



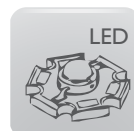
Intrinsically safe torch/flashlight Lite-Ex PL 10

The Lite-Ex PL 10 is the result of consistent development of the successful Lite-Ex PL 30. It is ultralight, powerful and suitable for daily use.

Despite its compact dimensions the Lite-Ex PL 10 is equipped with all of the features of its larger sibling. It comes with the tried and tested, wear-resistant ring switch and a high performance LED. The sophisticated optics ensures even illumination.



Zone 0/20



3000 Lux at a distance of 1m



147x36x36 mm



120 g

- Zone 0 / 20 certified
- Extremely light and compact.
Weight: just 120 g including batteries
- Simple to use
- High performance LED:
Luminosity: 3000 lx at a distance of 1 m
- Operating time: approx. 55 hours
- Ring switch
- Scratch-resistant: Coated protective disc
- Rugged polyamide housing
- Removable belt clip
- Pressure control valve

Scope of delivery:

- Lite-Ex PL 10
- Belt clip
- Wrist strap
- Instruction manual
- Batteries

Accessories and replacement parts:

- Ring switch
- Battery compartment
- Lamp head (only plastic part)
- Belt clip
- Replacement protective disc
- Seal set
- Wrist strap

Ex-data:

Ex-designation:

⊕ II 1G Ex ia op is IIC T4 Ga

⊕ II 1D Ex ia IIIC T130°C Da

EC-Type Examination Certificate:

ZELM 05 ATEX 0272 X



Belt clip



Wrist strap

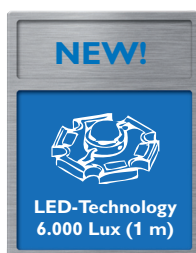
Technical data:

Ambient temperature:	-20 °C ... +50 °C
Storage temperature:	-30 °C ... +60°C (without batteries)
Batteries / power supply:	3 x LR03 according to IEC, AAA (type-tested)
Lamp:	High performance LED: 3000 lx at a distance of 1 m
Operating time:	approx. 55 hours
Dimensions:	147 x 36 x 36 mm
Weight:	approx. 120g (with batteries)
IP protection class:	IP 65/IP 67
ESD protection:	Anti-static housing
CE-designation:	CE0102



Intrinsically-Safe LED torch Lite-Ex PL 30

The Lite-Ex PL 30 LED high performance torch is especially designed to withstand daily use in industrial environments and with the 'ring-switch' mechanism, operation is made quickly and easily. Now 50 % brighter.



The ecom Lite-Ex PL 30 LED torch gives unrivalled high performance.

The 3-watt LED unit is powered by 3 x LR14 batteries, providing many hours of use. The anti-static polymer housing of the unit is ergonomically designed to be comfortably and securely held.

The high IP protection rating of IP65 provides protection against the permeation of dust and jet water. This thereby enables use in harsh conditions.

Switching on the torch could not be easier - simply twist the 'ring-switch'. This innovative switch mechanism means that even when wearing gloves the user can easily operate the torch and because it is a 'non-contact' mechanism the need for repair is reduced - saving time and money.

- Ex-zone 0/20
- 1x high performance LED (3-watt)
- 6000 Lux (1 m)
- Robust housing
- High protection rating of IP65
- breathable membrane

Standard delivery:

- Lite-Ex PL 30
- c/w batteries

Accessories:

- Spare batteries
- Leather Case

Ex-data:

Ex-designation:
 Ⓢ II 1 G Ex ia op is IIC T4
 Ⓢ II 1 D iaD 20 T 130 °C
 EC-Certificate of conformity:
 ZELM 05 ATEX 0272 X

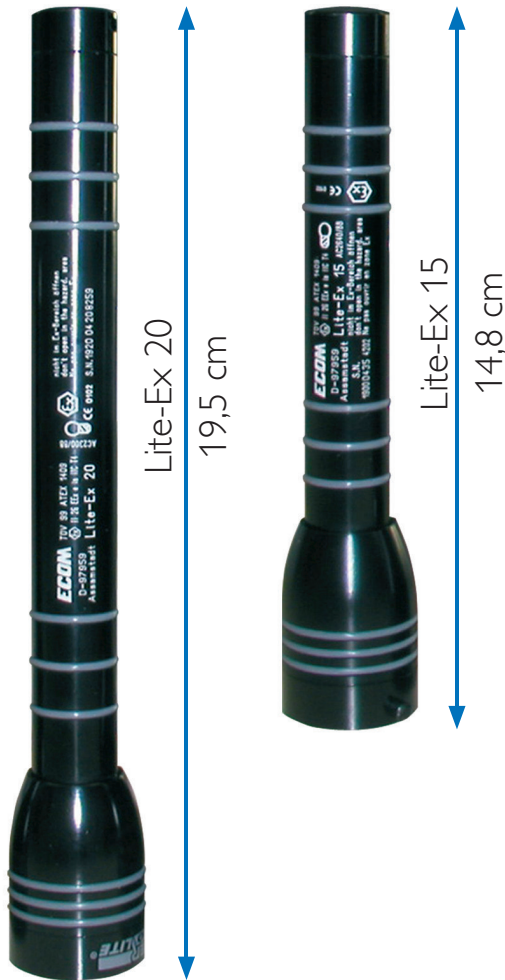
Technical data:

Ambient temperature:	-20 °C ... +50 °C
Light source:	1x 3 Watt LED
Power supply:	3x LR 14 (type-approved batteries)
Weight:	approx. 530 g
Protection rating:	IP65
Dimensions:	approx. 55/42 x 220 mm



Intrinsically-Safe Torches Lite-Ex 15, 20

Lite-Ex ...
...non-sparking aircraft aluminium!



The ultimate range of intrinsically-safe torches - with handy features such as adjustable beam focus, anti-roll device and integrated spare bulb. Housed in a solid metal casing that has integral rubber rings to provide a sure grip in hazardous areas.

Ex designation:
Ⓜ II 2 G EEx e ia IIC T4
EC-Certificate of conformity:
TÜV 99 ATEX 1409

Standard accessories:

- Lite-Ex with integrated spare bulb
- Batteries

Accessories:

Lite-Ex 20

- Leather carry case, spare lens
- Spare bulb type AC2300/BB

Lite-Ex 15

- Leather carry case, spare lens
- Spare bulb type AC2640/BB

	Lite-Ex 20	Lite-Ex 15
Ambient temperature:	-20 °C...+40°	-20 °C...+40°
Power supply:	3 x LR 6	2 x LR 6
Bulb:	AMPERCELL AC2300/BB	AMPERCELL AC2640/BB
Operating time:	up to 5 h	up to 4,5 h
Protection rating:	IP54	IP54
Weight:	approx. 152 g	approx. 120 g



Intrinsically safe handlamp SHL 200-Ex

The SHL 200-Ex is a rugged and powerful handlamp for industrial application in potentially explosive areas classified as Zone 1 and 21 in accordance with Directive 1999/92/EC (ATEX 137).



- Zone 1/21
- High light intensity
- State-of-the-art LED technology
- Pivoting lamp head
- Long battery life
- Dimmable main light
- Low weight

Scope of delivery:

- SHL 200-Ex
- Battery (integrated in the unit)
- Clear diffusing filter
- User manual
- Ex-certificate
- EC Declaration of Conformity

Accessories:

- Charging cradle
- Spare battery
- Diffusing filters (clear, orange, red)
- Wall bracket
- Shoulder strap
- Car charging cable

Download area:

- User manual
- Ex-certificate
- EC Declaration of Conformity

The lamp features a main light, ambient light and flashing light mode, which can easily be activated via the main switch. The main light has a 3W LED which generates a light intensity of 24,000 cd that can also be dimmed.

The ergonomic design enables perfect handling and allows the lamp to be held securely in your hand whilst working.

If the main light fails or the battery capacity falls below 10% during operation, the lamp automatically switches to its ambient lighting mode.

The high performance battery enables continuous operation of up to 8 hours in the main lighting mode (approx. 18 hours in flashing operation).

An emergency lighting function is naturally also integrated.

The housing is manufactured from impact-resistant polyamide and offers a high level of robustness thanks to its IP66 protection rating. The long-life bulb (LED) and the ability to replace the battery itself ensure maintenance costs are very low.

The charging station is suitable for use with common supply voltages, such as 12 V / 24V and 230V AC.

The package is rounded off by a comprehensive range of accessories, such as coloured diffusing filters and wall brackets.

Ex-data

ATEX

Ex II 2G Ex ib IICT4 Gb

Ex II 2D Ex tb IICT75°C Db



Technical specifications	
Ambient temperature	-20 °C ... +50 °C
Storage temperature	-25 °C ... +60 °C
Power supply	Lead acid battery 6 V; 4.5 Ah
Bulb	3W LED
Light intensity	24,000 cd
Luminous flux	211 lumens
Operating time (main light)	approx. 8 hrs (continuous operation)
Charging time	approx. 11 hrs
Dimensions	279 x 143 x 92 mm
Weight	1.45 kg (without charging cradle)
IP protection class	IP66
Charging cradle	12 V / 24 V & 230 V / AC
Dimensions of charging cradle	154 x 140 x 79 mm
CE-designation	CE 0102



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* also covering Egypt and Libya.

** also covering Bulgaria, Croatia, Czech Republic,
Hungary, Romania, Serbia, Slovakia and Slovenia.



Intrinsically Safe Hand Lamp SHL 350-Ex

The SHL 350-Ex is a robust handlamp with LED technology that is designed for industrial and firefighting applications in potentially explosive areas in zone 0 and 1, or 20 and 21 in accordance with directive 1999/92/EC (ATEX 137).



All of the important features exhibited by the predecessor model SHL 300-Ex, such as battery life and high light output, have been optimised in the development of the SHL 350-Ex. The design of the SHL 350-Ex combines ergonomics and functionality - all of the switches and displays are arranged in a concentrated manner and are operable with just one hand.

The use of three 3-watt high-power, state of the art LEDs ensures that it is not only the brightest hand lamp of its kind, but also that an extremely high level of operational reliability is maintained. This is due to an LED service life of 50,000 hours and the intelligent control system that ensures a high light output even if one of the LEDs fails.

A new feature is the temperature-compensated battery capacity display, which guarantees an accurate reading of the battery charge level at any operating temperature.

In addition, the requirements of the firefighting equipment standard (DIN 14642) for explosion-protected hand lamps have also been taken into account during development. The SHL 350-Ex is therefore also extremely suitable for use by firefighting services.

Emergency lighting and flashing light functions are naturally also integrated in the hand lamp. The optional diffusing and coloured filters are fitted within easy reach underneath the pivoting head.

The charging station has also been designed for easy use and single-handed operation. Regardless of the direction in which the SHL 350-Ex is inserted into the charging station, it engages fully and securely. The hand lamp is seated so securely in its charging station that it can theoretically even be mounted upside down.

- Zone 0, 1, 20 and 21 certified
- Approx. 10,000 lux at a distance of one meter provided by 3 high-power LEDs
- Flashing mode
- Can be dimmed between a brightness level of 25% and 100% (in 25% brightness levels)
- LED service life of approx. 50,000 hrs
- Robust, anti-static housing, IP 65
- Pivoting lamp head
- Optimum weight distribution, thereby ensuring optimum carrying comfort
- Temperature-compensated, 5-part battery capacity display
- Emergency lighting functions with high luminosity

Scope of delivery:

- SHL 350-Ex
- Battery (integrated in the hand lamp)
- User manual
- Carrying strap

Accessories:

- Diffusing filters in red, green, yellow, blue and uncoloured, diffused
- Charging station for mains operation
- Charging station for vehicle operation
- Carrying strap

Download area:

- Manual
- Certificate
- Declaration of conformity

Ex-Data:

Ex-designation:

⊕ II 1G Ex ia op is IICT4 Ga

⊕ II 1D Ex ia IICT130°C Da

EC-type examination certificate:

ZELM 12 ATEX 0479 X

The charging stations, which are available as optional accessories, are available for both mains and vehicle operation.

All of the charging stations in the LG-300 series can be used to charge both the SHL 300-Ex and the new SHL 350-Ex models!



Technical Data:

Ambient temperature:	-20 ... +50 °C
Storage temperature:	-30 ... +60 °C
Operating time :	approx. 6 hours (battery charged, dimmer set to 100% light output)
Dimmer function:	between 25% and 100% light output (can be adjusted in 25% brightness levels)
Lamp:	3 high performance LEDs
Light output:	10,000 lux (at a distance of one meter)
Power supply:	ecom-Ex battery pack
Dimensions:	approx. 140 mm x 190 mm x 300 mm
Weight:	approx. 2.4 kg
IP protection class:	IP 65
Solvent resistance:	Acetone
ESD protection:	Anti-static housing
Charging cycles:	min. 300 charging cycles with over-discharge and short-circuit protection
CE-designation:	CE 0102



Explosion-protected Inspection Lamp ISL 400-Ex

The ISL 400-Ex is a robust, cable-connected inspection lamp for industrial use in explosion-prone areas for zones 1 and 21 according to norm 1999/92/EC (ATEX 137). The inspection lamp is especially notable for their bright and extremely long-lasting illumination.



The ISL 400-Ex is especially suited to time-intensive maintenance and repair work. The units emit a uniform, bright light which greatly improves the working environment whilst helping to reduce fatigue in explosion-prone areas. The optional attachment clamps allow you to mount the lamp within reach at your office or workshop. You can also attach and orientate the ISL by utilising the integrated revolving hook or by using the optional magnetic fasteners.

The long-lasting cold cathode tubes are known primarily for their use in background lighting for flat screens, and have a very long lifetime. They surpass the longevity of traditional luminescent tubes by far. Since the tubes are also economical in terms of space, the ISL lamp provide more luminosity than ever in a compact, light and robust case.

The lamp is delivered with a 5 m cable end - which gives you the flexibility to connect the ex-plug of your choice.

The ISL 400-Ex set new standards in the field of repair and inspection lamps.

- Certified for use in zones 1 and 21
- Compact design thanks to a bright, long-lasting cold cathode light
- Robust, impact-resistant case
- with 4 lamps
- Available with optional protective basket
- Rotating attachment hook

Scope of delivery

- ISL 400-Ex (4 cold cathode tubes)
- 5 meter cable (attached), no plug
- Instruction manual

Optional accessories

- Wall-mounting clips
- Magnetic clips

Ex-data:

Ex designation:

Ⓜ II 2 G Ex d IIC T4

Ⓜ II 2 D Ex tD A21 IP6x T 105 °C till 120 °C

EC-Certificate of conformity:

PTB 07 ATEX 1045

Technical data:	ISL 400-Ex
Ambient temperature:	110 - 230 V AC 24 - 48 V AC/DC
Voltage range:	-20 °C ...+40 °C -20 °C ...+45 °C
Lamps:	110V AC ... 254 V AC 24V ... 48 V AC/DC
Light intensity:	4x CCFL
Weight (without cable):	205 Lux in 1 m displacement
Dimension:	approx. 900 g
Protection rating:	approx. 595 mm x 60 mm
	IP66/67

Intrinsically safe headlamp Lite-Ex® PL 10 H

The Lite-Ex® PL 10 H is an extremely rugged and very bright LED headlamp that is designed for everyday use in potentially explosive areas classified as Zone 0 and 20 in accordance with Directive 1999/92/EC (ATEX 137).



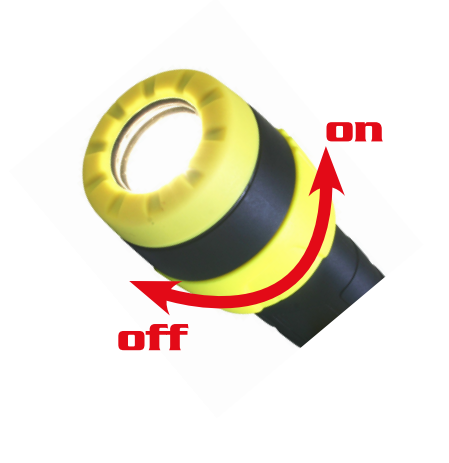
The Lite-Ex® PL 10 H is a headlamp which is based on the compact and powerful Lite-Ex® PL 10 flashlight. All of the features exhibited by the flashlight, such as the ring switch, luminosity level, IP pro-

tection class and degree of robustness are naturally also present in this version.

To suit the users preference, the Lite-Ex® PL 10 H is available in two different optics in the scattering angles 6° or 25°.

The Lite-Ex® PL 10 H fits comfortably on a helmet and can be adjusted to the desired angle of inclination to ensure optimum illumination of the working area.

The innovative rubber band sits securely on a helmet and its texture prevents it from slipping, even when wet.



Ex-data

ATEX

⊕ II 1G Ex ia op is IICT4 Ga

⊕ II 1D Ex ia IICT130°C Da



IECEX

Ex ia op is T4 Ga

Ex ia IICT130°C Da IP65



- Zone 0/20
- High performance LED
- Ring switch
- Scratch-resistant thanks to the coated protective disc
- Rugged polyamide housing
- Diaphragm valve for pressure compensation
- Durable headband

Scope of delivery:

- Lite-Ex® PL 10 H
- Batteries
- Headband
- User manual
- Ex-certificate
- EC Declaration of Conformity

Accessories and spare parts:

- Ring switch
- Battery compartment
- Lamp head (plastic part only)
- Replacement protective disc
- Seal set
- Headband

Download area:

- User manual
- Ex-certificate
- EC Declaration of Conformity

Technical specifications	
Ambient temperature	-20 °C ... +50 °C
Storage temperature	-30 °C ... +60 °C (without batteries)
Power supply	3 x AAA (type-tested)
Bulb	High performance LED
Luminosity	3,000 Lux (at a distance of 1 m / 6° optics) or 1,800 Lux (at a distance of 1 m / 25° optics)
Luminous flux	64 lumens
Operating time	approx. 55 hrs
Dimensions	approx. 60 x 87 x 69 mm (H x L x W)
Weight	approx. 180 g (incl. headband)
IP protection class	IP65 / IP67
CE-designation	CE 0102



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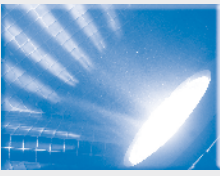
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Intrinsically-Safe LED – Headlamp Lite-Ex KL 10

The Lite-Ex KL 10 is an extremely light and very bright LED headlamp for use in ex-areas. Certified for use in areas classified as zone 1 and 2 in accordance with norm 1999/92/EG (ATEX137).

The Lite-Ex KL 10 is equipped with a 0.5W power LED and a 2-part elasticated strap which guarantees a comfortable and secure fit either onto a helmet or direct onto the head. A snug, excellent fit is guaranteed by the middle strap.

Notable for its highly compact and light-weight design (only 90g with batteries and strap) the lamp needs only 2 micro-cell LR03 batteries - making it an ideal device for anyone who needs to be 'handsfree' without having to carry a lot of equipment.

And when not in use - the Lite-Ex KL10 is so compact that it can be quickly and easily put in a pocket.



- Only 90g with batteries!
 - 0.5 W power LED with 2 brightness settings
 - Swivel-mounted lamp head
 - Certified for use in Ex-areas in zones 1 and 2
 - Comfortable 3-point fitting system
- Scope of delivery:**
- Lite-Ex KL 10
 - Leather case
 - Batteries
 - Headband
 - Operating instructions

Technical data:

Operating time:	> 4 hours (continuous operation)
Dimensions:	approx. 45 mm x 70 mm
Weight:	approx. 90g (with batteries)
Protection rating:	IP 65
Batteries:	2x LR03 (Micro, AAA)
CE identification:	CE0102

Ex-data:

Ex designation:
Ⓜ II 2 G Ex ia IIC T4
EC-Certificate of conformity:
TÜV 07 ATEX 553464 X