

Iluminación portátil LED ATEX



Lámparas ATEX portátiles, móviles, de mano y proyectores de batería



Soluciones móviles de distribución eléctrica e iluminación LED para aplicaciones industriales y zonas ATEX



ATEX PRODUCTS

LED HAND LAMPS	4 - 7
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SYMBOLS



Number & type of the LED modules



Energy Efficiency Index



LED E27 Lamp



Luminous flux value



Supply voltage



IP protection category



Cable specification



Protection class II or III



Symbolic identification for ex-proof lamps



Identification for lamps with accu operation



Identification for lamps with battery operation



Made in Germany



ATEX hand lamps - Areas of application

Sewage treatment plants



Tank cleaning



Shipyard



Petrochemical industry



Offshore



Aviation industry



Biogas plants



KE-LED-EX 4003



Extremely compact and lightweight ATEX hand lamp. Ideal for illuminating difficult to access and confined areas during inspection and service work.

- Illuminant: 3 POWER LEDs / 6500 K
- Protection tube: polycarbonate, shock-resistant, 40mm Ø
- Handle / end cap: neoprene, black
- Metal hook: yes, plastified, rotatable
- Protection category: IP68 -50 m / 5 h
- Protection class: II / III
- Cable: 10m H07RN-F 2 x 1,00 mm²
- Voltage: 230 V / 110 V / 42 V / 24 V / 12 V
- Special requests - as covered by our Ex-certification - can be fulfilled.

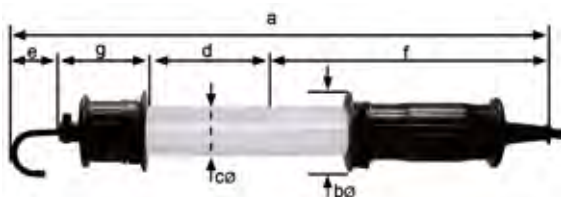


Metal suspension hook, 360 ° rotatable

Technical details

Type	number LED	volt	ampere	lumen	protection class	protective tube	IP	cable	plug	weight	Art.-no.
KE-LED-EX 4003/230	3	230 V AC	0,035	350 lm	II	Polycarbonat	IP68	10 m H07RN-F	ohne w/o	1,55 kg	147000
KE-LED-EX 4003/110	3	110 V AC/DC	0,035	350 lm	II	Polycarbonat	IP68	10 m H07RN-F	ohne w/o	1,55 kg	147010
KE-LED-EX 4003/42	3	42 V AC/DC	0,090	350 lm	II	Polycarbonat	IP68	10 m H07RN-F	ohne w/o	1,55 kg	147020
KE-LED-EX 4003/24	3	24 V AC/DC	0,120	350 lm	III	Polycarbonat	IP68	10 m H07RN-F	ohne w/o	1,55 kg	147030
KE-LED-EX 4003/12	3	12 V AC/DC	0,240	350 lm	III	Polycarbonat	IP68	10 m H07RN-F	ohne w/o	1,55 kg	147040

Dimensions



Dimensions in mm

	a	b	c	d	e	f	g
KE-LED-EX 4003	430	64	40	85	65	240	40

ATEX Identification

ATEX-Nr.: TÜV 18 ATEX 8184

● II 2 G Ex eb mb op is IIC T4 Gb

● II 2 D Ex tb op is IIIC T105° Db IP68

Device group:

II

Category:

2G / 2D

Hazard zone:

1,2 / 21, 22

Temperature class:

T4

T_{amb}:

-20°C - +50°C

KE-LED-EX 4006



Explosion-proof LED hand lamp, ideal for maintenance- and inspection works in areas where safety regarding explosion protection is required.

- Illuminant: 6 POWER LEDs / 6500 K
- Protection tube: polycarbonate, shock-resistant, 40 mm Ø
- Handle / end cap: neoprene, black
- Metal hook: yes, plastified, rotatable
- Protection category: IP68 -50 m / 5 h
- Protection class: II / III
- Cable: 10 m H07RN-F 2 x 1,00 mm²
- Voltage: 230V / 110V / 42V / 24V / 12V
- Special requests - as covered by our Ex-certification - can be fulfilled.

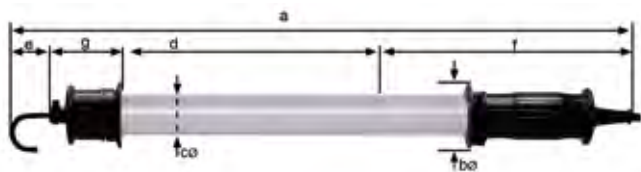


Neopren handle, griffy

Technical details

Type	Number LED	Volt	Ampere	Lumen	Protection Class	Protective Tube	IP	Cable	Plug	Weight	Art.-No.
KE-LED-EX 4006/230	6	230 V AC	0,065	700 lm	II	Polycarbonat	IP68	10 m H07RN-F	ohne w/o	1,65 kg	146000
KE-LED-EX 4006/110	6	110 V AC/DC	0,065	700 lm	II	Polycarbonat	IP68	10 m H07RN-F	ohne w/o	1,65 kg	146010
KE-LED-EX 4006/42	6	42 V AC/DC	0,160	700 lm	II	Polycarbonat	IP68	10 m H07RN-F	ohne w/o	1,65 kg	146020
KE-LED-EX 4006/24	6	24 V AC/DC	0,280	700 lm	III	Polycarbonat	IP68	10 m H07RN-F	ohne w/o	1,65 kg	146030
KE-LED-EX 4006/12	6	12 V AC/DC	0,330	700 lm	III	Polycarbonat	IP68	10 m H07RN-F	ohne w/o	1,65 kg	146040

Dimensions



Dimensions in mm

	a	b	c	d	e	f	g
KE-LED-EX 4006	600	64	40	255	65	240	40

ATEX Identification

ATEX-Nr.: TÜV 18 ATEX 8184

● II 2 G Ex eb mb op is IIC T4 Gb

● II 2 D Ex tb op is IIIC T105° Db IP68

Device group:

Category:

Hazard zone:

Temperature class:

T_{amb}:

II

2G / 2D

1,2 / 21, 22

T4

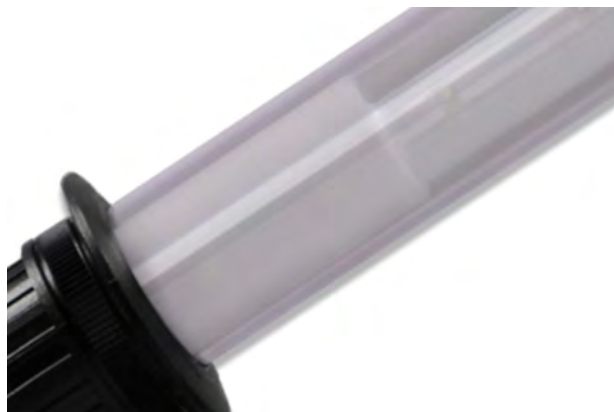
-20°C - +50°C

KE-LED-EX 5024



The high-intensity ATEX LED hand lamp KE-LED-EX 5024 supports you with extremely bright and glare-free light when working in explosion-proof areas.

- Illuminant: 24 POWER LEDs / 6500 K
- Protection tube: polycarbonate, shock-resistant, 50 mm Ø
- Handle / end cap: neoprene, black
- Metal hook: yes, plastified, rotatable
- Protection category: IP68 -50 m / 5 h
- Protection class: II / III
- Cable: 10 m H07RN-F 2 x 1,00 mm²
- Voltage: 230 V / 110 V / 24 V
- Special requests - as covered by our Ex-certification - can be fulfilled.

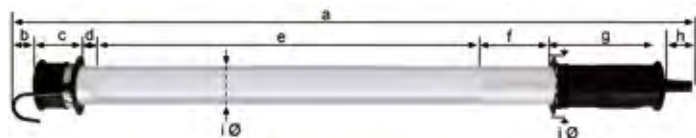


Safe silicone encapseling

Technical details

Type	number LED	volt	ampere	lumen	protection class	protective tube	IP	cable	plug	weight	Art.-no.
KE-LED-EX 5024/230	24	230 V AC	0,075	2400 lm	II	Polycarbonat	IP68	10 m H07RN-F	ohne w/o	2,2 kg	148000
KE-LED-EX 5024/110	24	110 V AC/DC	0,135	2400 lm	II	Polycarbonat	IP68	10 m H07RN-F	ohne w/o	2,2 kg	148010
KE-LED-EX 5024/24	24	24 V AC/DC	0,550	2400 lm	III	Polycarbonat	IP68	10 m H07RN-F	ohne w/o	2,2 kg	148030

Dimensions



Dimensions in mm

	a	b	c	d	e	f	g	h	i	j	Ø
KE-LED-EX 5024	875	25	55	20	500	90	140	45	50	75	

ATEX Identification

ATEX-Nr.: TÜV 18 ATEX 8191 X

● II 2 G Ex eb mb op is IIC T4 Gb

● II 2 D Ex tb op is IIIC T105° Db IP68

Device group:

Category:

Hazard zone:

Temperature class:

T_{amb}:

II

2G / 2D

1,2 / 21, 22

T4

-20°C - +40°C



KE-EX 68..

18 Watt
24 Watt
36 Watt
55 Watt1200
bis
4800
Lumen230V
110V
42V
24V
12V

IP68

H07
RN-FEEI
A

also available with through-wiring

Ex-proof, mobile working lamp, with 18, 24, 36 or 55 watt compact fluorescent tube. Also with through-wiring or as round light (360°) lamp available.

- Illuminant: compact fluorescent tube, 18, 24, 36 or 55 watt
- Protection tube: polycarbonate, shock-resistant, 68 mm Ø
- End cap: aluminium, black anodized
- Other: protecting ring made of neoprene
- Protection category: IP68 - 10 m / 0,5 h
- Protection class: II
- Cable: 5 m H07RN-F 2 x 1,50 mm²
- Voltage: 230 V / 110 V / 42 V / 24 V / 12 V
- Special requests - as covered by our Ex-certification - can be fulfilled.



Aluminum end pieces, anodized

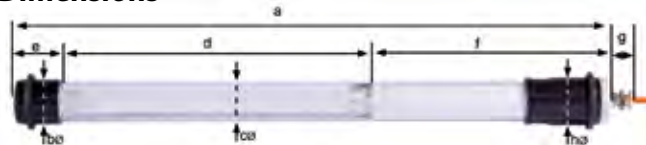


Anti-shock rings made of neoprene

Technical details

Type	Watt	Volt	Amp.	Volt	Amp.	Volt	Amp.	Volt	Amp.	Volt	Amp.	IP	Lumen	Cable	Weight
KE-EX 6818	18	230 V AC	0,12	110 V AC/DC	0,30	42 V AC/DC	0,70	24 V AC/DC	1,50	12 V AC/DC	1,50	IP68	1200 lm	5 m H07RN-F	3,2 kg
KE-EX 6824	24	230 V AC	0,12	110 V AC/DC	0,35	42 V AC/DC	0,70	24 V AC/DC	1,50	12 V AC/DC	1,50	IP68	1800 lm	5 m H07RN-F	3,4 kg
KE-EX 6836	36	230 V AC	0,17	110 V AC/DC	0,35	42 V AC/DC	0,80	24 V AC/DC	1,70	12 V AC/DC	1,70	IP68	2900 lm	5 m H07RN-F	3,5 kg
KE-EX 6855	55	230 V AC	0,28	110 V AC/DC	0,45	42 V AC/DC	1,20	24 V AC/DC	2,20	---	---	IP68	4800 lm	5 m H07RN-F	3,6 kg

Dimensions



Dimensions in mm

	a	b	c	d	e	f	g	h
KE-EX 6818	665	75	68	195	70	405	45	79
KE-EX 6824	755	75	68	283	70	405	45	79
KE-EX 6836	855	75	68	380	70	405	45	79
KE-EX 6855	975	75	68	500	70	405	45	79

ATEX Identification

ATEX-Nr.: KEMA 03ATEX2015 X

● II 2 G Ex d e IIC T6 Gb

● II 2 D Ex tb IIIC T80°C Db

Device group:

II

Category:

2G / 2D

Hazard zone:

1,2 / 21, 22

Temperature class:

T6

T_{amb}:

-20°C - +40°C

EX-lamps - Complete sets



EX Trolley LED 5024/230

consisting of:

- 3x KE-LED-EX 5024 LED lamps with a total of 7200 lumens, IP68, 230V, Alu-trolley, special coated, with 20m cable. (optional as well with 4 lights or in 24V available)

see page 53



SAFE EX 5024 TR-STA / 24V

consisting of:

- 4x KE-LED-EX 5024/24V LED lamp
- 4x Metal stand, stainless steel, foldable
- Standard transformer 250 VA 230 V - 24 V (optional as well with ATEX transformer available)

on request



SAFE EX 5024 TR / 24V

consisting of:

- 4x KE-LED-EX 5024 / 24 V LED hand lamp
- 8x EX-fixing clamp incl. magnet, rubber coated
- Standard transformer 250 VA 230 V - 24 V (optional as well with ATEX transformer available)

on request



SAFE EX 4006 TR-ST / 24V

consisting of:

- 1x ATEX LED floodlight 24 V incl. tripod V2A
- 2x KE-LED-EX 4006 / 24 V LED hand lamps
- Standard transformer 250 VA 230 V - 24 V (optional as well with ATEX transformer available)

on request



ATEX tube luminaires - Areas of application

Vehicle construction



Shipyard



Petrochemical industry



Offshore



Mechanical engineering



Sewage treatment plants



Clean room technology



KE-LED-EX 3010 ARMATUR



Explosion-proof LED built-in and surface mounted lamp. Due to compact dimension ideal for the integration in machines, vehicles and all kind of electric devices.

- Illuminant: 10 POWER LEDs / 6500 K
- Protection tube: polycarbonate, shock-resistant, 30 mm Ø
- End cap: aluminium, black anodized
- Fixation: incl. 2 fixing clamps made of plastic
- Protection category: IP68 -50 m / 5 h
- Protection class: III
- Cable: 10 m H07BQ-F 2 x 1,50 mm²
- Voltage: 24 V
- Special requests - as covered by our Ex-certificaton - can be fulfilled.



brackets included

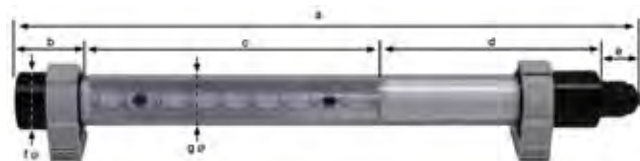


Aluminum end pieces, anodised

Technical details

Type	Number LED	Volt	Ampere	Lumen	Protection Class	Protective Tube	IP	Cable	Plug	Weight	Art.-No.
KE-LED-EX 3010/24 Armatur	10	24 V AC/DC	0,215	850 lm	III	Polycarbonat	IP68	10 m H07BQ-F	ohne w/o	1,55 kg	150100

Dimensions



Dimensions in mm

	a	b	c	d	e	f	g	Ø
KE-LED-EX 3010 Armatur	355	35	170	125	25	33	30	

ATEX Identification

ATEX-Nr.: TÜV 18 ATEX 8240

● II 2 G Ex eb mb op is IIC T4 Gb

● II 2 D Ex tb op is IIIC T105° Db

Device group:

Category:

Hazard zone:

Temperature class:

T_{amb}:

II

2G / 2D

1,2 / 21, 22

T4

-20°C - +50°C



KE-LED-EX 4003 ARMATUR

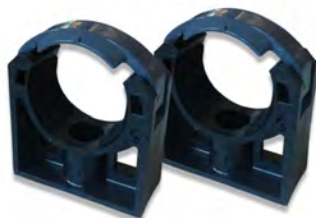


Explosion-proof LED built-in and surface mounted lamp. Due to compact dimension ideal for the integration in machines, vehicles and all kind of electric devices.

- Illuminant: 3 POWER LEDs / 6500 K
- Protection tube: polycarbonate, shock-resistant, 40 mm Ø
- End cap: aluminium, black anodized
- Fixation: incl. 2 fixing clamps made of plastic
- Protection category: IP68 -50 m / 5 h
- Protection class: II / III
- Cable: 10 m H07BQ-F 2 x 1,50 mm²
- Voltage: 230 V / 110 V / 42 V / 24 V / 12 V
- Special requests - as covered by our Ex-certificaton - can be fulfilled.



Safe silicone encapsulation

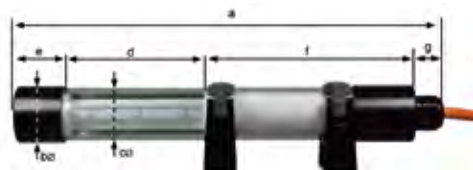


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Technical details

Type	Number LED	Volt	Ampere	Lumen	Protection Class	Protective Tube	IP	Cable	Plug	Weight	Art.-No.
KE-LED-EX 4003/230 Armatur	3	230 V AC	0,065	350 lm	II	Polycarbonat	IP68	10 m H07BQ-F	ohne w/o	1,56 kg	147100
KE-LED-EX 4003/110 Armatur	3	110 V AC/DC	0,065	350 lm	II	Polycarbonat	IP68	10 m H07BQ-F	ohne w/o	1,56 kg	147110
KE-LED-EX 4003/42 Armatur	3	42 V AC/DC	0,160	350 lm	II	Polycarbonat	IP68	10 m H07BQ-F	ohne w/o	1,56 kg	141120
KE-LED-EX 4003/24 Armatur	3	24 V AC/DC	0,280	350 lm	III	Polycarbonat	IP68	10 m H07BQ-F	ohne w/o	1,56 kg	147130
KE-LED-EX 4003/12 Armatur	3	12 V AC/DC	0,330	350 lm	III	Polycarbonat	IP68	10 m H07BQ-F	ohne w/o	1,56 kg	147140

Dimensions



Dimensions in mm

	a	b	c	d	e	f	g
KE-LED-EX 4003 Armatur	325	43	40	115	35	150	25

ATEX Identification

ATEX-Nr.: TÜV 18 ATEX 8184

● II 2 G Ex eb mb op is IIC T4 Gb

● II 2 D Ex tb op is IIIC T105° Db IP68

Device group:

II

Category:

2G / 2D

Hazard zone:

1,2 / 21, 22

Temperature class:

T4

T_{amb}:

-20°C - +50°C

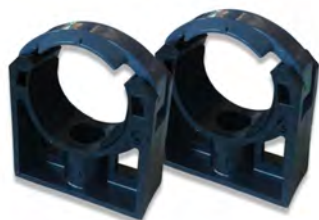


KE-LED-EX 4006 ARMATUR



Explosion-proof LED built-in and surface mounted lamp with high light output. Ideal for the integration in machines, vehicles and all kind of electric devices.

- Illuminant: 6 POWER LEDs / 6500 K
- Protection tube: polycarbonate, shock-resistant, 40 mm Ø
- End cap: aluminium, black anodized
- Fixation: incl. 2 fixing clamps made of plastic
- Protection category: IP68 -50 m / 5 h
- Protection class: II / III
- Cable: 10 m H07BQ-F 2 x 1,50 mm²
- Voltage: 230 V / 110 V / 42 V / 24 V / 12 V
- Special requests - as covered by our Ex-certification - can be fulfilled.

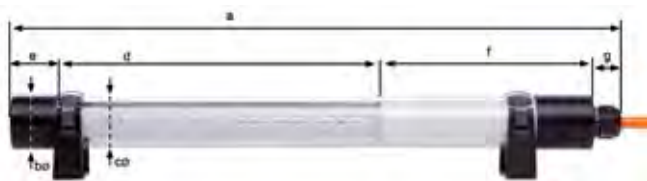


brackets included

Technical details

Type	Number LED	Volt	Ampere	Lumen	Protection Class	Protective Tube	IP	Cable	Plug	Weight	Art.-No.
KE-LED-EX 4006/230 Armatur	6	230 V AC	0,065	700 lm	II	Polycarbonat	IP68	10 m H07BQ-F	ohne w/o	1,66 kg	146100
KE-LED-EX 4006/110 Armatur	6	110 V AC/DC	0,065	700 lm	II	Polycarbonat	IP68	10 m H07BQ-F	ohne w/o	1,66 kg	146110
KE-LED-EX 4006/42 Armatur	6	42 V AC/DC	0,160	700 lm	II	Polycarbonat	IP68	10 m H07BQ-F	ohne w/o	1,66 kg	146120
KE-LED-EX 4006/24 Armatur	6	24 V AC/DC	0,280	700 lm	III	Polycarbonat	IP68	10 m H07BQ-F	ohne w/o	1,66 kg	146130
KE-LED-EX 4006/12 Armatur	6	12 V AC/DC	0,330	700 lm	III	Polycarbonat	IP68	10 m H07BQ-F	ohne w/o	1,66 kg	146140

Dimensions



Dimensions in mm

	a	b	c	d	e	f	g
KE-LED-EX 4006 Armatur	495	43	40	255	35	170	25

ATEX Identification

ATEX-Nr.: TÜV 18 ATEX 8184

● II 2 G Ex eb mb op is IIC T4 Gb

● II 2 D Ex tb op is IIIC T105° Db IP68

Device group:

II

Category:

2G / 2D

Hazard zone:

1,2 / 21, 22

Temperature class:

T4

T_{amb}:

-20°C - +50°C



KE-LED-EX 5024 ARMATUR

24x
POWER
LED2400
Lumen230V
110V
24V

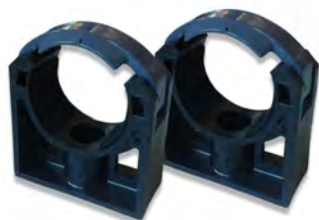
IP68

H07
BQ-F

also available with through-wiring

Explosion-proof LED built-in and surface mounted lamp with high light output. Ideal for the integration in machines, vehicles and all kind of electric devices.

- Illuminant: 24 POWER LEDs / 6500 K
- Protection tube: polycarbonate, shock-resistant, 50 mm Ø
- End cap: aluminium, black anodized
- Fixation: incl. 2 fixing clamps made of plastic
- Protection category: IP68 - 50 m / 5 h
- Protection class: II / III
- Cable: 10 m H07BQ-F 2 x 1,50 mm²
- Voltage: 230 V / 110 V / 24 V
- Special requests - as covered by our Ex-certification - can be fulfilled.



brackets included

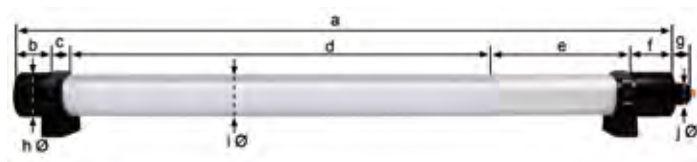


Safe silicone encapsulation

Technical details

Type	Number LED	Volt	Ampere	Lumen	Protection Class	Protective Tube	IP	Cable	Plug	Weight	Art.-No.
KE-LED-EX 5024/230 Armatur	24	230 V AC	0,075	2400 lm	II	Polycarbonat	IP68	10 m H07BQ-F	ohne w/o	2,2 kg	148100
KE-LED-EX 5024/110 Armatur	24	110 V AC/DC	0,135	2400 lm	II	Polycarbonat	IP68	10 m H07BQ-F	ohne w/o	2,2 kg	148110
KE-LED-EX 5024/24 Armatur	24	24 V AC/DC	0,550	2400 lm	III	Polycarbonat	IP68	10 m H07BQ-F	ohne w/o	2,2 kg	148130

Dimensions



Dimensions in mm

	a	b	c	d	e	f	g	h	i	j	Ø
KE-LED-EX 5024	770	35	25	500	165	45	25	53	50	25	



ATEX Identification

ATEX-Nr.: TÜV 18 ATEX 8191 X

● II 2 G Ex eb mb op is IIC T4 Gb

● II 2 D Ex tb op is IIIC T105° Db IP68

Device group:

Category:

Hazard zone:

Temperature class:

T_{amb}:

II

2G / 2D

1,2 / 21, 22

T4

-20°C - +40°C

KE-EX 68.. ARMATUR



also available with through-wiring

Explosion-proof built-in and surface mounted lamp, optional with 18, 24, 36 or 55 watt compact fluorescent tube. Also with through-wiring or as round light (360°) lamp available.

- Illuminant: compact fluorescent tube, 18, 24, 36 or 55 watt
- Protection tube: polycarbonate, shock-resistant, 68 mm Ø
- End cap: aluminium, black anodized
- Fixation: incl. 2 fixing clamps made of plastic
- Protection category: IP68 -10 m / 0,5 h
- Protection class: II
- Cable: 5 m H07BQ-F 2 x 1,50 mm²
- Voltage: 230 V / 110 V / 42 V / 24 V / 12 V
- Special requests - as covered by our Ex-certification - can be fulfilled.



brackets included

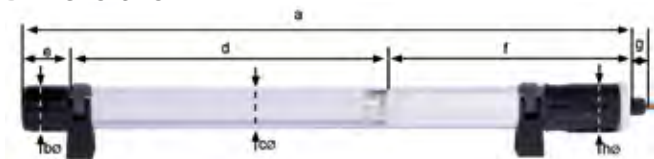


Aluminum end pieces, anodized

Technical details

Type	Watt	Volt	Amp.	Volt	Amp.	Volt	Amp.	Volt	Amp.	Volt	Amp.	IP	Lumen	Cable	Weight
KE-EX 6818 Ar. 18		230 V AC	0,12	110 V AC/DC	0,30	42 V AC/DC	0,70	24 V AC/DC	1,50	12 V AC/DC	1,50	IP68	1200 lm	5 m H07BQ-F	3,2 kg
KE-EX 6824 Ar. 24		230 V AC	0,12	110 V AC/DC	0,35	42 V AC/DC	0,70	24 V AC/DC	1,50	12 V AC/DC	1,50	IP68	1800 lm	5 m H07BQ-F	3,4 kg
KE-EX 6836 Ar. 36		230 V AC	0,17	110 V AC/DC	0,35	42 V AC/DC	0,80	24 V AC/DC	1,70	12 V AC/DC	1,70	IP68	2900 lm	5 m H07BQ-F	3,5 kg
KE-EX 6855 Ar. 55		230 V AC	0,28	110 V AC/DC	0,45	42 V AC/DC	1,20	24 V AC/DC	2,20	---	---	IP68	4800 lm	5 m H07BQ-F	3,6 kg

Dimensions



Dimensions in mm

	a	b	c	d	e	f	g	h
KE-EX 6818 Armatur	665	75	68	195	70	405	25	79
KE-EX 6824 Armatur	755	75	68	283	70	405	25	79
KE-EX 6836 Armatur	855	75	68	380	70	405	25	79
KE-EX 6855 Armatur	975	75	68	500	70	405	25	79

ATEX Identification

ATEX-Nr.: KEMA 03ATEX2015 X

● II 2 G Ex d e IIC T6 Gb

● II 2 D Ex tb IIIC T80°C Db

Device group:

II

Category:

2G / 2D

Hazard zone:

1,2 / 21, 22

temperature class:

T6

T_{amb}:

-20°C - +40°C

ULTRA Safe 3 LED



Magnetic fixing



Suspension hook



Stand

Robust ex-proof LED worklight with bright light. Dazzle-free light based on special prismatic-shaped cover.

- Robust LED spotlight, 81 POWER LEDs
- Plastic housing, antistatic
- Width, uniform illumination
- Positionable horizontally or vertically
- Protection category IP65
- Cable: 10 m H07RN-F (opt. 20m / 30m)
- Voltage: 24 V / 42 V
- optionally equipment available



Practically stackable



Carrying case



Tripod Ultra Safe EX

Technical details

Type	Number LED	Volt	Watt	Lumen	Housing	IP	Cable	Plug	Weight	Art.-No.
ULTRA Safe 3 LED / 24V	81	24V AC/DC	35W	4100	Plastik / plastic	IP65	10m H07RN-F	ohne w/o	4,5 kg	290796
ULTRA Safe 3 LED / 42V	81	24V AC/DC	35W	4100	Plastik / plastic	IP65	20m H07RN-F	ohne w/o	4,5 kg	290798
ULTRA Safe 3 LED / 42V	81	24V AC/DC	35W	4100	Plastik / plastic	IP65	30m H07RN-F	ohne w/o	4,5 kg	290799
ULTRA Safe 3 LED / 42V	81	42V AC/DC	35W	4100	Plastik / plastic	IP65	10m H07RN-F	ohne w/o	4,5 kg	290797
ULTRA Safe 3 LED / 42V	81	42V AC/DC	35W	4100	Plastik / plastic	IP65	20m H07RN-F	ohne w/o	4,5 kg	290801
ULTRA Safe 3 LED / 42V	81	42V AC/DC	35W	4100	Plastik / plastic	IP65	30m H07RN-F	ohne w/o	4,5 kg	290802

Dimensions



Dimensions in mm

	a	b	c
ULTRA Safe 3 LED	388	147	319

ATEX Identification

II 2 G Ex ib mb IICT4 Gb

II 2 D Ex ib mb IICT135° Db

Device group:

II

Category:

2G / 2D

Hazard zone:

1,2 / 21, 22

Temperature class:

T4

T_{amb}:

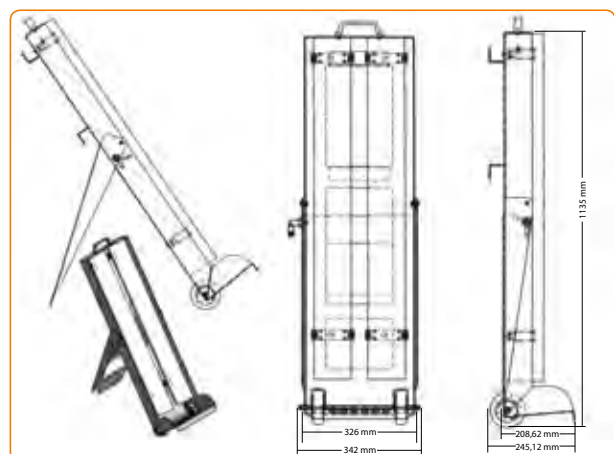
-20°C - +50°C

EX Trolley LED 5024 / 230


**72x
POWER
LED**
**7200
Lumen**
**230V
110V
24V**
IP68
**H07
RN-F**


**Mobile lighting solution for the ATEX area.
Set consisting of:**

- explosion-proof LED lamp KE-LED-EX 5024 (3 pieces)
- Lumen: 7200 lm (2400 lm per lamp)
- Voltage: 230 V (optional with 110 V or 24 V)
- Cable: 20 m H07RN-F 2 x 1,5 mm² (without plug)
- Aluminum trolley with 2 rolls, dissipative (also available with 4 LED lamps on request)



Technical details

Description	3x KE-LED-EX 5024 Lamp
Illuminant	3x 24x POWER LED
Lumen	7200 (3 x 2400)
Protective tube	Polycarbonat, 50 mm Ø
End caps	Aluminium
Voltage	230 Volt (opt. 110 V / 24 V)
Cable	20 m H07RN-F, w/o plug
Protection category	IP68 -50 m / 5 h

ATEX Identification

ATEX-Nr.: TÜV 18 ATEX 8191 X

- II 2 G Ex eb mb op is IIC T4 Gb
- II 2 D Ex tb op is IIIC T105° Db IP68

Device group:

II

Category:

2G / 2D

Hazard zone:

1,2 / 21, 22

Temperature class:

T4

T_{amb}:

-20°C - +40°C

Fixing clamps



Fixation clamp

Magnet clamps

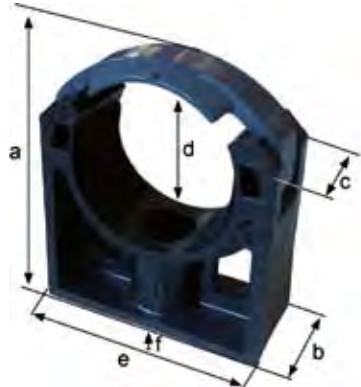


Fixation clamp with fully rubberized magnet

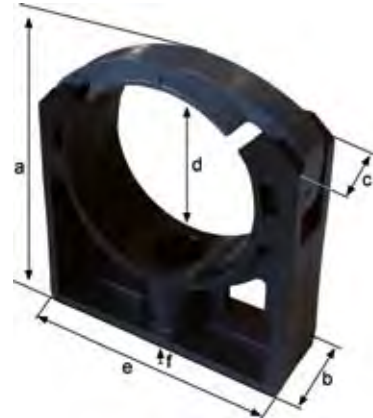
Multifunctional accessory for ex-proof hand- and Built-in and surface mounted lamps.

Fixing clamps

BFK-D40



BFK-D50



BFK-D75



Type	Art.-No.	for ¹⁾	Dimensions in mm					
			a	b	c	d	e	f ²⁾
BFK D40 EX für KE-EX 4008 / KE-LED-EX 4003 / 4006	290432	40	67	25	20	40,4	57	1x
BFK D50 EX für KE-LED-EX 5024	290431	50	75	30	20	50,5	69	1x
BFK D75 EX für KE-EX 6818 - 6855	290433	68	104	30	25	75,0	125	3x

¹⁾ Diameter of the tube

²⁾ Number of fixing hole

Fixing clamp with fully rubberized magnet

Type	Art.-No.	suitable for
KM 40-EX-KL	291275	KE-EX 4008 / KE-LED-EX 4003 / 4006
KM 50-EX-KL	290515	KE-LED-EX 5024
KM 75-EX-KL	290512	KE-EX 6818 - 6855

KM 40-EX-KL



KM 50-EX-KL



KM 75-EX-KL

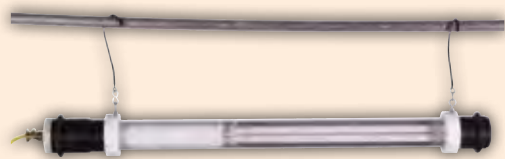


Protection foil

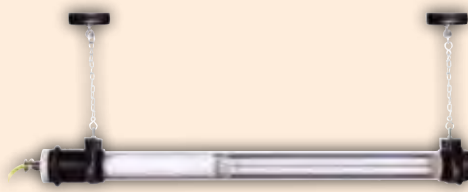


	SFO-EX 4003	SFO-EX 40xx	SFO-EX 5024	SFO-EX 6818	SFO-EX 6824	SFO-EX 6836	SFO-EX 6855
for lamp:	KE-LED-EX 4003	KE-EX 4008/KE-LED-EX 4006	KE-LED-EX 5024	KE-EX 6818	KE-EX 6824	KE-EX 6836	KE-EX 6855
Art-Nr. :	291281	291249	291654	291989	291990	291674	291675

Suspension



Suspension hook AH-EX



Chain suspension AK-EX



Silo suspension AS-EX

Suspension attachments

Type	Art.-No.	Description	suitable for
AH-EX	291386	Aufhängehaken <i>Suspension hook</i>	KE-EX 6818 - 6855
AK-EX	291385	Kettenaufhängung <i>Chain suspension</i>	KE-EX 6818 - 6855
AS-EX	291387	Silouaufhängung <i>Silo suspension</i>	KE-EX 6818 - 6855

Suspension attachments for KE-LED-EX 5024 on request



Rubber protection set

Type	Art.-No.	Description
GM-EX	292237	suitable for KE-EX 6818 - 6855

Highly efficient protection with absorbing effect in case of drop, impact and rough handling. Collar also usable as pedestral.



Metal stand

Pedestal V2A, foldable.

Type	Art.-No.	Description
STA-EX	291388	suitable for KE-EX 6836 / 6855 and KE-LED-EX 5024



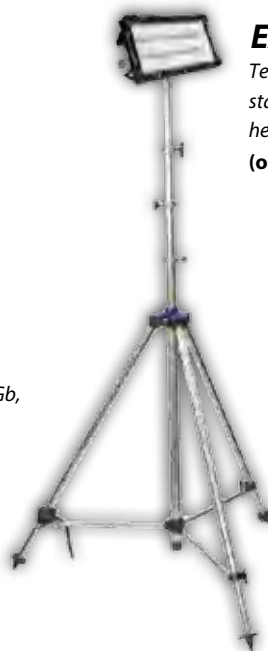
Carrying strap

Type	Art.-No.	suitable for
TG-EX	292243	KE-EX 6818 - 6855

EX battery box

Housing made of stainless steel, voltage 24V DC, connector ATEX DXN1, capacity 10 Ah, weight: approx. 15kg, deep discharge protection, protection class IP65, II2G Ex db eb IIC T6 Gb, II2D Ex tb IIC T80 °C Db

(on request)



EX tripod

Telescopic tripod made of stainless steel with air damping, standard peg according to DIN 14640, feet adjustable, height max. 4.58 m, load capacity max. 25 kg (on request)



ATEX battery lamps - Areas of application

Tank cleaning



Shipyard



Petrochemical industry



Offshore



Civil protection



Fire department





ULTRA SAFE 2 LED (ACCU)



LED

3200
Lumen

optionally available



magnetic fixing



suspension hook



stand

Robust ex-proof LED worklight, rechargeable, with bright light.
Dazzle-free light based on special prismatic-shaped cover.

- Robust LED spotlight, 3 rows
- Plastic housing, impact resistant
- Width, uniform illumination
- Front cover made of reinforced glass
- Powerful battery, up to 8 hours runtime
- incl. charger 230 V (not ex-protected)
- optionally available: replaceable protection foil for the illuminated surface of the lamp, magnetic fixing, stand, tripod



Practically stackable



Carrying case



Tripod Ultra Safe EX

Technical details

Type	ULTRA SAFE 2 - 8H	ULTRA SAFE 2 - 4H
Housing	Plastic (impact resistant)	
Illuminant	81 LEDs, 5000K	
Luminous flux	ca. 3200 lm	
Duration	ca. 8 h	ca. 4 h
Charging time	ca. 9 h	
Accu	LiPo Accu, 51,2 Ah	
Weight	5,5 kg	4,7 kg
Dimensions	388 mm x 319 mm x 147 mm	
Art.-No.	290794	290795

ATEX Identification

ATEX-Nr.: KIWA 18ATEX0040

● II 2 G Ex ib IIC T4 Gb

● II 2 D Ex ib IIIC T 135°C Db

Device group:

II

Category:

2G / 2D

Hazard zone:

1,2 / 21, 22

Temperature class:

T4

T_{amb} (during operation):

-20°C - +45°C

T_{amb} (during charging):

0°C - +40°C

Dimensions



Dimensions in mm

	a	b	c
ULTRA SAFE 2 LED	388	147	319



AccuLux EX SLE 15 LED / EX SLE 16 LED



LED

150
170
Lumen230V
24V
12V

IP64



EX SLE 15 LED



EX SLE 16 LED



incl. accessories

Explosion-proof LED working- and emergency power lamp with high-power rechargeable battery. In a set with charging station and other accessories.

- LED hand lamp, rechargeable, explosion-proof
- EX SLE 15 LED: wide, homogeneous illumination
- EX SLE 16 LED: with focus lens for wide headlight range
- Lamp head, rotatable
- Dust- and splash water proof plastic housing
- Protection category IP64
- Emergency power function, in case of electrical power outage
- High-quality, low-maintenance lead-gel accu
- Inclusive charging station suitable for wall mounting



Robustect housing, dust-proof, splash-proof

Technical details

Type	EX SLE 15 LED Set	EX SLE 16 LED Set
Main lamp	POWER LED	POWER LED & Fokus Linse
Headlight range	ca. 150 m	ca. 170 m
Duration	ca. 5 h	
Luminous flux	ca. 150 lm	ca. 170 lm
Pilot lamp	LED 5 mm	
Duration	ca. 85 h	
Protection category	IP64	
Accu	3,7 V / 4,6 Ah lead gel accu	
Charging volt.	230 V AC 50 / 60 Hz, 12 V / 24 V DC	
Housing	Plastic (impact resistant)	
Dimen./Weight	104 mm x 245 mm x 72 mm / 1,1 kg	
A Art.-No.	290645	290646

ATEX Identification

ATEX-Nr.: TÜV-A 07 ATEX 0001X

II 2 G Ex ib II CT4 Gb

II 2D Ex ib IIIC T 135°C Db Hazard

zone: 1, 2 / 21, 22

Dimensions





AccuLux HL 25 EX



LED

210
Lumen

AUFLADBAR

230V
24V
12V

IP67

MADE
IN
GERMANYoptional Multi charging
units available**HL 25 EX Set 12 V / 24 V**
also as 12 V / 24 V Set incl.
charging unit available

Explosion-proof LED flexible-head hand lamp equipped with two switchable high-power LED. Flexible and multifunctional applicable due to the movable lamp head.

- LED hand lamp, rechargeable, explosion-proof
- Illuminant LED 3W
- Lamp head, 4 stage movable
- Robust plastic housing, impact resistant
- Protection category IP67
- Emergency power function, can be deactivated
- Exchangeable lithium-ion rechargeable battery
- Light weight, only 545 g
- 100 - 230 V version: optional charging unit available
- 12 V / 24 V version: complete-set incl. charging unit



Luminaire head adjustable in 4 steps

Technical details

ype	AccuLux HL 25 EX
Housing	Plastic
Distance lamp	3 W LED
Duration	ca. 5 h
Blinking mode	ca. 10 h
Luminous flux	210 lm
Headlight range	ca. 200 m
Close-up range	1 W LED
Duration	ca. 10 h
Accu	3,7 V / 4,6 Ah Li-ionen accu
Charging time	ca. 6 h
Charging volt.	100 - 230 V AC 50/60Hz
Protection category	IP67
Weight	545 g
Dimensions	225 mm x 70 mm x 70 mm
Art.-No.	290630
Charging unit 110-230V: Art-No. 290634	

Description	AccuLux HL 25 EX Set 12/24V
Art.-No.	290637
ame as 230V, but with	
incl. Charging unit 12 V / 24 V	



ATEX Identification

ATEX-Nr.: TÜV-A 10ATEX0006

● II 2 G Ex ib II C T4

● II 2D Ex ibD 21 T 135°C

Hazard zone: 1,2 / 21, 22





AccuLux HL 12 EX (Accu Version)



LED

170
Lumen

IP67



HL 12 EX Set



also as Set incl. charging
unit available
(230 V or 12 V / 24 V)

Charging units



optional Multi charging
units available

ZONE
0/20
&
1/2/21/22

EX-protected hand lamp with power LED in angled shape is very bright and extremely light.

- Ex-proof accu LED angle light
- Illuminant POWER LED
- Robust plastic housing, shock-resistant
- Protection category IP67
- Illuminating duration up to 5 hours
- Headlamp head 90 ° angled, not adjustable
- Li-Ion accu, 3,7 V, 2600 mAh
- Extremely light, only 280 g
- **Art-No. 290777:** suitable zone 0/20
- **Art-No. 290774:** suitable for zone 1/2/21/22



Easy and handy

Technical details

Type	AccuLux HL 12 EX
Housing	Plastic, shock proof
Illuminant	POWER LED
Duration	ca. 5 h / 11 h
Charging time	ca. 4 h
Lamp head	angled
Luminous flux	170 lm / 55 lm
Headlight range	ca. 200 m
Accu	Lithium-Ionen, 3,7 V, 2600 mAh
Protection category	IP67
Gewicht Weight	280 g
Maße Dimensions	61 mm x 90 mm x 200 mm

available as

HL 12 EX Zone 0/20	only light	Art-Nr. 290777
HL 12 EX Zone 1/2/21/22	only light	Art-Nr. 290774
HL 12 EX Zone 1/2/21/22 Set 230V	Light inc. Loading unit	Art-Nr. 290776
HL 12 EX Zone 1/2/21/22 Set 12/24V	Light inc. Loading unit	Art-Nr. 290775
Charging unit 110-230V	Charging station	Art-Nr. 290634



ATEX Identification

ATEX-Nr.: TÜV-A 16ATEX0003X

ZONE 0 / 20

- II 1 G Ex ia IIC T4 Ga
- II 1 D Ex ia IIIC T 135°C Da

ZONE 1/2/21/22

- II 2 G Ex ib IIC T4 Gb
- II 2 D Ex ib IIIC T 135°C Db





AccuLux FOUR LED EX



LED

45
Lumen

IP65



rechargeable

magnetical pull cap
c

Ex-proof, rechargeable LED torch. Four lense-focused white LED generate, a very bright homogeneous light cone.

- Ex-proof accu LED Torch
- Illuminant 4x lense-focused LED 5mm
- Robust plastic housing, shock-resistant, light and compact
- Protection category IP65
- Illuminating duration up to 12 hours
- Accu & net charging plug integrated, rechargeable up to 1000x
- The pull cap adheres magnetically on the lamp while charging



Optional helmet holder available

Technical details

Type	AccuLux Four LED EX
Housing	Plastic, shock proof
Illuminant	4x LED 5mm
Duration	ca. 12 h
Luminous flux	45 lm
Headlight range	ca. 50 m
Accu	NiMH 4,8 V / 550 mAh
Charging time	ca. 12 h
Charging volt.	120 V / 230 V AC 50/60 Hz
Protection category	IP65
Weight	150 g
Dimensions	135 mm x 48 mm x 48 mm
Art.-No.	290640



ATEX Identification

ATEX-Nr.: TÜV-A 09ATEX0003

● II 2 G Ex ib IIC T4

● II 2 D Ex ibD 21 T 135°C

Hazard zone: 1, 2 / 21, 22





AccuLux HL 12 EX (Battery-Version)



ZONE 0/20

EX-protected hand lamp with power LED in angled shape is very bright and extremely light. Suitable for ZONE 0/20.

- Ex-proof accu LED angle light
- Illuminant POWER LED
- Robust plastic housing, shock-resistant
- Protection category IP67
- Illuminating duration up to 5 hours
- Headlamp head 90 ° angled, not adjustable
- 3x AAA Batterie inclusive
- Extremely light, only 280 g



Easy and handy

Technical details | Détails techniques | Technische details

Type	AccuLux HL 12 EX
Housing	Plastic, shock proof
Illuminant	POWER LED
Duration	ca. 5 h / 11 h
Lamp head	gewinkelt angled
Luminous flux	170 lm / 55 lm
Headlight range	ca. 200 m
Batteries	3x AAA inkl.
Protection category	IP65
Weight	280 g
Dimensions	61 mm x 90 mm x 200 mm
Art.-No.	290773



ATEX Identification

ATEX-Nr.: TÜV-A 16ATEX0003X

● II 1 G Ex ia IIC T4 Ga

● II 1 D Ex ia IIIC T 135°C Da

Hazard zone: 0, 1, 2 / 20, 21, 22





AccuLux HL 10 EX W



LED

170
Lumen

IP67

swiveling diffuser for long
and short rangepractical clip for
attachment to clothing

Ex-protected angle hand lamp with swiveling lens for near and far range.

- Ex-proof accu LED angle light
- Illuminant POWER LED
- Swiveling diffuser for long and short range
- Protection category IP67
- Corresponds to the fire department standard (gas area)
- Practical clip for attachment to clothing



Hingend diffuser



Side on/off switch and clamping clip

Technical details

Type	HL 10 EX W
Main lamp	POWER LED
Protection category	IP67
Weight	250 g
Dimensions	45 x 200 x 100 mm
Headlight range	ca. 150 m
Duration	ca. 11 h
Luminous flux	170 Lumen
Battery	4x AA Mignon
Housing	Plastic
Art.-No.	290778



ATEX Identification

AccuLux HL 10 EX W

ATEX-Nr.: TÜV-A 10ATEX0003

● ATEX Gas IIZGExibIICT4Gb



AccuLux HL 11 EX | HL 10 EX



LED

110
LumenIP68
IP67

HL 11 EX

ZONE 0/20



HL 10 EX



optional accessory: helmet attachment

Ex-proof HIGH-POWER-LED torch with light in weight. Ideal for the professional application as hand- or helmet light e.g. for firefighters.

- LED torch: ex-proof
- Illuminant: power LED
- HL 11 EX: EX zone 0, 1, 2, 20, 21, 22 | IP67
- HL 10 EX: EX zone 1, 2, 21, 22 | IP68
- Illuminating duration: ca. 11 h
- Headlight range: ca. 150 m
- Mountable at the protective helmet (Hook-and-loop fastener for helmet as accessories available)



High beam range

Technical details

Type	HL 10 EX	HL 11 EX
Main lamp	POWER LED	POWER LED
Protection category	IP67	IP68
Weight	195g	167g
Dimensions	175x47mm	172x41mm
Headlight range	ca. 150 m	
Duration	ca. 11 h	
Luminous flux	110 Lumen	
Battery	4x AA Mignon	
Housing	Plastic	
Art.-No.	290772	290771

ATEX Identification

AccuLux HL 11 EX

ATEX-Nr.: TÜV-A 16ATEX0003X

● II 1 G Ex ia IIC T4 Ga

● II 1 D Ex ia IIIC T 135°C Da

Hazard zone: 0, 1, 2 / 20, 21, 22

AccuLux HL 10 EX

ATEX-Nr.: TÜV-A 16ATEX0003X

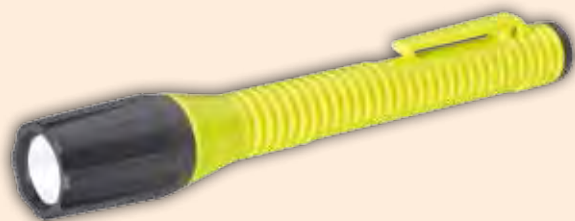
● II 2 G Ex ib IIC T4

● II 2 D Ex ibD 21 T 135°C

Hazard zone: 1, 2 / 21, 22



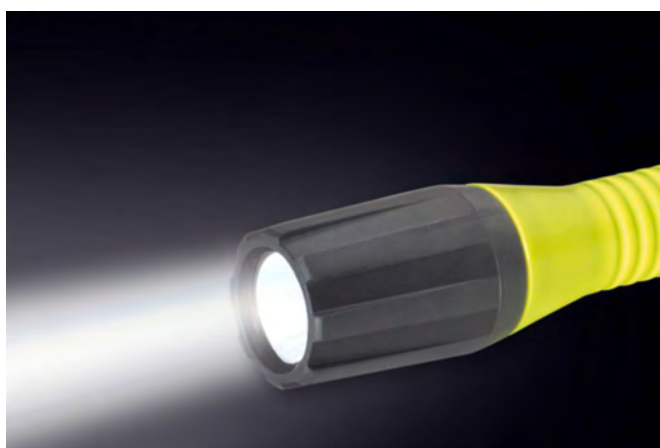
AccuLux MHL 5 EX



Small, compact and handy

Explosion-proof LED mini torch. With only 14,5 cm length and a weight of only 45 g it is the leader among comparable torch.

- Explosion-proof mini torch (battery operation)
- Illuminant: POWER LED
- Plastic housing, shock proof and waterproof
- Submersible: up to 3 m
- Protection category IP68
- Headlight range ca. 30 m
- Light weight: only 45 g



Lighting range approx. 30 m

Technical details

Type	AccuLux MHL 5 EX
Housing	Plastic, shock proof
Illuminant	POWER LED
Duration	ca. 4h
Luminous flux	ca. 42 Lumen*
Headlight range	ca. 30 m
Battery	2 x AAA Micro
Protection category	IP65
Weight	45 g
Dimensions	145 x 20 mm
Art.-No.	290649

*Luminous flux (Lumen) respectively maximal headlight range (Meter) measured by switch-on with a set of new battery. It is a matter of average values, which can differ through component tolerance about +/- 10%.

ATEX Identification

ATEX-Nr.: TÜV-A 13ATEX0004X

II 2 G Ex ib IIC T4 Gb

II 2 D Ex ib IIIC T 135°C Db

Hazard zone: 1, 2 / 21, 22





AccuLux STL 1 EX



LED

42
Lumen

IP67



The STL 1 EX is a high performance LED headlamp for use in hazardous areas (Zone 0).

- Ex-protected LED headlamp (battery operated)
- Light source CREE LED
- Robust housing
- Tilt angle adjustable
- Degree of protection IP67
- Lighting range: approx. 100 m
- Weight only 164 g



Robust case, bolted for security

Technical details

Type	AccuLux STL 1 EX
Illuminant	CREE LED
Duration	ca. 6,5 h (100%) / 13 h (50%)
Luminous flux	ca. 174 lm / ca. 90 lm
Headlight range	ca. 100 m
Battery	3 x AAA Alkali
Protection category	IP67
Weight	165 g
Art.-No.	290655



ATEX Identification

ATEX-Nr.: DEMKO 14 ATEX 1354X

II 1 G Ex ia IIC T4 Ga IP 67b

Hazard zone: 0 (alle Gase)

permalec

MATERIAL ELECTRICO INDUSTRIAL



PERMALEC INDUSTRIAS, S.L.

San Dalmacio, 20

28021 MADRID

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Soluciones móviles de distribución eléctrica e iluminación LED para aplicaciones industriales y zonas ATEX

permalec.com