2 or 4 fluorescent lamps: 18 W, 36 W or 58 W.
- Central lock for opening and closing the luminaire plus a safety switch that disconnects the power supply at all poles when the luminaire is opened.
- Enclosure made from powder-coated sheet steel or stainless steel.

Linear luminaire series 6412

LED

WebCode 6412B/6412C



The 6412 series linear luminaires are ideal for applications such as lighting spray booths and paint shops. The extra-flat design of the powder-coated sheet steel or stainless steel enclosure means that they do not require a deep recess. They take no time at all and very little effort to fit, and can be configured as a recessed light or, alternatively, suspended. And thanks to the practical central lock, they are easy to open and close.

- Versions with fluorescent lamps or LEDs.
- Central lock.
- Extremely flat design for shallow mounting depths.

Linear luminaire for fluorescent lamps series 6414/1

WebCode 6414B



The 6414 series linear luminaires have two or four fluorescent lamps and are also suited to applications such as lighting spray booths and paint shops. Their robust construction confirms that they require minimal maintenance. With the right accessories, these high-quality luminaires are easy to install in a wide variety of different ways in no time at all.

- 2 or 4 fluorescent lamps: 18 W, 36 W or 58 W.
- Central lock for opening and closing the luminaire.
- Enclosure made from powder-coated sheet steel or stainless steel.

EMERGENCY LUMINAIRES

Escape route sign luminaire C-LUX series 6102/6109

LED

WebCode new



The 6102 and 6109 series luminaires are optimised for backlighting escape route signs in accordance to ISO 7010. Different versions of the luminaire are available: a basic version, a version with an address module that can be powered by a central battery system, and a version with an integrated battery for use in an installation's emergency lighting system. Without the symbol display panel, the luminaire can also be used as a compact light fitting for illuminating specific areas, escape routes or danger zones.

- Can be used universally for both indoor and outdoor applications.
- Versatile: Can be used to display the different signs and symbols in accordance to ISO 7010.
- Integrated battery allows it to be operated independently of the mains power supply for up to 90 minutes.

Compact light fitting series 6114

WebCode 6114B



The 6114 series compact light fittings can be used for standard lighting applications – alternatively, if used in conjunction with symbols or other markings, they can be used as illuminated signs or as emergency luminaires powered by a group battery system or central battery system. They are available as pendant light fittings, wall-mountable light fittings or recessed light fittings, and in a choice of powder-coated sheet steel or stainless steel.

- 1- or 3-lamp versions.
- Central lock.
- Power supply disconnected at all poles by means of a positive-opening switching element when the luminaire is opened.

Compact emergency light fitting series 6118

WebCode 6118B



The 6118 series single-lamp compact emergency luminaire is made from powder-coated sheet steel or V4A stainless steel and is ideal for spray booths, paint shops and clean rooms. If used in conjunction with symbols or other markings, they can be used as illuminated signs or escape route luminaires. The integrated battery will power the luminaire for 1.5 or 3 hours. The luminaire automatically conducts a weekly functional test.

- Central lock.
- Total discharge protection and charging voltage limitation.
- For 8 W fluorescent lamps.

Emergency luminaires for fluorescent lamps ECOLUX METAL series 6016/1

WebCode 6016A



+60 °C Zone 1/21
-20 °C Zone 2/22

The ECOLUX METAL 6016 series emergency luminaire has two fluorescent lamps and is particularly well suited for offshore applications and for use on ships. In no time at all and with very little effort, it can be fitted to the wall or ceiling.

- 2 fluorescent lamps: 18 W, 36 W.
- Enclosure made from sheet steel or SS304/SS316L stainless steel (suitable for marine environments).
- Weekly functional test and annual rated operating time test.

Emergency luminaires series 6018

WebCode 6018A



+60 °C Zone 1/21
-20 °C Zone 2/22

The 6018 series emergency luminaire with a variety of installation options can be used as safety lighting with emergency light function for up to 180 minutes of emergency lighting operation in environments such as spray booths, paint shops and clean rooms.

- 2 fluorescent lamps: 18 W, 36 W.
- Enclosure made from powder-coated sheet steel or stainless steel.
- Weekly functional test and annual light duration test of the emergency lighting.

Emergency luminaires for fluorescent lamps ECOLUX METAL series 6616/1

WebCode 6616A



+60 °C Zone 21
-20 °C Zone 2/22

The ECOLUX METAL 6616 series emergency luminaire has two fluorescent lamps and an integrated battery for the emergency light mode that provides up to 180 minutes of operating time. It is particularly well suited for offshore applications and for use on ships.

- 2 fluorescent lamps: 18 W, 36 W.
- Enclosure made from sheet steel or SS304/SS316L stainless steel (suitable for marine environments).
- Weekly functional test and annual light duration test of the emergency lighting.

Emergency luminaires series 6418/1

Web Code new



+60 °C Zone 21
-20 °C Zone 2/22

This sheet steel emergency luminaire has a variety of installation options. The integrated battery ensures that the emergency lighting lasts for up to 180 minutes. When the emergency lighting is in operation, if one fluorescent lamp is faulty, the luminaire automatically switches to the working lamp.

- 2 fluorescent lamps: 18 W, 36 W.
- Enclosure made from powder-coated sheet steel or stainless steel.
- Weekly functional test and annual light duration test of the emergency lighting.

PENDANT LIGHT FITTINGS



9,200 lm +70 °C Zone 21
 2,200 lm* -55 °C Zone 2/22

*For LED version.

Multipurpose luminaire series 6050/6

LED

WebCode 6050C

The 6050/6 series multipurpose luminaire is the most reliable and flexible lighting solution owing to the innovative LED technology used. It can be used as a classic ceiling light fitting, pendant light fitting or a small flood light – along with the wide range of mounting accessories and light distribution curves available. Thanks to the optionally available satin-finished lens, you can use the luminaire as a glare-free ceiling light fitting at low mounting height.

With the range of various performance classes and the very high efficiency in terms of lighting technology, the luminaire provides the opportunity to replace conventional spotlights smoothly with a power output up to 500 W. The wide-beam light distribution prevents light pollution and ensures the optimum use of the radiated light on the useable surface. Moreover, the design of the luminaire enables the use in a high-stress environment. The IP68 degree of protection and the seawater-resistant aluminium make the luminaire ideal for installation offshore and on ships. The ambient temperature range up to +70 °C allows the lighting of areas which have a high thermal load due to the relevant process.

- Universal light fitting is a flexible solution, thanks to the range of power output classes available.
- Low-maintenance plus long service life owing to innovative chip-on-board LED technology.
- Can be installed directly on the ceiling, using ring eyes, pipe clamps or a pivoting mounting bracket.

Pendant light fitting series 6050

WebCode 6050A



+50 °C Zone 1/21
-60 °C Zone 2/22

A variety of lamp types and power outputs, as well as additional reflectors, make the 6050 series pendant light fitting a versatile choice. The integrated terminal box is designed to "increased safety" standard and takes all the hard work out of connecting the electrics of the pendant light, which is housed in a flame-proof enclosure. The powder-coated enclosure is made from seawater-resistant aluminium.

- Low-maintenance plus long service life, thanks to gas discharge lamps.
- Mounted with ring eyes or pivoting mounting bracket.

Pendant light fitting series 6470/5

LED

WebCode 6470B



8,800 lm +60 °C Zone 21
7,148 lm* -40 °C Zone 2/22

*For LED version.

Different cover variants make the 6470/5 series LED pendant light fitting suitable for wall mounting, ceiling mounting, suspending or for pole mounting. The efficient LED technology allows the replacement of conventional lamps of up to 500 W. Optional reflectors enable different light distribution types to fulfil the lighting task.

- Versatile and quick to install.
- Can be configured with or without an internal reflector to adapt to your lighting needs.
- Low-maintenance due to long service life of up to 100,000 operating hours.

Pendant light fitting series 6470

WebCode 6470C



+55 °C Zone 21
-50 °C Zone 2/22

The 6470 series pendant light fitting is a versatile choice for Zone 2. It can be suspended, wall-mounted and ceiling-mounted or installed directly on a suitable surface. With the addition of special covers, it can also be fitted directly to poles and walls. The powder-coated enclosure is made from seawater-resistant aluminium.

- Lamp types: high-pressure sodium vapour lamps (HSE), metal halide lamps (HIE) and halogen lamps (QT).
- Enclosure made from seawater-resistant aluminium.
- Flexibility, thanks to a range of power output classes, additional reflectors and mounting versions.

FLOODLIGHTS

Floodlight series 6125

LED

WebCode 6125A



19,979 lm +60 °C Zone 1/21
  
 For LED version. 11,155 lm -60 °C Zone 2/22
  

This floodlight is ideal for lighting up large areas from elevated positions. Three different light distribution types offer added versatility to fulfil your lighting needs. Producing a massive luminous flux of over 20,000 lm, this product is one of the top contenders when it comes to Zone 1 LED floodlights; applying the highly efficient optics, it can achieve luminous intensities that exceed those that are possible with HID technology.




- Low-maintenance due to long service life of up to 100,000 operating hours.
- Versatile thanks to the three different light distribution curves.
- Can be installed even in relatively inaccessible places.

Floodlight series 6525

LED

WebCode 6525A



21,026 lm +60 °C Zone 21
  
 For LED version. 11,155 lm -50 °C Zone 2/22
  

The 6525 series LED floodlight is ideal for lighting up large areas from elevated positions. Its wide-beam light distribution make it an excellent choice as a spotlight for lighting industrial buildings or as a high-bay light fitting; it can also be installed in relatively inaccessible places. The floodlight is generally designed with an enclosure and a bracket made from single-coated sheet steel.

- Can be used in Zones 2, 21 and 22.
- Low-maintenance due to long service life of up to 100,000 operating hours.
- Variant available with an enclosure and bracket made from double-coated 316L stainless steel.

Floodlight series 6121

WebCode 6121B



The 6121 series floodlight for conventional lamp technologies is ideal for lighting up large areas from elevated positions. Two different light distribution types offer added versatility to fulfil your lighting needs.

- For use in gas group IIC.
- Easy to install and maintain because of Ex e connection chamber.
- Optimised versions for all applications, including stainless steel version for offshore and marine environments.

Floodlight series 6521

WebCode 6521B/6521C



R. STAHL's compact floodlights are distinguished by their high performance, flexible installation options and ease of maintenance. They can be operated with halogen incandescent lamps, metal halide lamps or high-pressure sodium vapour lamps. The enclosure is available in coated sheet steel or V4A/V2A stainless steel. Owing to the Ex nA type of protection, some variants can be used without the need for restricted breathing testing.

- Modular design offers excellent flexibility when it comes to installation and makes maintenance easier.
- Wide- or narrow-beam reflectors.
- Ex nA variant for incredibly easy installation and low maintenance.

HAND LAMPS

Inspection light series 6149

LED

WebCode 6149B



1,200 lm +60 °C Zone 1/21
 600 lm* -40 °C Zone 2/22

*For LED version.

The 6149 series inspection light is a flexible solution that provides lighting exactly where you need it. The innovative design of the enclosure makes the light extremely slim and lightweight. Its lockable suspension hooks and practical anti-roll protection make it ideal for use in the workshop.

- Long-life, energy-saving, high-performance LEDs designed using innovative technology.
- Standard version with diffusor to limit glare.
- For 110 to 240 V AC/DC, 24 to 48 V AC/DC or 12 V DC.

Portable lamps series 6148

LED

WebCode 6148A



240 lm* +50 °C Zone 1/21
 -20 °C Zone 2/22

*For LED version.

The ergonomic design of the 6148 series portable LED lamp allows you to operate this lamp with just one hand. Its brightness can be freely adjusted; alternatively, it can be set to flashing mode. The pivoting lamp head allows you to direct the light cone virtually anywhere. Coloured diffusing lenses are available as accessories, and transform your lamp into a portable Ex signal beacon. When connected to the charging unit, it has an emergency lighting function.

- Incredibly lightweight.
- Long battery runtime.
- Approved in accordance with the relevant firefighting standard.

Hand lamp series 6141/61

LED
WebCode 6141B


50 lm



20 lm*

+40 °C



-20 °C

Zone 1



Zone 2

*For LED version.

The battery-powered 6141/61 series hand lamp is small enough to fit in your pocket, so that it is within easy reach whenever you need it. It features a push-button that enables you to switch the lamp on and off with one hand. This hand lamp boasts IP68 degree of protection, as well as ATEX and IECEx certification for use in hazardous areas.

- Uses alkaline batteries, therefore the user is not restricted by power point location.
- Energy-saving LED technology.
- Watertight with IP68 protection (3 m, 30 min.)

Hand lamp series 6141/62

LED
WebCode 6141A


50 lm



20 lm*

+40 °C



-20 °C

Zone 1/21



Zone 2/22

*For LED version.

The battery-powered 6141/62 series hand lamp is excellent for maintenance work and inspections. It uses energy-saving LEDs and features a push-button that enables you to switch the lamp on and off with one hand. This hand lamp boasts IP68 degree of protection, as well as ATEX and IECEx certification.

- Uses alkaline batteries so the user is not restricted by power point location.
- Watertight with IP68 protection (3 m, 30 min.)
- Accessories for signalling function and transportation.

EMERGENCY LIGHTING TECHNOLOGY



Central battery systems series 6950

Series 6950 central battery systems (CBS) power emergency lighting systems in hazardous atmospheres and in non-hazardous areas. The cabinets with an emergency power supply and control panel are installed in a non-hazardous area. With a CBS which functions as a central computer, 63 CBS sub-group control panels can be networked, each of which can actuate up to 60 final sub-circuits with over 600 luminaires.

The connected emergency and escape sign luminaires are monitored to measure current or could be addressed optionally. In addition, the system conducts automatic functional tests. All events are recorded in an electronic log. Error messages can be automatically e-mailed to defined lists of recipients and can be automatically forwarded.

- Programming, monitoring and maintenance are performed at a central point.
- Maintenance-free batteries have a shelf life of at least ten years.
- Lighting and switching type can be programmed individually for different scenarios.

Group battery system



The compact, freely programmable, microprocessor-controlled group battery system defined in accordance with DIN VDE 0108-100 is suitable for individual and group monitoring of lighting within individual fire compartments.

- Can be configured to run for 1 or 3 hours.
- Emergency and escape sign luminaires are tested automatically.
- The result is recorded in the electronic log.

Address module



Virtually all of R. STAHL's light fittings are available with an address module. This provides the communication interface with the central battery system and enables application-specific control of the light fitting in line with the requirements of the system's safety concept. The address module allows the individual address to be set for every light fitting that has an address module.

- Versions available for Zone 1 and Zone 2.
- Two-digit address can be set.
- Communicates with central battery system (CBS).
- From 2018 the address setting for LED luminaires will be possible via software without direct contact.

LED LIGHT FITTINGS FOR ALL YOUR REQUIREMENTS

R. STAHL is continually striving to develop sophisticated LED light fittings for all industry sectors and hazardous areas. Increasingly, the focus is on special production and application conditions that require lighting solutions with a modified colour spectrum. These include, for example, fields of application in the pharmaceutical industry and photograph development, where a high fraction of blue light can be detrimental to the quality of the products. We have developed LED light fittings that minimise the blue fraction by selectively converting the emission spectrum. LED solutions are twice as efficient as filtered fluorescent lamps.

We also offer special light fittings for identifying specific devices in industrial plants. For example, emergency safety showers and eye-wash stations are identified by means of a green light, while fire extinguishers are identified by means of a blue light.

R. STAHL also allows you to create custom signage or information displays for use in your facilities using "light fields". This enables you, for example, to signal processes and display process statuses. These light fields can optionally be designed to effectively "disappear", meaning that they will only be noticeable when they are switched on.

While working on developing our LED light fittings, we also take into consideration the environmental impact of the lighting. In outdoor facilities in particular, the light often shines into unused areas in which it is important that the natural behaviour of the animal and plant kingdoms should not be affected. Furthermore, R. STAHL ensures minimal light is discharged into the environment in order to avoid light pollution. Hence R. STAHL takes care to ensure that the light distribution of the light fittings has only a minimal luminous flux in the upper hemisphere.





Innovative LED light fittings protect both animals and the environment

R. STAHL supplies LED light fittings specially designed for outdoor usage – developed with a view to ensure that they have zero impact on our natural environment. To not affect the natural behaviour of turtles, yellow lighting is used, for instance.



Special lighting that shows you to safety

To ensure that help is at hand as quickly as possible in an emergency, people need a visual indicator that shows them clearly where to go. This is why we have included in our portfolio extra LED light fittings, which use designated colours to indicate the presence of different safety equipment.



Light fittings displaying specific warnings

Individual printed warnings allow important information to be conveyed within the facility. And because the light fittings are connected to a central battery system, you are 100 % safe even in the event of a malfunction.



LIGHTING DESIGN – TAILORED, ECONOMIC, APPROVED SOLUTIONS

Is it possible to “plan” illumination? Not only can it be done, it has to be done! This is particularly important when it comes to illuminating hazardous areas. Moreover, when lighting systems are installed or upgraded, this often involves several thousand light fittings – this means that any design errors will be costly.

Our professional lighting design service will devise the perfect lighting system for your needs. As a result, you get the total number of light fittings you require, considering the most effective installation position and orientation of the light fittings. It goes without saying that the lighting design process incorporates occupational health and safety and general safety considerations, in order to ensure that workplace directives are complied with at all times. The results of the lighting design process also have implications in terms of electrical wiring design.

We also work with the customer to establish the operating conditions and maintenance cycles, which allows us to calculate the overall costs. And to make sure that everything goes as per plan, we also help you with commissioning and maintaining your system. This means that with R. STAHL, you will always be on the bright – and safe – side.

Do you want to design your lighting system yourself? It is really easy to create a lighting design using our free software, ezyLum. Use it to import layouts, reproduce all possible building geometries, try out a large number of different lighting scenarios and then export your finished design.





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