



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
Dc	61241-4	pD	Protection by excessive pressure 'pD'
	60079-31	tc	Protection by enclosures
	60079-11	ic	Protection by intrinsic safety
	60079-18	mc	Protection by encapsulation

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 to EN 60079-0

Equipment groups (Gas)	Temperature class	Max. surface temperature
IIA Acetone, ethane, benzene, automotive gasoline, butane, propane, methane	T1	< 450 °C
IIB Ethylene, town gas	T2	< 300 °C
IIC Hydrogen, acetylene	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

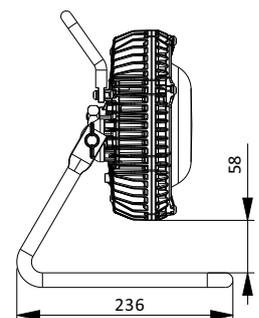
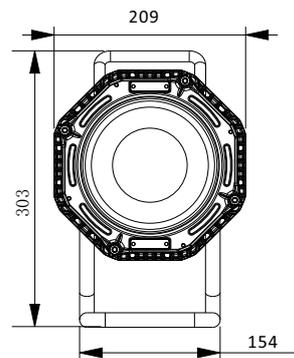
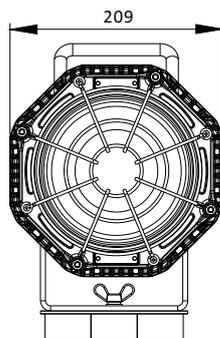
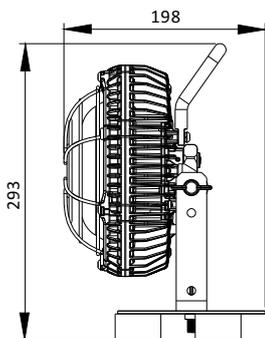
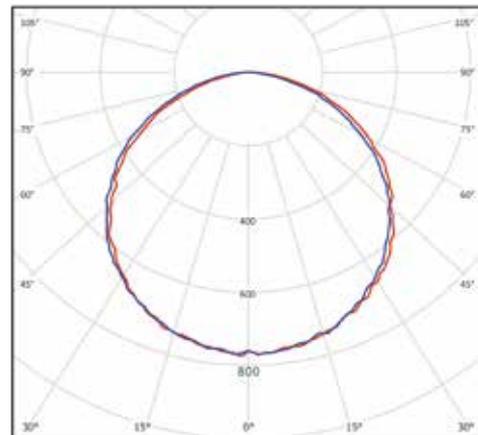
- flexible mounting on metal surfaces, thanks to an integrated magnet in the base of the lamp (art. no. 288400)
- flexible use thanks to robust stainless steel base (art. no. 321174)
- portable, handy design
- high luminosity
- shock- and vibration-proof due to hardened glass
- robust aluminium housing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

Technical data

Labelling	⊕ II 2 G Ex d IIC T6 Gb ⊕ 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

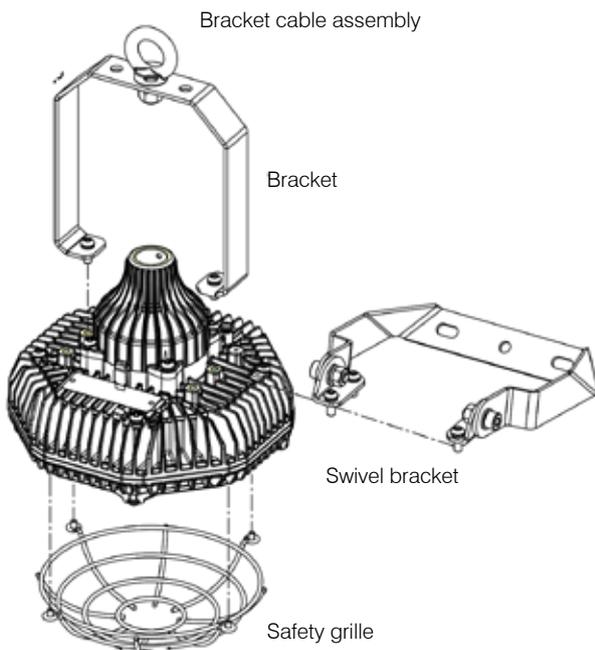
Technical data

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

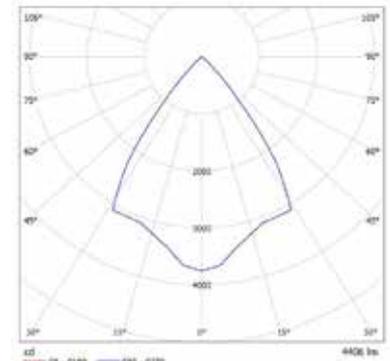
Item no.	Description
800019	FlutLED-Ex/W60V230/80°
800020	FlutLED-Ex/W60V230/120°
800021	FlutLED-Ex/W60V24-48VAC/DC/80°
800022	FlutLED-Ex/W60V24-48VAC/DC/120°
Accessories	
800034	FlutLEDEx/W60.bracket
800035	FlutLEDEx/W60.bracket cable assembly
800036	FlutLEDEx/W60.swivel bracket
800037	FlutLEDEx/W60.safety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



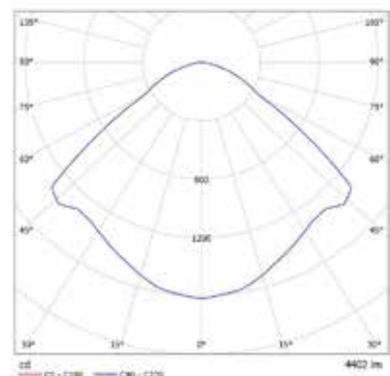
* Essential accessory 800036 swivel bracket



Light distribution measurements 80°



Light distribution measurements 120°



Supplied state:
The light comes without accessories as standard!

FlutLED-Ex 3 120W / 150W

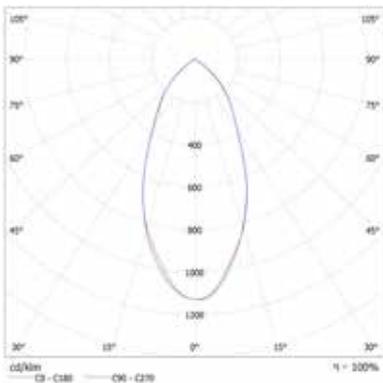


FlutLED-Ex 120W and 150W are suitable for all areas that require efficient and extremely robust Ex-safe lighting. With their excellent illumination, these Ex lights are used in refineries, the energy and chemical industry, on drilling platforms, in fire-fighting, in disaster protection and also as stadium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

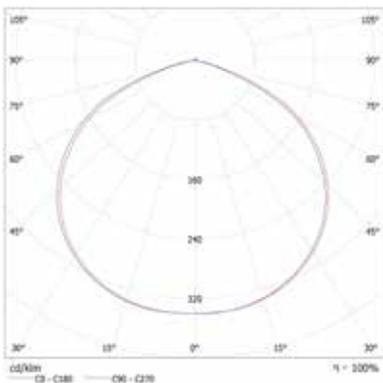
Product features

- 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

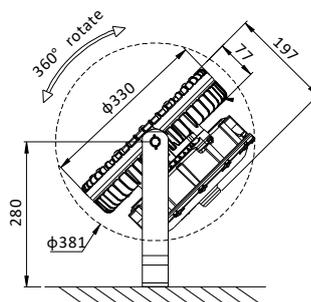
Labelling	⊕ II 2 G - Ex db IIC T4/T5 Gb ⊕ II 2 D - Ex tb IIIC T105°/T95°C Db IP66
Ex zone	1, 2, 21 and 22
Input voltage	100-277VAC (50/60Hz)
System performance	120W/150W
Surge protection	5kV
Light current	
- 60°	13920lm/17400lm
- 120°	16380lm/20475lm
System efficiency	
- 60°	116lm/W
- 120°	136lm/W
Light 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

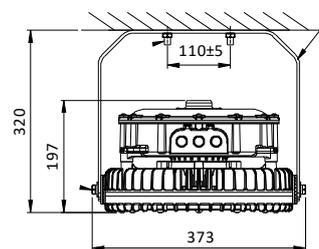
* Essential accessory 316518 swivel bracket

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.

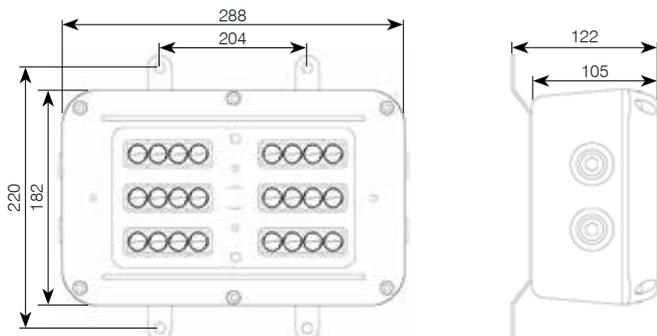
Product features

- 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

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 - 254V 50/60Hz
System performance	34W Standard
Power factor	>0,95
Weight	
- Standard 34W	8 kg
- Emergency light 37W	10 kg

Item no.	Description
300502	SPARTAN Bulkhead Ex, 24 LED, 34W, 230VAC, 6000K, 2500lm, zones 1/21
300503	SPARTAN Bulkhead Ex, 24 LED, 37W, 230VAC, 6000K, 2500lm, 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, 9mm/ø6-12mm



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 12VAC, 18-48VAC, 18-69VDC
- 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 IIIC T104° 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 T4 Gb -50°C to +50°C
Dust	Ex tb op is IIIC T104° C Db -50°C to +50°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

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
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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

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 (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.

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

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

!

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

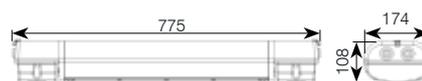
- self test function
- three-colour status display battery
- Emergency lighting up to 3 hours at 25 % light output
- Battery Ni / Cd 12 V

Technical data

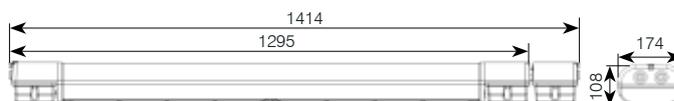
ATEX	ATEX and IEC Ex for gas and dust
Ex zone	zone 1 (gas), zone 21 (dust)
Certificate	CML14ATEX3119 & IECEx CML15.0001 UL/CSA, incl. C1D2
Gas	II 2 G D Ex e mb op is IIC T5 Gb
- Standard	-40° C to +55° C
- Emergency light	-20° C to +50° C
Dust	Ex tb op is IIC T75° C Db
- Standard	-40° C to +55° C
- Emergency 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 luminaire Ex, 84 LED, 34W, 230VAC, 6000K, 2500lm, zones 1/21
300498	SPARTAN Linear fluorescent luminaire Ex, 84 LED, 37W, 230VAC, 6000K, 2500lm, zones 1/21 with emergency light function 25%
300499	SPARTAN Linear fluorescent luminaire Ex, 168 LED, 68W, 230VAC, 6000K, 5000lm, zones 1/21
300500	SPARTAN Linear fluorescent luminaire Ex, 168 LED, 71W, 230VAC, 6000K, 5000lm, zones 1/21 with emergency light function 25%
300501	SPARTAN Linear fluorescent luminaire green Ex, 84 LED, 32W, 230VAC, 519nm, 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 luminaire Ex (set of 2 mounts)
on request	Swivel bracket mounting kit for SPARTAN Linear fluorescent luminaire Ex for wall or ceiling mounting (set of 2 mounts)
on request	Magnet mounting set for SPARTAN Linear fluorescent luminaire Ex (set of 2 magnets)
on request	Eye bolt kit M8 for SPARTAN Linear fluorescent luminaire Ex (set of 2 eye bolts)
on request	Suspension cord kit / anti-fall protection 500mm for SPARTAN Linear fluorescent luminaire 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.

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	100~277VAC (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

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
800023	Ex strip luminaire 36W 120°, incl. mounting bracket
800024	Ex strip luminaire 56W 120°, incl. mounting bracket

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.

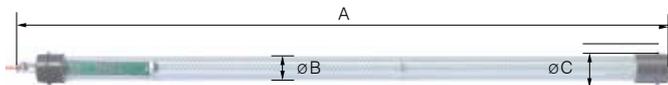
Product features

- 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	II 2 G Ex d IIC T5 Gb 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	II 2 G Ex d IIC T4 Gb 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

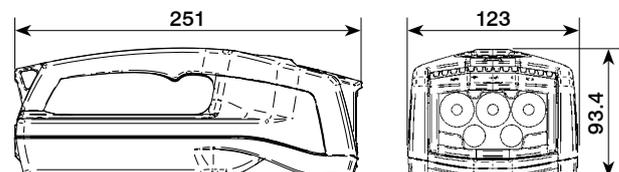
Technical data

Labelling	⊕ II 2G Ex ib IIC T4 Gb ⊕ II 2D Ex ib IIIC 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)	149x276x95 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

Technical Data TorchLED Ex

Housing colour	black
Operating voltage	6VDC
Electric power supply	LiPo 7.4V - 820 mAh
Charging time	approx. 5h
Light duration factory settings (max. light power)	
- Spot (1 LED)	approx. 7h
- Wide (1 LED)	approx. 7h
- Full light (2 LED)	approx. 3.5h
- Emergency light	approx. 7h
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	182g
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	70g/80g
Permitted ambient temperature	0°C to +40°C



Item no. 860999



Item no. 860998

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	 II 1G Ex ia op is IIC T4 Ga  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	 II 1G Ex ia op is IIC T4 Ga  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	711m
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

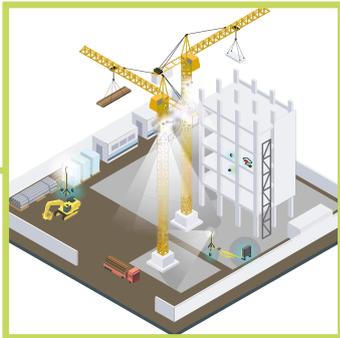






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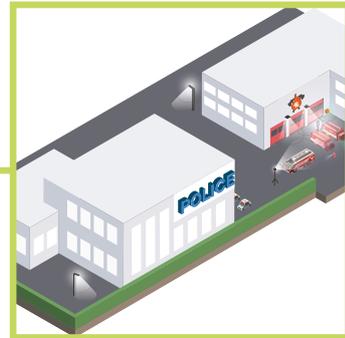
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