



SAFETY IS OUR TOP PRIORITY.

Whether in the chemical sector, energy production or in heavy industry: Wherever flammable substances are produced, processed, transported or stored, safety plays a particularly important role. Our recommendation for ATEX-certified, quality GIFAS products can be found in this chapter.

| | |
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GAS

Electrical equipment for explosive gas atmospheres (Device group II [Chemistry])

| EPL | Standards IEC/EN | | Type of protection |
|-----|------------------|-------------------------|--|
| Ga | 60079-0 | | General requirements |
| | 60079-11 | ia | Intrinsic safety |
| | 60079-18 | ma | Encapsulation |
| | 60079-26 | | Equipment with equipment protection level (EPL) Ga |
| | 60079-28 | op is | Protection of equipment and transmission systems using optical radiation |
| Gb | 60079-1 | d | Flame-proof enclosure |
| | 60079-2 | p, px, py | Pressurised enclosure |
| | 60079-5 | q | Powder-filled enclosure |
| | 60079-6 | o | Oil immersion |
| | 60079-7 | e | Increased safety |
| | 60079-11 | ib | Intrinsic safety |
| | 60079-18 | mb | Encapsulation |
| | 60079-25 | | Intrinsically safe electrical systems |
| | 60079-27 | | Fieldbus intrinsically safe concept (FISCO) |
| | 60079-28 | op is op pr op sh | Protection of equipment and transmission systems using optical radiation |
| Gc | 60079-11 | ic | Intrinsic safety |
| | 60079-18 | mc | Encapsulation |
| | 60079-15 | nA | Type of protection «non-sparking» |
| | 60079-15 | nR | Steam cover |
| | 60079-15 | nL | Limited energy (old edition only) |
| | 60079-15 | nC | Sparking apparatus |
| | 60079-2 | pz | Pressurised enclosure |
| | 60079-28 | op is op pr op sh | Protection of equipment and transmission systems using optical radiation |

DUST

Electrical apparatus for use in the presence of combustible dust (Device group III)

| EPL | standards IEC/EN | | Type of protection |
|-----|------------------|----|--|
| Da | 60079-0 | | General requirements |
| | 60079-31 | ta | Protection by enclosures |
| | 60079-11 | ia | Protection by intrinsic safety (iaD IEC/EN 61241-11) |
| | 60079-18 | ma | Protection by encapsulation |
| Db | 60079-31 | tb | Protection by enclosures |
| | 60079-11 | ib | Protection by intrinsic safety (ibD IEC/EN 61241-11) |
| | 60079-18 | mb | Protection by encapsulation |
| | 61241-4 | pD | Protection by excessive pressure 'pD' |
| Dc | 60079-31 | tc | Protection by enclosures |
| | 60079-11 | ic | Protection by intrinsic safety |
| | 60079-18 | mc | Protection by encapsulation |
| | 61241-4 | pD | Protection by excessive pressure 'pD' |

Marking according to directive 94/9/EG (ATEX 95)

| Identification number of the notified body (responsible for quality assurance) | Category zones |
|---|------------------|
| 0102 Physikalisch-Technische Bundesanstalt PTB, Germany | 1 zones 0 / 20 |
| 0158 DEKRA EXAM GmbH, Germany | 2 zones 1 / 21 |
| 0032 TÜV CERT-Zertifizierungsstelle, Germany | 3 zones 2 / 22 |
| 0344 KEMA N.V., Netherlands | |
| 0081 LCIE Laboratoire Central des Industries Electriques, France | |
| 0080 INERIS, France | G = Gas |
| 1180 BASEEFA, Great Britain | D = Staub (Dust) |
| 1258 Electrosuisse SEV, Switzerland | |

CE 0102 **Ex** II 2G

Marking according EN 60079-0

| Equipment groups (Gas) | |
|------------------------|---|
| IIA | Acetone, ethane, benzene, automotive gasoline, butane, propane, methane |
| IIB | Ethylene, town gas |
| IIC | Hydrogen, acetylene |

| Temperature class | Max. surface temperature |
|-------------------|--------------------------|
| T1 | < 450 °C |
| T2 | < 300 °C |
| T3 | < 200 °C |
| T4 | < 135 °C |
| T5 | < 100 °C |
| T6 | < 85 °C |

Ex d IIC T5 Gb

| EPL | Standards IEC/EN | Type of protection |
|-----|------------------|--------------------------------------|
| Ga | 60079-11 | ia Intrinsic safety |
| | 60079-18 | ma Encapsulation |
| Gb | 60079-1 | d Flame-proof enclosure |
| | 60079-2 | p, px, py Pressurised enclosure |
| | 60079-7 | e Increased safety |
| | 60079-11 | ib Intrinsic safety |
| | 60079-18 | mb Encapsulation |
| Gc | 60079-15 | nA Type of protection "non-sparking" |
| | 60079-15 | nR Steam cover |
| | 60079-2 | pz Pressurised enclosure |

| zone | Equipment protection level (EPL) |
|------|----------------------------------|
| 0 | Ga |
| 1 | Gb and Ga |
| 2 | Gc, Gb and Ga |

Surface temperature
(see EN 60078-0)

CE 0102 **Ex** II 2D
II 2D

Ex tD A21 IP68 T95°C
Ex tb IIIC T95°C Db

| EPL | Standards IEC/EN | Type of protection |
|-----|------------------|-------------------------------------|
| Da | 60079-31 | ta Protection by enclosures |
| | 60079-11 | ia Protection by intrinsic safety |
| | 60079-18 | ma Protection by encapsulation |
| Gb | 60079-31 | tb Protection by enclosures |
| | 60079-11 | ib Protection by intrinsic safety |
| | 60079-18 | mb Protection by encapsulation |
| | 61241-4 | pD Protection by excessive pressure |
| Gc | 60079-31 | tc Protection by enclosures |
| | 61241-4 | pD Protection by excessive pressure |

| Equipment groups (Dust) | |
|-------------------------|---------------------|
| IIIA | Fibres |
| IIIB | non-conductive dust |
| IIIC | Conductive dust |

| Zone | Equipment protection level (EPL) |
|------|----------------------------------|
| 20 | Da |
| 21 | Db and Da |
| 22 | Dc, Db and Da |

| IP | First digit (against ingress of solid foreign bodies/against access to hazardous parts) = | Second digit (against ingress of water with damaging effects) |
|----|---|---|
| 4 | ≥ 1.0 mm diameter | Splash-proof |
| 5 | Dust-proof | Water jet |
| 6 | Dust-tight | Strong water jet |
| 7 | | Temporary immersion |
| 8 | | Continuous immersion |

FlutLED-Ex battery 10W



Portable Ex floodlight for flexible applications Easy to attach, bright light, robust design

Product features

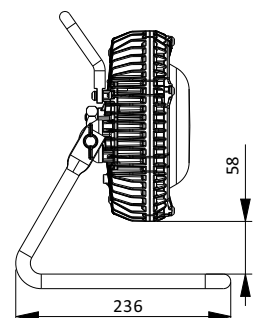
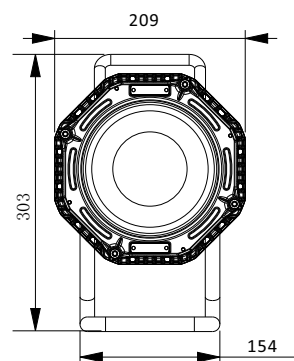
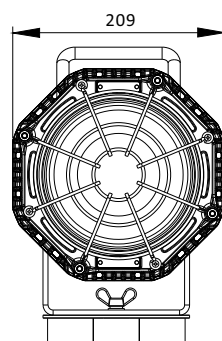
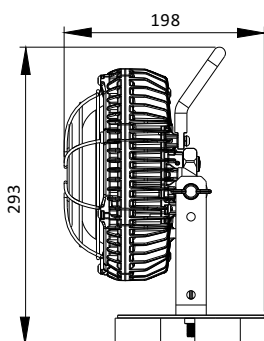
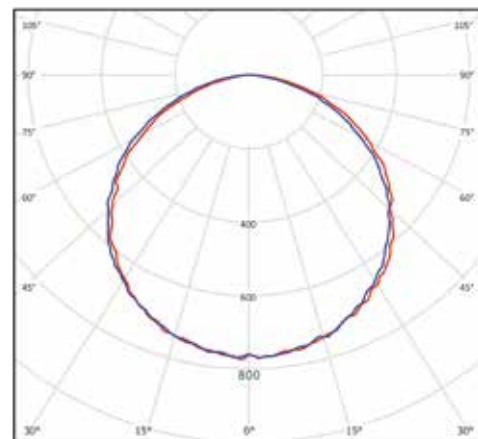
- flexible mounting on metal surfaces, thanks to an integrated magnet in the base of the lamp (art. no. 288400)
- flexible use thanks to robust stainless steel base (art. no. 321174)
- portable, handy design
- high luminosity
- shock- and vibration-proof due to hardened glass
- robust aluminium housing with anti-corrosion coating meets the requirements of emergency lighting (discharge time >10h)

Technical data

| | |
|--------------------------------|---|
| Labelling | Ex II 2 G Ex d IIC T6 Gb Ex II 2 G Ex tb IIIC T80°C Db |
| Ex zones | 1, 2, 21 and 22 |
| Input voltage | 100-277VAC (50/60Hz) |
| Power supply | Li-ion battery |
| Charging time | 3 hours |
| Light duration | max. 10h |
| Light source | SEOUL SMD-LEDs |
| System performance | 10W |
| System efficiency | 1365lm |
| Light colour | average 6000K |
| Service life | >50000h |
| Protection category | IP66 |
| Operating range of temperature | -20°C to +55°C |
| Weight | 6.5kg |
| Dimensions (WxDxØ) | 210x198x293mm |

| Item no. | Description |
|----------|--|
| 288400 | FlutLED-Ex battery 10W |
| 321174 | Floor frame for FlutLED-Ex battery 10W |

Light distribution measurements



Art.-Nr.: 288400
FlutLED Ex 10W mit Magnetfuß

Art.-Nr.: 321174
FlutLED Ex 10W mit Bodengestell

FlutLED-Ex 60W



FlutLED-Ex 60W is suitable for all areas that require efficient and extremely robust Ex-safe lighting with outstanding illumination. Areas of application include refineries, on drilling platforms, in the energy and chemical industry, in fire-fighting, in disaster protection, in tunnels and in ports.

Product features

- Thanks to their compact shape, the FlutLED-Ex 60W are especially suitable for use in small and confined spaces
- Reduced dazzle thanks to anti-glare surface, making them especially suitable for applications involving direct visual contact with the light source
- Casing made from highly stable aluminium alloy for applications in corrosive environments
- Shock and vibration-resistant, hardened glass reduces the risk of premature failure
- Explosion-protected, fire-resistant, water and salt water resistant, dust-proof

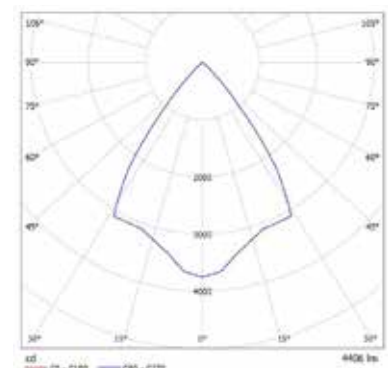
Technical data

| | |
|--------------------------------|--|
| Labelling | Ex II 2 G - Ex d IIC T5 Gb Ex II 2 D - Ex t IIIC T95°C Db |
| Ex zones | 1, 2, 21 and 22 |
| Input voltage | 24~48VAC/DC or 100~277VAC (50/60Hz) |
| Light source | OSRAM LED |
| System performance | 60W |
| Light current | 8190lm |
| System efficiency | 136lm/W |
| Light colour | average 6000K |
| CRI-index | Ra >80 |
| Beam angle | 80° or 120° |
| Service life | >50000h |
| Protection category | IP66 |
| Protection class | I |
| Operating range of temperature | -40° to +55°C |
| Housing | Die-cast aluminium |
| Cover | Glass |
| Weight | approx. 3.5kg |
| Dimensions (HxD) | 206x220mm |

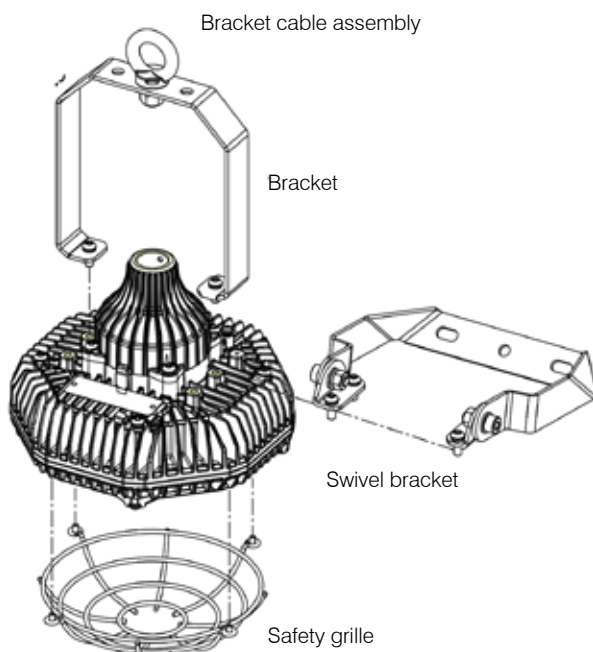
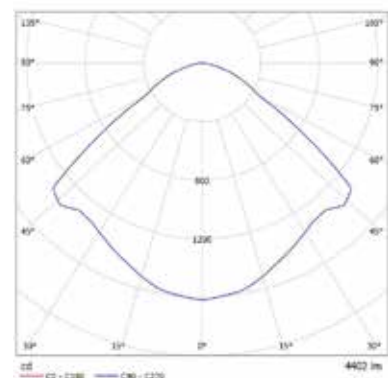
| Item no. | Description |
|-------------|--------------------------------------|
| 800019 | FlutLED-Ex/W60V230/80° |
| 800020 | FlutLED-Ex/W60V230/120° |
| 800021 | FlutLED-Ex/W60V24-48VAC/DC/80° |
| 800022 | FlutLED-Ex/W60V24-48VAC/DC/120° |
| Accessories | |
| 800034 | FlutLEDEx/W60.bracket |
| 800035 | FlutLEDEx/W60.bracket cable assembly |
| 800036 | FlutLEDEx/W60.swivel bracket |
| 800037 | FlutLEDEx/W60.safety grille |

* Essential accessory 800036 swivel bracket

Light distribution measurements 80°



Light distribution measurements 120°



Supplied state:
The light comes without accessories as standard!

FlutLED-Ex 3 120W / 150W

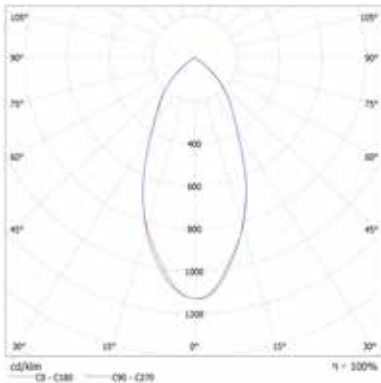


FlutLED-Ex 120W and 150W are suitable for all areas that require efficient and extremely robust Ex-safe lighting. With their excellent illumination, these Ex lights are used in refineries, the energy and chemical industry, on drilling platforms, in fire-fighting, in disaster protection and also as stadium lighting.

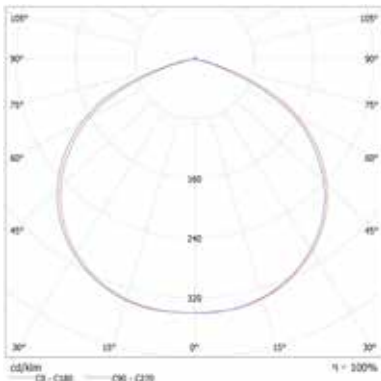
Product features

- High luminous efficacy
- Shock and vibration resistant
- Robust aluminium housing with anti-corrosion coating
- Tempered glass front cover
- Optimum light distribution for different applications
- Through-wiring possible
- Cable gland Ex M20 x 1.5 and an M20 blanking plug included in delivery

Light distribution measurements 60°



Light distribution measurements 120°



Technical data

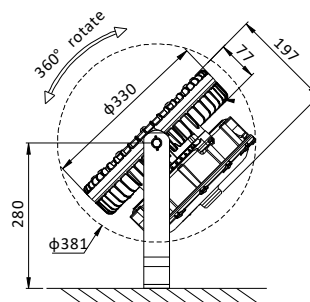
| | |
|--------------------------------|--|
| Labelling | Ex II 2 G - Ex db IIC T4/T5 Gb |
| | Ex II 2 D - Ex tb IIIC T105°/T95°C Db IP66 |
| Ex zone | 1, 2, 21 and 22 |
| Input voltage | 100-277VAC (50/60Hz) |
| System performance | 120W/150W |
| Surge protection | 5kV |
| Light current | |
| - 60° | 13920lm/17400lm |
| - 120° | 16380lm/20475lm |
| System efficiency | |
| - 60° | 116lm/W |
| - 120° | 136lm/W |
| Light colour | average 5700K |
| Service life | >50000h |
| CRI | 70 |
| Protection category | IP66 |
| Operating range of temperature | -40°C to +55°C |
| Housing colour | RAL 7040 |
| Weight | 11kg |
| Dimensions (ØxH) | 330x197mm |

| Item no. | Description |
|-------------|----------------------------------|
| 316514 | FlutLED-Ex 3/W120/60° |
| 316515 | FlutLED-Ex 3/W120/120° |
| 316516 | FlutLED-Ex 3/W150/60° |
| 316517 | FlutLED-Ex 3/W150/120° |
| Accessories | |
| 316518 | Swivel bracket, Stainless steel* |
| 316519 | Suspension ring, Stainless steel |
| 316520 | Protective grille |

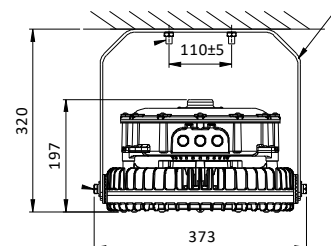
* Essential accessory 316518 swivel bracket

Installation options with the swivel bracket:

Floor, wall or ceiling mounting



Floor mounting



Wall or ceiling mounting

Optional on request
with battery pack for emergency light 10W / 180 min.

Supplied state:
The light comes without accessories as standard!

SPARTAN Bulkhead Ex



Emergency light 3h

The SPARTAN Bulkhead Ex is suitable for all areas that require an efficient and extremely robust Ex light. With its excellent light output and a housing made of corrosion-resistant Aluminum LM6 of marine quality (protection class IP67), this Ex-luminaire is used, among other things, in the refinery, energy and chemical industries as well as on drilling platforms. SPARTAN Bulkhead Ex is optionally available as an emergency light. The Standard variants can be made on site at any time with the help of an additional Battery backup module, which can provide 100% light output in an emergency, can be converted into an emergency light.

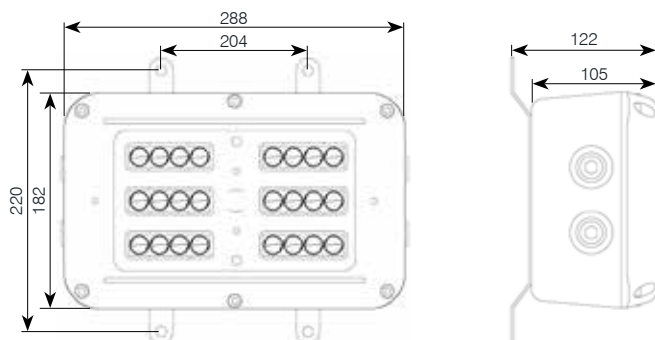
Product features

- self test function
- three-colour status display battery
- Emergency lighting up to 3 hours at 25 % light output
- Battery Ni / Cd 12 V

Technical data

| | |
|------------------------|--|
| Ex ATEX | ATEX and IEC Ex for gas and dust |
| Ex zone | 1 and 21 |
| Certificate | CML13ATEX3007 & IECEx CML14.0001 UL/CSA pending, incl. C1D2 |
| Gas | II 2 G D Ex e mb op is IIC T4 Gb |
| - Standard | -52°C to +55°C |
| - Emergency light | -20°C to +46°C |
| Dust | Ex tb op is IIC T98°C Db |
| - Standard | -52°C to +55°C |
| - Emergency light | -20°C to +46°C |
| Protection category | IP67 |
| Optics | 120° symmetrical |
| Luminous flux | 2500 lm |
| Number of LED | 24 |
| CRI | >80 |
| Colour temperature | 6000 K |
| Input voltage | 110 - 254 V 50/60 Hz |
| System performance | 34 W Standard |
| Power factor | >0,95 |
| Weight | |
| - Standard 34 W | 8 kg |
| - Emergency light 37 W | 10 kg |

| Item no. | Description |
|-------------|---|
| 300502 | SPARTAN Bulkhead Ex, 24 LED, 34 W, 230 VAC, 6000 K, 2500 lm, zones 1/21 |
| 300503 | SPARTAN Bulkhead Ex, 24 LED, 37 W, 230 VAC, 6000 K, 2500 lm, zones 1/21 – with emergency light function 25% |
| Accessories | |
| on request | Stanchion mount for SPARTAN Bulkhead Ex |
| on request | Cable gland Ex, M20×1.5, IP68, plastic, black, 9 mm/ø6 - 12 mm |



Optional on request

- Symmetrical optics 10° / 30° / 50°
- Asymmetrical optics 35°x10° / 60°x25° / 80°x30° / 120°x50°
- Version for low voltage without emergency light function 12 VAC, 18-48 VAC, 18-69 VDC
- Version for zone 2, 22
- Emergency light with 100% light output
- Illuminated signs, e.g. EXIT

Scope of delivery: without cable gland, 3 pieces of Ex-blind plugs M20

SPARTAN Fluter Ex



Certificate 120W

| | |
|-------------|---|
| Certificate | CML21ATEX3317 & IEC Ex CML21.0037 or CML21UKEX3319 |
| Gas | Ex II 2 G D - Ex db eb mb op is IIB T4 Gb -40°C to +60°C |
| Dust | Ex tb op is IIC T104° C Db -40°C to +60°C |

The SPARTAN floodlight Ex is suitable for all areas that require an efficient and extremely robust Ex luminaire. With its excellent light output and a housing made of corrosion-resistant marine-grade LM6 aluminium (IP67 protection), this Ex luminaire is used in the refinery, energy and chemical industries, as well as on drilling platforms. The SPARTAN floodlights Ex integrate the latest high-power LEDs (25000 lumens) with field-proven LED management and optics technology. In addition, the SPARTAN Floodlights Ex feature an intelligent and fully programmable DALI-capable driver for seamless integration into your existing lighting infrastructure.

Product features

- High luminous efficacy
- robust aluminium housing with anti-corrosion coating
- optimal light distribution for different applications

Technical Data

| | |
|---------------------|-----------------------------------|
| ATEX | ATEX and IEC Ex for gas and dust |
| Ex zone | 1 (gas) and 21 (dust) |
| Input voltage | 150-264 VAC 50/60Hz |
| Power factor | >0.95 |
| Luminous flux | 15000lm / 25000lm |
| System performance | 120W / 300W |
| Number of LED | 48 / 24 |
| CRI | |
| 120W | Ra >70 |
| 300W | Ra >80 |
| Colour temperature | 5000K |
| Service life | >50000h |
| Optics | 90° symmetrical , 30° symmetrical |
| Protection category | IP67 |
| Dimensions (HxWxD) | |
| 120W | 609x350x109mm |
| 300W | 639x350x151mm |
| Weight | 13.2kg / 23.5kg |



Certificate 300W

| | |
|-------------|---|
| Certificate | CML 17ATEX1148 AND IEC Ex CML 17.0074 |
| Gas | Ex II 2 G D - Ex db eb mb op is IIB T4 Gb -50°C to +50°C |
| Dust | Ex tb op is IIC T104° C Db -50°C to +50°C |

| Item no. | Description |
|----------|---|
| 327835 | SPARTAN Floodlight Ex, 48 LED, 120W, 230VAC, 5000K, 15000lm, 30°, for zone 1/21 |
| 327834 | SPARTAN Floodlight Ex, 48 LED, 120W, 230VAC, 5000K, 15000lm, 90°, for zone 1/21 |
| 300490 | SPARTAN Floodlight Ex, 24 LED, 300W, 230VAC, 5000K, 25000lm, 30°, for zone 1/21 |
| 300491 | SPARTAN Floodlight Ex, 24 LED, 300W, 230VAC, 5000K, 25000lm, 90°, for zone 1/21 |

| Accessories | |
|-------------|--|
| on request | Cable gland Ex, M20×1.5, IP68, plastic, black, 9mm/ø6-12mm |

Optional on request

- Luminous flux 10000lm or 20000lm
- Symmetrical optics 60°
- Version for zone 2, 22

Scope of delivery: without cable gland, 1 piece of Ex-blind plugs M20

SPARTAN High Power Baylight Ex



Certificate 120W

| | |
|-------------|--|
| Certificate | CML21ATEX3317 & IEC Ex CML21.0037 or CML21UKEX3319 |
| Gas | II 2 G D Ex eb mb IIC T4 Gb -40°C to +60°C |
| Dust | Ex tb IIC T90°C Db -40°C to +60°C |



Certificate 300W


| | |
|-------------|--|
| Certificate | CML 17ATEX1148 AND IEC Ex CML 17.0074 |
| Gas | Ex II 2 G D - Ex db eb mb op is IIB + H2 T4 Gb -50°C to +50°C |
| Dust | Ex tb op is IIC T104° C Db -50°C to +50°C |

The SPARTAN High Power Baylight Ex is suitable for all areas that require an efficient and extremely robust Ex luminaire. With its excellent light output and a housing made of corrosion-resistant marine grade aluminium LM6 marine-grade aluminium (IP67 protection), this Ex luminaire is used in the refinery, energy and chemical industries, as well as on drilling platforms. The luminaire integrates the latest high-power LEDs (25,000 lumens) with field-proven LED management and optics technology. It also features an intelligent and fully programmable DALI-enabled driver for seamless integration into your existing lighting infrastructure. The SPARTAN High Power Baylights are equipped with symmetrical 60° optics in the standard version. Variants with 30° or 90° optics are also available on request.

Product features

- High luminous efficacy
- robust aluminium housing with anti-corrosion coating
- optimal light distribution for different applications

Technical Data

| | |
|--|----------------------------------|
|  ATEX | ATEX and IEC Ex for gas and dust |
| Ex zone | 1 (gas) and 21 (dust) |
| Input voltage | |
| 120W | 110 - 277 VAC 50/60 Hz |
| 300W | 150 - 264 VAC 50/60 Hz |
| Power factor | >0.95 |
| Luminous flux | 15000lm / 25000lm |
| System performance | 120W / 300W |
| Number of LED | 48 / 24 |
| CRI | |
| 120W | Ra >70 |
| 300W | Ra >80 |
| Colour temperature | |
| 120W | 5700K |
| 300W | 5000K |
| Optics | 60° symmetrical |
| Protection category | IP66 / IP67 |
| Dimensions (HxWxD) | |
| 120W | 446x382x165mm |
| 300W | 550x353x164mm |
| Weight | 13.2kg / 22.7kg |

| Item no. | Description |
|----------|--|
| 328780 | SPARTAN High Power Baylight Ex, 48 LED, 120W, 230VAC, 5000K, 15000lm, 60°, for zone 1/21 |
| 300494 | SPARTAN High Power Baylight E, 24 LED, 300W, 230VAC, 5700K, 25000lm, 60°, for zone 1/21 |

Optional on request

- Symmetrical optics 30° or 90°
- Luminous flux 10000lm or 20000lm
- Version for zone 2, 22

Scope of delivery: without cable gland, 3 pieces of Ex-blind plugs M20

SPARTAN Ex-Langfeldleuchte



Emergency light 3h

The SPARTAN Ex linear luminaire is suitable for all areas that require an efficient and extremely robust Ex luminaire. With its excellent light output and a housing made of corrosion-resistant LM6 marine-grade aluminium (protection class IP67), this Ex luminaire is used in the refinery, energy and chemical industries, as well as on drilling platforms, among others. The SPARTAN Ex linear luminaire is also available as an emergency luminaire that can provide up to 100 % light output under emergency conditions. All SPARTAN Ex linear luminaires are equipped with intelligent battery management to proactively monitor and maintain the overall condition of your luminaire.

Product features

- self test function
- three-colour status display battery
- Emergency lighting up to 3 hours at 25 % light output
- Battery Ni / Cd 12 V

Technical data

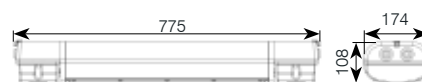
| | |
|-----------------------|--|
| ATEX | ATEX and IEC Ex for gas and dust |
| Ex zone | zone 1 (gas), zone 21 (dust) |
| Certificate | CML14ATEX3119 & IECEx CML15.0001 UL/CSA, incl. C1D2 |
| Gas | II 2 G D Ex e mb op is IIC T5 Gb |
| - Standard | -40°C to +55°C |
| - Emergency light | -20°C to +50°C |
| Dust | Ex tb op is IIC T75°C Db |
| - Standard | -40°C to +55°C |
| - Emergency light | -20°C to +50°C |
| Protection category | IP67 |
| Optics | 120° |
| Luminous flux | 2500lm, 5000lm |
| Number of LED | 84 / 168 |
| CRI | Ra >80 |
| Colour temperature | 6000K / green 519nm |
| Input voltage | 110-254V 50/60Hz |
| System performance | 34W Standard, 68W Standard |
| Power factor | >0.95 |
| Weight | |
| - Standard 34W | 6.6 kg |
| - Emergency light 37W | 7.6 kg |
| - Standard 68W | 9 kg |
| - Emergency light 71W | 10 kg |

| Item no. | Description |
|----------|---|
| 300496 | SPARTAN Linear fluorescent luminary Ex, 84 LED, 34 W, 230 VAC, 6000 K, 2500 lm, zones 1/21 |
| 300498 | SPARTAN Linear fluorescent luminary Ex, 84 LED, 37 W, 230 VAC, 6000 K, 2500 lm, zones 1/21 with emergency light function 25% |
| 300499 | SPARTAN Linear fluorescent luminary Ex, 168 LED, 68 W, 230 VAC, 6000 K, 5000 lm, zones 1/21 |
| 300500 | SPARTAN Linear fluorescent luminary Ex, 168 LED, 71 W, 230 VAC, 6000 K, 5000 lm, zones 1/21 with emergency light function 25% |
| 300501 | SPARTAN Linear fluorescent luminary green Ex, 84 LED, 32 W, 230 VAC, 519 nm, zones 1/21 |

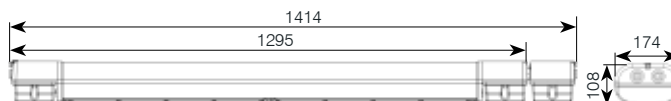
Accessories

| | |
|------------|---|
| on request | Cable gland Ex, M20×1.5, IP68, plastic, black, 9mm/ø6-12mm |
| on request | Ceiling mounting kit for SPARTAN Linear fluorescent luminary Ex (set of 2 mounts) |
| on request | Swivel bracket mounting kit for SPARTAN Linear fluorescent luminary Ex for wall or ceiling mounting (set of 2 mounts) |
| on request | Magnet mounting set for SPARTAN Linear fluorescent luminary Ex (set of 2 magnets) |
| on request | Eye bolt kit M8 for SPARTAN Linear fluorescent luminary Ex (set of 2 eye bolts) |
| on request | Suspension cord kit / anti-fall protection 500mm for SPARTAN Linear fluorescent luminary Ex |

Item no. 300496, 300498 and 300501



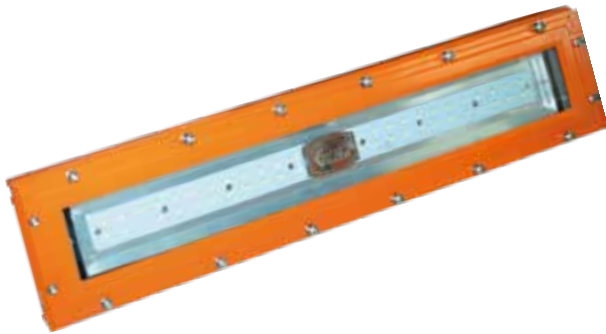
Item no. 300499 and 300500



Optional on request
- Version for zone 2, 22

Scope of delivery: without cable gland, 3 pieces of Ex-blind plugs M20

Ex strip luminaire



The Ex strip luminaire is suitable for all areas that require efficient and extremely robust Ex-safe lighting. The robust aluminium casing can withstand forces of up to 10 Joule. The high IP66 protection category makes this light suitable for even the most challenging of locations, and ensures it is able to withstand even corrosive applications and salt water.

Technical data

| | |
|--------------------------------|--|
| Labelling | Ⓔ II 2 G Ex d eb IIB T6 Gb Ⓔ II 2 D Ex tb IIIC T80°C Db |
| Ex zone | 1, 2, 21 and 22 |
| Input voltage | 100~277VAC (50/60Hz) |
| Light source | SEOUL SMD-LEDs |
| System performance | 36/56W |
| Light current | 4567lm / 7336lm |
| Light colour | average 6000K |
| Service life | >50000h |
| Protection category | IP66 |
| CRI-Index | Ra >80 |
| Operating range of temperature | -40°C to +55°C |
| Weight | 6.4kg / 8.7kg |
| Dimensions (WxHxL) | 187x80x600mm / 187x80x1.130mm |

| Item no. | Description |
|----------|---|
| 800023 | Ex strip luminaire 36W 120°, incl. mounting bracket |
| 800024 | Ex strip luminaire 56W 120°, incl. mounting bracket |



The Ex linear luminaire is suitable for all areas that require an efficient and extremely robust Ex luminaire. Thanks to the high protection rating of IP66, this luminaire is suitable for the most demanding locations and can even withstand corrosive applications and salt water.

Technical data

| | |
|--------------------------------|--|
| Labelling | Ⓔ II 2 G Ex d eb IIB T6 Gb Ⓔ II 2 D Ex tb IIIC T80°C Db |
| Ex zone | 1, 2, 21 and 22 |
| Input voltage | 100 bis 277 VAC |
| Light source | SEOUL SMD-LED's |
| System performance | 36W / 56W |
| Light current | 4910lm / 7640lm |
| Light colour | im Mittel 5700K |
| Beam angle | 120° |
| Service life | >50000h |
| Protection category | IP66 |
| Impact resistance | IK08 |
| CRI-Index | Ra >80 |
| Operating range of temperature | -20°C to +55°C |
| Housing colour | Grey RAL7040 |
| Weight | 6.4kg / 8.7kg |
| Dimensions (WxHxL) | 136x85x600mm / 136x85x900mm |

| Item no. | Description |
|----------|--|
| 800492 | Ex long field/W36V230/120°, incl. mounting bracket |
| 800493 | Ex long field/W56V230/120°, incl. mounting bracket |

Ex protective tube light LED



Ex-protected machine light with LED technology, especially for local lighting of spaces and machinery or their sub-areas in explosion-risk areas of zones 1 and 2 as well as 21 and 22.

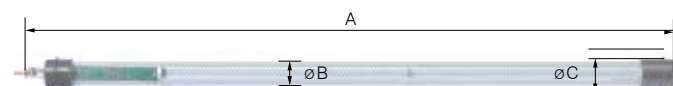
Product features

- High-efficiency LED technology
- Extremely long service life
- No bulb change required at any point in the light's lifetime
- Various operating voltages
- Robust protective tube made from polycarbonate

Technical data

| | |
|--------------------------------|---|
| Labelling | Ex II 2 G Ex d IIC T5 Gb Ex II 2 D Ex tb IIIC T95°C Db |
| EC type approval certificate | BVS 07 ATEX E 164 X |
| International approval | IECEx BVS 08.0014 X |
| Protection category | IP68 (2.5 m over 24 hours) |
| Operating range of temperature | -20°C to +60°C |
| Standard connection | Cable 5 m 3x1 mm ² , without plug |

| Item no. | Voltage | A (mm) | B (mm) | C (mm) | Weight |
|----------|-------------------|--------|--------|--------|----------------|
| 287678 | 12-24 VDC-6W, | 581 | 43 | 66 | Approx. 1.5 kg |
| 288882 | 24-50 VAC/DC-6W | 581 | 43 | 66 | Approx. 1.5 kg |
| 286926 | 120-264 VAC/DC-6W | 581 | 43 | 66 | Approx. 1.5 kg |
| 287692 | 85-265 VAC-25W | 1.601 | 60 | 82 | Approx. 4.0 kg |
| 287693 | 85-265 VAC-36W | 1.901 | 61 | 82 | Approx. 4.1 kg |



Accessories for wall mounting available on request!

Ex tubular light LED



Ex-protected tubular luminaire with highly efficient LED technology and protective tube made of impact-resistant polycarbonate, especially for local illumination of rooms and machines or their sub-areas, in hazardous areas of zones 1 and 2 as well as 21 and 22.

Product features

- highly efficient white LED technology
- extremely long service life
- no lamp replacement during the entire service life of the luminaire
- various operating voltages
- robust protective tube made of polycarbonate

Technical data

| | |
|--------------------------------|---|
| Labelling | Ex II 2 G Ex d IIC T4 Gb Ex II 2 D Ex tb IIIC T100 °C Db |
| Ex zone | 1, 2, 21 and 22 |
| Operating voltage | 24-48VAC/VDC 110-240VAC/VDC |
| Light source | LED |
| Power | 13W |
| Luminous flux | 1396lm |
| Light colour | 5000K |
| Voltage frequency | 50-60 Hz/DC |
| Housing | Aluminium |
| Standard connection | H07RN-F 2x1.5 mm ² |
| Protection category | IP66 / IP67 |
| Operating range of temperature | 24-48VAC -40°C to +60 °C 230VAC -30°C to +60 °C |
| Weight | 1.5kg |
| Dimensions (LxD) | 595 x 52 mm |

| Item no. | Description |
|----------|---|
| 316165 | LED inspection light for Ex zones 1, 2, 21 and 22, 24-48VAC/VDC / 5000K / IP66/67 / SKIII |
| 316166 | LED inspection light for Ex zones 1, 2, 21 and 22, 230VAC/VDC / 5000K / IP66/67 / SKIII |

FlashLED2 Ex LED battery light



5.5 Emergency light



Wall mount

Our FlashLED 2 series is now also available in the revised generation as an Ex work and inspection light with an emergency light function. The FlashLED 2 Ex is a powerful and robust LED luminaire for daily use in harsh industrial environments. The built-in 6x1.6W power LEDs are supplied by a rechargeable lithium polymer battery and enable hours of work in the brightest light. In the event of a power failure, the lamp switches itself off automatically in charging mode automatically with emergency light.

The luminaire lies through the ergonomically designed plastic handle good in the hand and offers optimal slip resistance thanks to its good feel. The user-friendly switch-on mechanism with a large control panel also simplifies handling - even when wearing gloves.

The FlashLED 2 Ex fulfils the requirements of the Low Voltage Directive 2014/35/EU, the Directive 2014/30/EU concerning electromagnetic compatibility and the ATEX Directive 2014/34/EU.

Product features

- At least 8 hours of light in three selectable operating modes:
 1. Spot: Focussed, narrow and broad light beam
 2. Wide: Room illuminating, energy-efficient lighting
 3. High beam: Widely radiating beam of light
- Memory function (last setting is retained)
- Corrosion-resistant charging pins (gold-plated spring steel)
- Overcurrent, temperature and deep discharge protection
- Vertically swivelling luminaire head
- Compact design
- Flashing mode

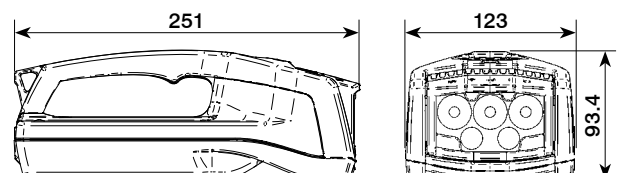
Technical data

| | |
|--------------------------------|---|
| Labelling | Ⓜ II 2G Ex ib IIC T4 Gb Ⓜ II 2D Ex ib IIC T135°C Db |
| ATEX certification number | SEV 20 ATEX 0436 X |
| Explosion-proof according to | EN IEC 60079-0:2018 (general requirements) EN 60079-11:2012 (intrinsic safety) |
| Ex zone | 1, 2, 21 and 22 |
| Operating voltage | 10-32VDC |
| Electric power supply | LiPo 7.4V - 3,500mAh |
| Charging time | 6.5h |
| Light duration | |
| - Spot (3 LED) | 15h |
| - Wide (2 LED) | 26h |
| - Full light (5 LED) | 9.5h |
| - Emergency light | 5.5h |
| Light source | 5x1.6W Power LEDs, white 5,000K |
| Luminous flux | 888lm |
| Protection category | IP65 |
| Permitted ambient temperature | -20°C < Ta < +50°C |
| Temperature class | T4 |
| Gas group | IIC |
| Dust group | IIIC |
| Weight | 1.1kg |
| Dimensions (LxWxH) | |
| - light excl. charging station | 123x251x93.4mm |
| - light incl. charging station | 149x323x108mm |

Charging station

| | |
|------------------------------|--|
| Operating voltage | 230 VAC (85 - 264 VAC) or 12 - 24 VDC |
| Protection category | IP20 |
| Protection class 230 VAC | II |
| Protection class 12 - 24 VDC | III |
| Dimensions (LxWxH) | 149 × 276 × 95 mm |
| Weight | 430 g |

| Item no. | Description |
|----------|---|
| 861199 | FlashLED 2 Ex work and inspection luminaires with emergency light function excl. charging station |
| 860026 | FlashLED charging station 230VAC, incl. 1.5m cable and euro-plug (not ex compliant) |
| 860027 | FlashLED charging station 12-24VDC, with plug-in connection (without cable/not ex compliant) |



TorchLED-Ex torch light

TOP!



Emergency light 7h

The popular TorchLED work and inspection luminaire with emergency lighting function is now also available in an Ex-version. The luminaire is equipped with a rechargeable lithium polymer (LiPo) battery has to be charged outside the ex-zone. The TorchLED Ex fulfils the requirements of the Low Voltage Directive 2006 / 95 / EC, the Directive 2004 / 108 / EC concerning electromagnetic compatibility and the ATEX Directive 94 / 9 / EC.

Product features

- at least 3 hours of light in three selectable operating modes:
 1. Spot: Focussed, narrow and broad light beam
 2. Wide: Room illuminating light
 3. High beam: Widely radiating beam of light
- memory function (last setting is retained)
- corrosion-resistant charging pins (gold-plated spring steel)
- overcurrent, temperature and deep discharge protection
- compact design



Item no. 860999



Item no. 860998

Technical Data TorchLED Ex

| | |
|--|---|
| Housing colour | black |
| Operating voltage | 6VDC |
| Electric power supply | LiPo 7.4V - 820 mAh |
| Charging time | approx. 5 h |
| Light duration factory settings (max. light power) | |
| - Spot (1 LED) | approx. 7 h |
| - Wide (1 LED) | approx. 7 h |
| - Full light (2 LED) | approx. 3.5 h |
| - Emergency light | approx. 7 h |
| Illuminant | 2 Power-LED à 1.6W, cool white 5,000 K |
| Protection category light | IP54 |
| Dimensions (W×L×H) | |
| - Light excl. charging station | 116×68×34 mm |
| - Light incl. charging station | 148×87×44 mm |
| Weight light | 182 g |
| ATEX certification number | SEV 22 ATEX 0644 X |
| Explosion-proof according to | EN 60079-0:2018 (general requirements) EN 60079-11:2012 (intrinsic safety) |
| Zones | 1, 2, 21 and 22 |
| Permitted ambient temperature | -20°C < Ta < +45°C |
| Labelling | II 2 G Ex ib IIC T4 Gb II 2 D Ex ib IIIC T135°C Db |

Technical Data Charging station

| | |
|-------------------------------|--------------------|
| Operating voltage | 100-240VAC 50/60Hz |
| Protection category | IP44 |
| Protection class 230VAC | II |
| Protection class 12-48VDC | III |
| Dimensions (L×W×H) | 87×81×44 mm |
| Weight 12-48V/230V | 70 g/80 g |
| Permitted ambient temperature | 0°C to +40°C |

| Item no. | Description |
|--------------------|---|
| 862000 | TorchLED Ex torch light 6VDC, excl. charging station |
| Accessories | |
| 860998 | TorchLED charging station 230 VAC, incl. 1.5 m cable and euro-plug |
| 860999 | TorchLED charging station 12-48 VDC, with 1.5 m cable, without plug |

UK 4AA eLED



The 4AA eLED RFL is a safe LED flashlight. Certified for use in hazardous areas. It was developed to offer you safe lighting in every situation. It is lighter and more compact than all other 4AA lamps on the market and therefore easy to use and store in jacket pockets, in a shirt, in a tool box or on a protective helmet.

Product features

- Patented optical system centers 89% of the lumens in the center beam
- soft wide-angle beam, ideal for illuminating wide areas
- Can be attached by means of helmet holder to work and safety helmet

Technical Data

| | |
|------------------------|--|
| Labelling | ⚠ II 1G Ex ia op is IIC T4 Ga ⚠ II 1D Ex ia op is IIIC T75°C Da |
| Ex zone | 0, 20 |
| Light source | LED |
| Battery | 4xAA Alkaline |
| Luminous flux | 225lm |
| Light range | 192m |
| Light duration | 6,5h |
| Protection category | IP67 |
| Housing | PC/ABS/LEXAN |
| Dimensions (HxL) | 158x41x36mm |
| Weight incl. batteries | 156g |

UK 4AA eLED SUREFOOT



The 4AA eLED SUREFOOT is a safe LED flashlight. Certified for use in hazardous areas. A first class tool for poorly lit work areas. The primary beam shines forwards, the secondary beam shines downwards. The burning time does not decrease even when used simultaneously! Particularly recommended for use in deep sewer road construction, heating & sanitary, electrical and metal industry.

Product features

- the primary beam (170 lumen) is directed to the front, the secondary beam (20 lumen) is directed downwards to the footpath for safe illumination
- can be attached to work and safety helmets by means of a helmet holder
- Especially recommended for use in civil engineering, sewer road construction, heating, plumbing, electrical and metal industries
- Front switch (for primary light) and rotary head switch (for secondary light)

Technical Data

| | |
|------------------------|--|
| Labelling | ⚠ II 1G Ex ia op is IIC T4 Ga ⚠ II 1D Ex ia op is IIIC T75°C Da |
| Ex zone | 0, 20 |
| Light source | LED |
| Battery | 4xAA Alkaline |
| Luminous flux | 170lm (primary) / 20lm (secondary) |
| Light range | 192m |
| Light duration | 6,5h |
| Protection category | IP67 |
| Housing | PC/ABS/LEXAN |
| Dimensions (HxL) | 158x41x36mm |
| Weight incl. batteries | 156g |

| Item no. | Description |
|----------|--|
| 294177 | Ex-UK 4AA eLED RFL, safety-yellow, incl. 4AA-batteries |

| Item no. | Description |
|----------|---|
| 294179 | Ex-UK 4AA eLED SUREFOOT, safety-yellow, incl. 4AA-batteries |

UK 2AAA eLED PEN I



The 2AAA eLED PEN I generates a narrow, concentrated light beam. The rubberized lamp head prevents glare. The 2AAA PEN I is easy to attach to a shirt pocket so that it can be carried anywhere and is always ready for use. An optionally available light guide attachment with a double lens system brings the light precisely to the places that would otherwise not be accessible.

Product features

- 3 times brighter than conventional pin lamps
- Rubberized lamphead reduces glare
- rubberized rear pressure switch
- electrically non-conductive, corrosion-resistant
- integrated clip holder
- ABS and polycarbonate housing -
- optionally available: Beamguide - fiber optic attachment

Technical Data

| | |
|------------------------|--|
| Labelling | Ex II 1G Ex ia op is IIC T4 Ga Ex II 1D Ex ia op is IIIC T75°C Da |
| Ex zone | 1, 21 |
| Light source | LED |
| Battery | 2xAAA Alkaline |
| Luminous flux | 35lm |
| Light range | 64m |
| Light duration | 3h |
| Protection category | IP67 |
| Housing | PC/ABS |
| Dimensions (HxL) | 132x24x22mm |
| Weight incl. batteries | 53g |

| Item no. | Description |
|----------|--|
| 294183 | Ex-UK 2AAA eLED PEN I, safety-yellow, incl. 2AAA-batteries |

UK 3AAA eLED VIZION I



The Vizion I is a real industrial head lamp. She directs the bright, centered beam where you need it. 3 beam shapes (spot, scattered light and red scattered light) can be selected as well as two power levels. In addition, the LED lamp module can be removed from the lamp and used as an emergency light / work light. This lamp is remarkably light, waterproof and extremely robust. Regardless of whether it is at sub-zero temperatures or in a wet environment, it can be used anywhere.

Product features

- 3 beam shapes (spot, scattered light/ scattered light red)
- two power levels (high and low)
- rubberized, non-slip rotary head switch
- electrically non-conductive, corrosion-resistant
- can be attached to work and safety helmets
- LED lamp module is removable and can be used as a portable work lamp
- high-impact-resistant construction made of ABS, LEXAN®

Technical Data

| | |
|------------------------|--|
| Labelling | Ex II 1G Ex ia op is IIC T4 Ga Ex II 2D Ex ia op is IIIC T55°C Db |
| Ex zone | 0, 21 |
| Lichtquelle | eLED |
| Battery | 3xAAA Alkaline |
| Luminous flux | 65 / 35lm |
| Light range | 150-60m |
| Light duration | 13h |
| Protection category | IP67 |
| Housing | PC/ABS |
| Dimensions (HxL) | 77x38x46mm |
| Weight incl. batteries | 111g |

| Item no. | Description |
|----------|---|
| 294185 | Ex-UK 3AAA eLED VIZION I, safety-yellow, with rubber headband, incl. 3 x AA-batteries |

1975Z0 LED



If you need the latest and brightest LED technology in a compact design, choose the new 1975Z0 LED. Small enough to fit in your breast pocket, yet bright enough to illuminate your work area. Long-lasting, energy-saving and bright LEDs in a compact package make the 1975Z0 LED the safety-approved lamp for the job.

Product features

- pressure switch on luminaire body
- compact, lightweight and with enormous LED power
- ATEX certified
- housing made PC/PBT
- luminaire is resistant to corrosion and extreme temperatures
- submersible

Technische Daten

| | |
|------------------------|---------------------------|
| Labelling | Ex II 1 G Ex ia IIC T4 Ga |
| Ex zone | 0 |
| Lichtquelle | LED |
| Battery | 2xAAA Alkaline |
| Lichtstrom | 117lm |
| Light range | approx. 24m |
| Light duration | approx. 2,15h |
| Protection category | IP68 |
| Housing | PC/PBT (neon yellow) |
| Length | 146mm |
| Weight incl. batteries | 54g |

| Item no. | Description |
|----------|--|
| 323618 | Battery light 1975Z0 LED incl. batteries |

3315Z0/20 LED



The light and compact design of the 3315Z0 LED battery light includes 3 AA batteries that make a single LED with 110 lumens extremely bright. With a safety certificate for most explosive work environments according to ATEX Cat. 1 (Zone 0), the 3315Z0 is one of the most efficient flashlights that the market currently offers.

Product features

- pressure switch on luminaire body
- compact, lightweight and with enormous LED power
- ATEX certified
- housing made of Anti Static ABS
- luminaire is resistant to corrosion and extreme temperatures
- submersible

Technical Data

| | |
|------------------------|--------------------------------|
| Labelling | Ex II 1 G Ex ia IIC T4 Ga |
| | Ex II 1 D Ex ia IIIC T130°C Da |
| | TRAC13ATEX0009X |
| Ex zones | 0, 20 |
| Light source | LED |
| Light duration | approx. 19h |
| Light range | approx. 160m |
| Battery | 3xAA Alkaline |
| Length | 156mm |
| Weight incl. batteries | 130g |

| Item no. | Description |
|----------|---|
| 283369 | Battery light 3315Z0/20 LED incl. batteries |

HEADS UP LITE 2755Z0 LED Head-/helmet light



Bright, compact head lamp for tough applications - the high light output of the head and helmet light 2755Z0 offers up to 72 lumens of brightness, flashing light and a light-saving mode. With a weatherproof housing, which also enables quick and easy battery replacement.

Product features

- secure fastening and high wearing comfort due to adjustable textile headband
- housing made of shock-resistant and chemical-resistant ABS
- waterproof
- ATEX certified
- bevelled profile knob is fail-safe and easy to operate, even with coarse gloves

Technical Data

| | |
|------------------------|---|
| Labelling | Ⓔ II 1 G Ex ia IIC T4 Ga TRAC13ATEX0035X |
| Ex zone | 0 |
| Light source | LED |
| Luminous flux | 74lm |
| Light duration | approx. 6h (high) approx. 15h (low) |
| Light range | approx. 60m |
| Battery | 3xAAA Alkaline |
| Length | 57mm |
| Weight incl. batteries | 100g |

HEADS UP LITE 2690Z0/20 Head-/helmet light



This head lamp is more efficient, compact and lighter than other lamps in its class. The beveled profile knob is fail-safe and easy to use - even with rough gloves. The 2690Z0 / 20 is made of shockproof and chemical resistant ABS. Thanks to its water resistance, it is suitable for use in any weather and is also approved for mining. It has an adjustable and comfortable textile strip and a heavy-duty rubber band that does not slip off the helmet.

Product features

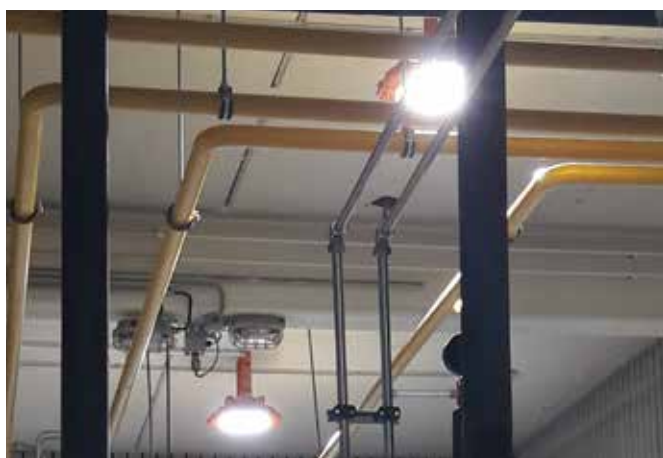
- secure fastening and high wearing comfort due to adjustable textile headband
- Housing made of shock-resistant and chemical-resistant ABS
- impermeable to water
- ATEX certified
- slanted profile knob is fail-safe and easy to operate, even with coarse gloves

Technical Data

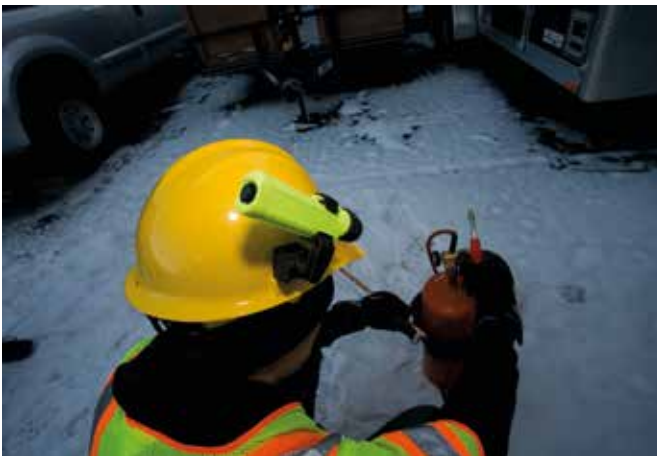
| | |
|------------------------|--|
| Labelling | Ⓔ II 1 D/G Ex ia IIC T4 Ⓔ Ex iaD 20 IP65 T65°C TRL08ATEX11184X |
| Ex zone | 0, 20 |
| Light source | LED |
| Luminous flux | 74lm |
| Light duration | 10h |
| Battery | 3xAAA Alkaline |
| Length | 711mm |
| Weight incl. batteries | 120g |

| Item no. | Description |
|----------|--|
| 283368 | Head-/helmet light HEADS UP LITE 2755Z0 LED incl. batteries |

| Item no. | Description |
|----------|---|
| 268524 | Head-/helmet light HEADS UP LITE 2690Z0/20 incl. batteries |

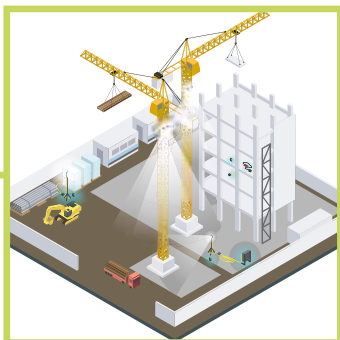






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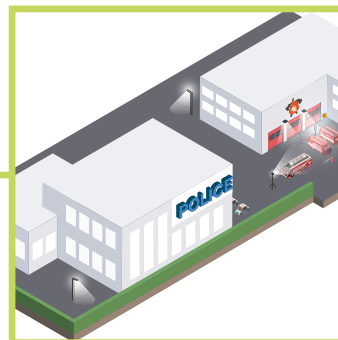
Ex-products



Construction industry



Industrial sector



Safety equipment

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