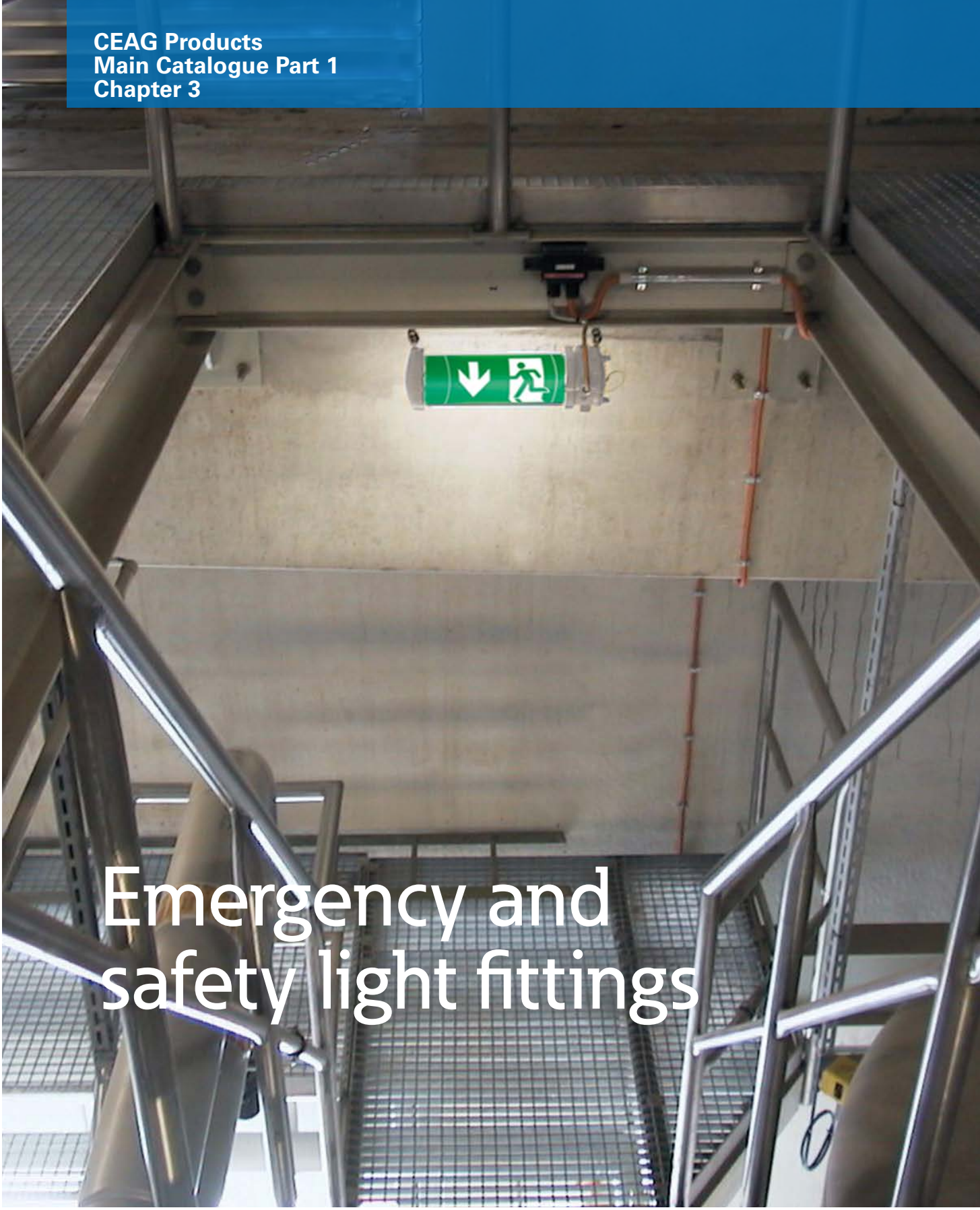


Emergency and safety light fittings

Ex-signal and escape sign luminaires

Applications and decision criteria

Escape sign luminaire EXIT

Emergency lighting – central or decentral

With regard to emergency lighting in hazardous areas, there are two general philosophies, which are based on the reliability of the supply source, the costs and efforts required for testing and maintenance work and the economic efficiency.

Emergency light fittings with a self-contained battery system

Emergency light fittings with self-contained battery systems provide the required emergency lighting decentrally, independent of central systems. This means that the battery, the charger and the electronics are integrated into each emergency light fitting. With regard to the availability and the redundancy, this system meets the highest requirements regarding the reliability of the supply source, in particular in safety-related sensitive areas.

However, with regard to economic efficiency, the costs and efforts involved in the testing and maintenance of each self-contained battery system and the influence of the ambient conditions on the battery life span have to be taken into account.

Taking the above safety aspects into consideration, the use of emergency light fittings with a self-contained battery system is undoubtedly the best solution for applications in large and spacious hazardous areas where the number of fittings used is limited.

The CEAG emergency light fittings with self-contained battery systems of the series EXIT N and Ex-Lite N have been designed for a 3 h emergency lighting duration. The series EE11 PL and Planete 400 are designed for a rated emergency lighting duration of 1.5 h/1 h and features partly a device for carrying out automatic function and duration tests.

Escape sign luminaire Ex-Lite

Planete 400

The LED emergency light fitting Planete 400

The Planete 400 AD DL completes our lighting portfolio with a robust emergency light fitting with self-contained battery system and state-of-the-art LED technology. An integrated micro-processor monitors the automatic function and duration test and green and yellow LEDs indicate the lighting status. The Planete 400 AD DL is equipped with 32 LEDs and has an emergency light duration of more than one hour.

supply using system light fittings with V-CG-S-Modules

A centrally monitored emergency light system using the CEAG group supply and a central battery system is employed when a large number of emergency lights can be combined and used as system light fittings.

As a rule, these battery systems are not installed in the hazardous areas and, therefore, do not have to cope with the same environmental conditions as the light fittings themselves. This usually results in an extended life span of the batteries with a

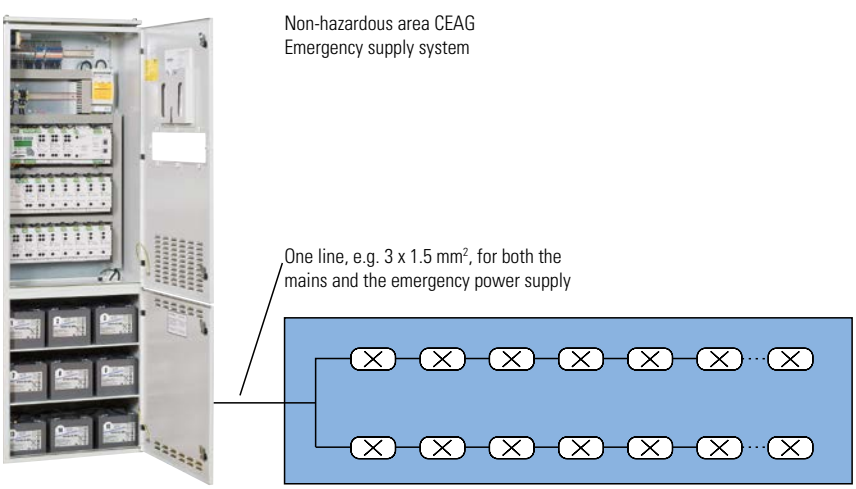
One must, of course, take the increased effort and costs involved in laying cables from the central supply system to the light fittings in the hazardous areas into consideration.

For operation in CEAG emergency lighting systems, we supply versions of our explosion-protected emergency and signal light fittings with V-CG-S modules. Amongst other things, this monitoring module controls the data exchange with the central emergency lighting unit and reports the operating status and any malfunctions.

ule, all CEAG light fittings that are equipped accordingly as individually monitored light fittings can also be connected to a CEAG emergency lighting installation with monitoring facility. This means that explosion-protected light fittings of the series EXIT V-CG-S, Ex-Lite V-CG-S, dKLK 23 V-CG-S and AB 12108-EVG can also be integrated as system light fittings in the practical monitoring system.

lowing significant advantages:

- Automatic performance of the necessary function and duration tests with a central recording of all operating functions and error reports
- Enormous cost savings as manual testing is no longer necessary
- Freely programmable switching mode for mixed operation with one end circuit; i.e. a choice of permanent or standby modus as well as a switching with the general lighting.
- High degree of safety of emergency lighting due to constant display of availability
- Simplified installation by using line supply for data communication
- Mains and emergency power supply have a common connection
  - No separate data line is required
  - Up to 20 light fittings can be connected and addressed to one circuit.



Ex-escape sign luminaires

EXIT for Zone 1 and Zone 21 / Exit 2 for Zone 2 and Zone 22

3 Moulded plastic version with LED-technique

Leading the way in hazardous areas

The EXIT series of explosion-protected escape sign luminaires fulfils the requirements of ATEX Directive 2014/34/EU and EN 60598, Section 2.22 for emergency lighting luminaires. The luminaires are suited for marking escape routes and exits in hazardous areas.

Only white, high-efficiency LEDs are used as illuminants for these luminaires. This guarantees maintenance free operation, as the illuminants do not need replacing throughout the complete service life of the luminaire.

The supply electronics is also laid out for this service life; the LED circuits are intrinsically safe.

The wide input voltage range allows international use. The housing of these luminaires is made of high-grade polycarbonate: the escape signs comply with the latest standards.

Thanks to the robust design and high degree of protection, these luminaires are suited for both indoor and outdoor use.

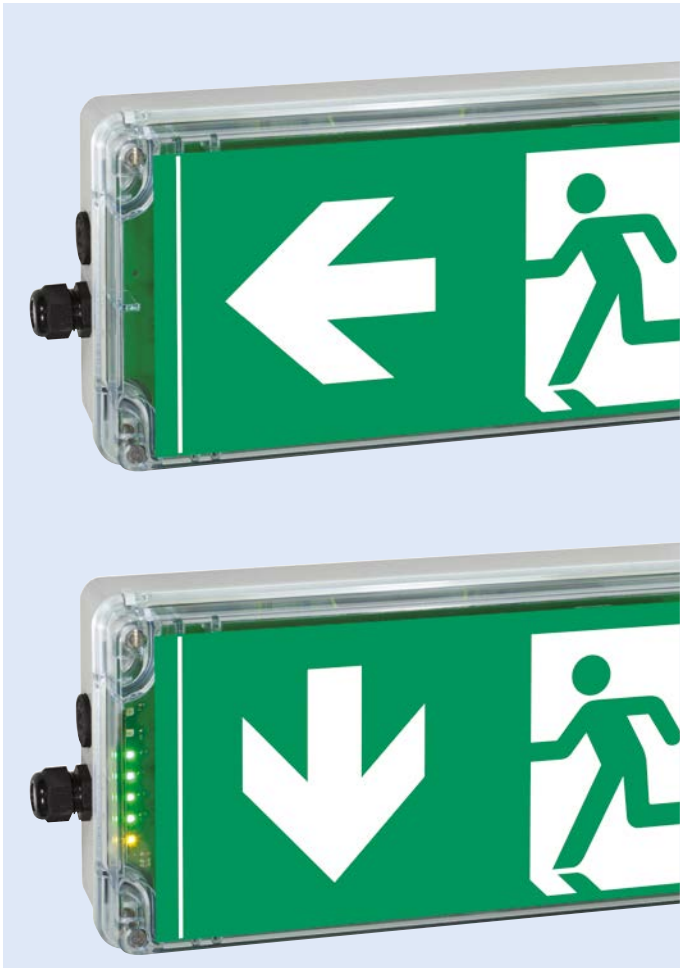
As an emergency lighting luminaire with self-contained battery system for maintained operation, the EXIT N and the EXIT 2 N features an NC battery and automatic function monitoring with operating time test.

With the optional built-in V-CG-S monitoring module with coding switch for max. 20 addresses, this luminaire can also be used as an individually monitored emergency lighting luminaire that is connected to a CEAG emergency lighting supply system. With this, the operator can programme the switching mode according to the respective requirements. Thus, as many as 20 luminaires with different switching modes can be connected to one end circuit.

Pictogram accord. to ISO 7010

Pictogram accord. to DIN 4844

Pictogram accord. to EN 1838



Features

- All-plastic polycarbonate housing
- Power-saving LED technology, maintenance-free throughout service life
- High degree of protection IP66
- Luminaire with self-contained battery unit and automatic function monitoring
- Connection and monitoring with CEAG emergency lighting supply systems possible

For all types of application

The escape sign luminaires of the „EXIT" series are available as mains luminaires "EXIT" and „EXIT 2", e.g. for specially safeguarded industrial networks in production plants, as "EXIT V-CG-S" and „EXIT 2 V-CG-S" emergency lighting luminaires with individual function monitoring for use in CEAG emergency lighting supply systems, as well as "EXIT-N" and „EXIT 2 N" emergency lighting luminaires with self-contained battery systems and automatic function and operating time tests.

Green light for all zones

On account of the robust, all-plastic polycarbonate housing in the high degree of protection IP66, the **EXIT** luminaire can be installed almost anywhere, both indoors and out. The luminaire is designed in the type of protection Ex e m ib IIC up to T6 as well as Ex tb IIIC T80 °C and, in accordance with the ATEX Directive. It can be used in hazardous areas with explosive gas atmospheres (Zones 1 and 2) and explosive dust atmospheres (Zones 21 and 22). The **EXIT 2** series can be used in hazardous areas with explosive gas atmospheres (Zones 2) and explosive dust atmospheres (Zones 22).

Conformity to standards

The EXIT explosion-protected escape sign luminaire series fulfils the requirements of ATEX Directive 2014/34/EU and EN 60598, Part 2.22 for emergency lighting luminaires. It is suited for marking escape routes and exits in potentially explosive atmospheres. The housing of this luminaire is made of high-grade polycarbonate and it goes without saying that the escape signs comply with the latest standards.

Maintenance-free operation

The white LED technology used as the light source allows maintenance-free operation without replacement of the illuminant. The lighting values required for the escape sign are maintained throughout the complete service life of the LEDs, namely approx. 50,000 hours. It goes without saying that the supply electronics are also designed for this extremely long operating time. This reduces operating costs and increases the operating safety considerably, in particular in locations that are difficult to access.

For international use

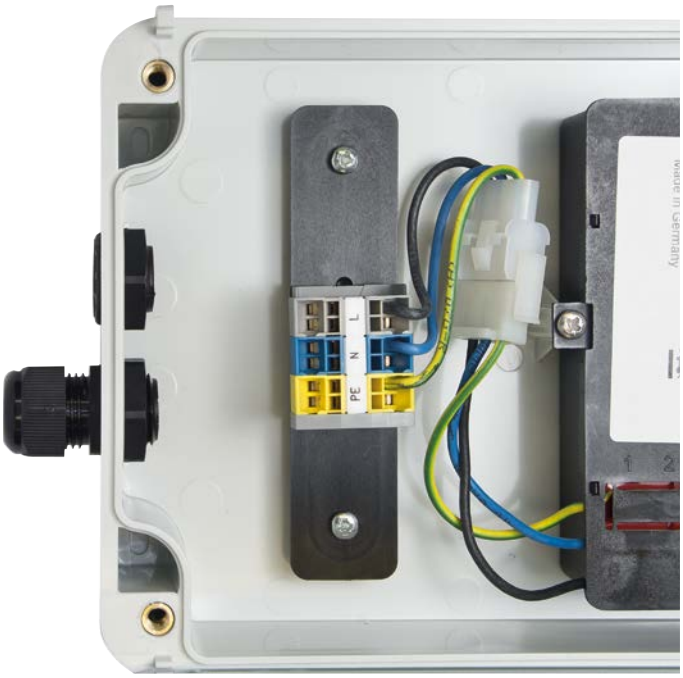
The LED escape sign luminaire of the EXIT series was designed to meet the requirements of a large number of different safety concepts. Thanks to the wide input voltage range from 110 V to 277 V AC and up to 250 V DC, this luminaire can be used internationally, whereby the supply circuits of the LED circuits are intrinsically safe.

The internationally valid certificate „IECEx" enhances the scope of this light fitting.

The luminaire has a visibility range of 25 metres and it is available with a wide variety of pictograms, where country-specific solutions can be created without any problems.

Double safety

Whenever the operational safety of explosion- protected safety and escape sign luminaires is involved, there is no room for compromises, as only a luminaire that is fully functional at all times can save human lives. The new series of explosion-protected LED escape sign luminaires not only fulfils the extremely high explosion protection requirements, but it also fulfils the legal requirements for emergency and safety lighting installations. The new EXIT is capable of safely showing the right way to go at all times, even in complex and often badly laid out industrial installations with hazardous areas.

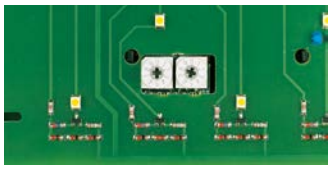


pluggable connection for an easy replacement of components

CEAG emergency lighting supply unit (non-hazardous area)

Central emergency lighting supply via system luminaires with V-CG-S module

A central emergency lighting supply using CEAG group supply and central battery systems is used wherever a large number of emergency lighting luminaires can be combined and operated as system luminaires. These battery systems are generally installed outside the hazardous areas and, therefore, they are not subjected to the ambient conditions of the luminaires in the field. As a result, the operating life of the battery is relatively long and the amount of maintenance required is minimal. The mains and emergency lighting supplies of these luminaires are fed via separate circuits from the emergency lighting power supply installation to the escape sign luminaire in the hazardous area. Various luminaires with V-CG-S function can be operated in these circuits.



Address switch of EXIT V-CG-S

Better safe than sorry

In addition to the EXIT/EXIT 2 for use as a mains luminaire, e.g. for specially safeguarded industrial networks in production plants, there is also the EXIT V-CG-S/EXIT 2 V-CG-S version with easy function monitoring. In conjunction with the V-CG-S monitoring module with coding switch up to 20 addresses, this luminaire can be operated as emergency lighting luminaire with individual monitoring. The operator can programme the switching mode according to his individual requirements, thus allowing the operation of up to 20 luminaires with different switching modes in one end circuit.

No additional installation work is required. The central control unit monitors all the functions of the luminaire, checks the feed line for shorts or open circuits and indicates any incidents clearly on the display. Thus, even with highly complex installations, troubleshooting and eliminating faults are not a problem. Another considerable advantage: all the function and operating time tests are carried out automatically and recorded by the central control unit. This saves lots of time and money. During this function test, the correct functioning of the luminaire is monitored by the built-in V-CG-S module and any faults are reported to the central control unit. Thus, for example, the failure of LED groups is indicated automatically.

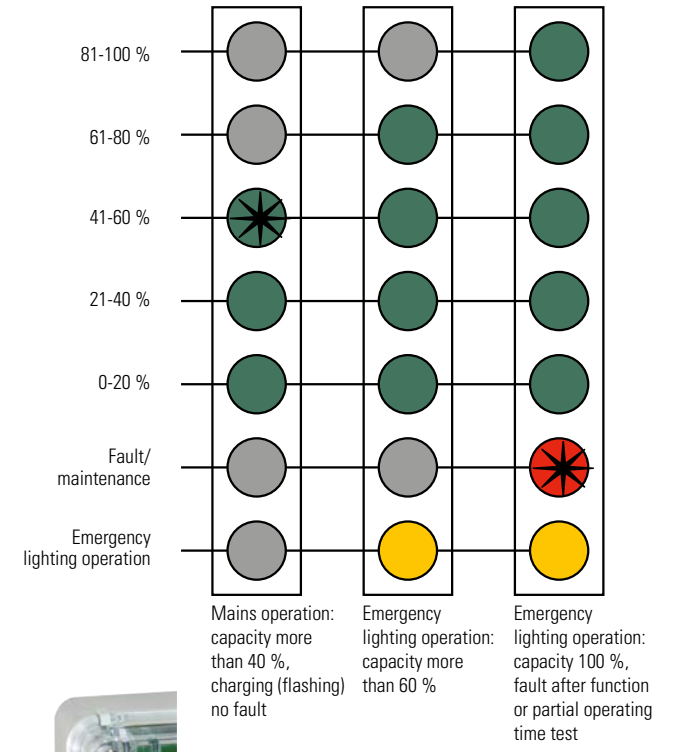
Emergency lighting luminaires with self-contained battery systems

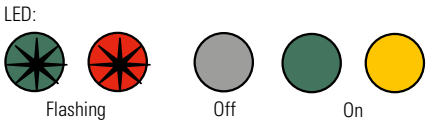
Emergency lighting luminaires with self-contained battery systems provide the required emergency lighting from a decentralized source, independent of central systems. These luminaires are particularly economical when used in extensive plants. Until now, compared to centrally operated and monitored installations, the disadvantage of the emergency lighting luminaires with self-contained battery systems was that they did not provide any information on the state of the luminaire. However, this monitoring function has been incorporated in the EXIT N/EXIT 2 N escape sign luminaire. Five green LEDs supply constant information on the charge status and available battery capacity. A yellow LED indicates the emergency lighting operation mode and an additional red LED indicates any faults.

Monitoring functions

The extended self-monitoring with automatic function and partial duty cycle test is also new. The five green LEDs behind the protective cover provide continuous indication of the charge status and the current battery capacity. Charging is signalized by a flashing green LED. The charged capacity is indicated in 20% stages. The yellow LED indicates emergency lighting operation. An automatic function test lasting 5 minutes is carried out on a weekly basis. For this, the luminaire is switched electronically from mains to battery operation. The emergency lighting function is tested and any faults are indicated by the flashing red LED.

After approx. 3 months a partial operating time test (35 mins.) is initiated automatically. If a minimum emergency lighting operating time of 30 minutes is not reached, it is signalized by the flashing red LED. After the cause of the fault has been eliminated, e.g. by charging or replacing the battery, the fault indication is reset during the next emergency lighting operation (manual or automatic) when the minimum operating time of > 30 minutes has been reached.





Ordering details / Dimension drawing

EXIT / EXIT 24 V / EXIT N / EXIT V-CG-S for Zone 1/21

Ordering details

	Type	Scope of delivery	Cable gland/Thread			Standard pictogram ISO 7010	optional pictogram according to	
			Plastic cable glands M20	Screw plug M20	Metal thread M20	Order No.	DIN 4844 Order No.	EN 1838 Order No.
	EXIT	including cover with silk-screen pictogram (arrow 3h)	1 x M20	1 x M20		**1 2191 000 021**	**1 2191 000 001**	**1 2191 000 011**
		including cover with silk-screen pictogram (arrow 9h)	1 x M20	1 x M20		**1 2191 000 022**	**1 2191 000 002**	**1 2191 000 012**
		including cover with silk-screen pictogram (arrow 6h)	1 x M20	1 x M20		**1 2191 000 023**	**1 2191 000 003**	**1 2191 000 013**
		including cover with silk-screen pictogram (arrow 3h)			2 x M20	**1 2191 000 121**	**1 2191 000 101**	**1 2191 000 111**
		including cover with silk-screen pictogram (arrow 9h)			2 x M20	**1 2191 000 122**	**1 2191 000 102**	**1 2191 000 112**
		including cover with silk-screen pictogram (arrow 6h)			2 x M20	**1 2191 000 123**	**1 2191 000 103**	**1 2191 000 113**
	EXIT 24 V	including cover with silk-screen pictogram (arrow 3h)	1 x M20	1 x M20		**1 2191 024 021**	**1 2191 024 001**	**1 2191 024 011**
		including cover with silk-screen pictogram (arrow 9h)	1 x M20	1 x M20		**1 2191 024 022**	**1 2191 024 002**	**1 2191 024 012**
		including cover with silk-screen pictogram (arrow 6h)	1 x M20	1 x M20		**1 2191 024 023**	**1 2191 024 003**	**1 2191 024 013**
		including cover with silk-screen pictogram (arrow 3h)			2 x M20	**1 2191 024 121**	**1 2191 024 101**	**1 2191 024 111**
		including cover with silk-screen pictogram (arrow 9h)			2 x M20	**1 2191 024 122**	**1 2191 024 102**	**1 2191 024 112**
		including cover with silk-screen pictogram (arrow 6h)			2 x M20	**1 2191 024 123**	**1 2191 024 103**	**1 2191 024 113**
	EXIT N	including cover with silk-screen pictogram (arrow 3h)	1 x M20	1 x M20		**1 2191 030 021**	**1 2191 030 001**	**1 2191 030 011**
		including cover with silk-screen pictogram (arrow 9h)	1 x M20	1 x M20		**1 2191 030 022**	**1 2191 030 002**	**1 2191 030 012**
		including cover with silk-screen pictogram (arrow 6h)	1 x M20	1 x M20		**1 2191 030 023**	**1 2191 030 003**	**1 2191 030 013**
		including cover with silk-screen pictogram (arrow 3h)			2 x M20	**1 2191 030 121**	**1 2191 030 101**	**1 2191 030 111**
		including cover with silk-screen pictogram (arrow 9h)			2 x M20	**1 2191 030 122**	**1 2191 030 102**	**1 2191 030 112**
		including cover with silk-screen pictogram (arrow 6h)			2 x M20	**1 2191 030 123**	**1 2191 030 103**	**1 2191 030 113**
	EXIT V-CG-S	including cover with silk-screen pictogram (arrow 3h)	1 x M20	1 x M20		**1 2191 020 021**	**1 2191 020 001**	**1 2191 020 011**
		including cover with silk-screen pictogram (arrow 9h)	1 x M20	1 x M20		**1 2191 020 022**	**1 2191 020 002**	**1 2191 020 012**
		including cover with silk-screen pictogram (arrow 6h)	1 x M20	1 x M20		**1 2191 020 023**	**1 2191 020 003**	**1 2191 020 013**
		including cover with silk-screen pictogram (arrow 3h)			2 x M20	**1 2191 020 121**	**1 2191 020 101**	**1 2191 020 111**
		including cover with silk-screen pictogram (arrow 9h)			2 x M20	**1 2191 020 122**	**1 2191 020 102**	**1 2191 020 112**
		including cover with silk-screen pictogram (arrow 6h)			2 x M20	**1 2191 020 123**	**1 2191 020 103**	**1 2191 020 113**
	EXIT	including cover, clear, without pictogram	1 x M20	1 x M20		**1 2191 000 004**		
		including cover, clear, without pictogram			2 x M20	**1 2191 000 104**		
	EXIT 24 V	including cover, clear, without pictogram	1 x M20	1 x M20		**1 2191 024 004**		
		including cover, clear, without pictogram			2 x M20	**1 2191 024 104**		
	EXIT N	including cover, clear, without pictogram	1 x M20	1 x M20		**1 2191 030 004**		
		including cover, clear, without pictogram			2 x M20	**1 2191 030 104**		
	EXIT V-CG-S	including cover, clear, without pictogram	1 x M20	1 x M20		**1 2191 020 004**		
		including cover, clear, without pictogram			2 x M20	**1 2191 020 104**		

Other silk-screen pictograms or inscriptions available on request

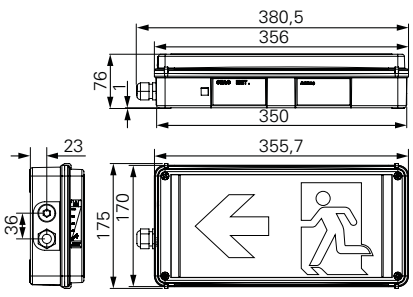
A wide selection of cable glands can be found at www.crouse-hinds.de/products or in the catalogue Part 2, Section 3


arrow 3h


arrow 9 h


arrow 6 h

EXIT / EXIT V-CG-S / EXIT N



Dimensions in mm

Ordering details

	Type	Scope of delivery	Cable gland/Thread			Standard pictogram ISO 7010	
			Plastic cable glands M20	Screw plug M20	Metal thread M20		Order No.
	EXIT 2	including cover with silk-screen pictogram (arrow 3h)	1 x M20	1 x M20			**1 2193 000 021**
		including cover with silk-screen pictogram (arrow 9h)	1 x M20	1 x M20			**1 2193 000 022**
		including cover with silk-screen pictogram (arrow 6h)	1 x M20	1 x M20			**1 2193 000 023**
		including cover with silk-screen pictogram (arrow 3h)			2 x M20		**1 2193 000 121**
		including cover with silk-screen pictogram (arrow 9h)			2 x M20		**1 2193 000 122**
		including cover with silk-screen pictogram (arrow 6h)			2 x M20		**1 2193 000 123**
	EXIT 2 24 V	including cover with silk-screen pictogram (arrow 3h)	1 x M20	1 x M20			**1 2193 024 021**
		including cover with silk-screen pictogram (arrow 9h)	1 x M20	1 x M20			**1 2193 024 022**
		including cover with silk-screen pictogram (arrow 6h)	1 x M20	1 x M20			**1 2193 024 023**
		including cover with silk-screen pictogram (arrow 3h)			2 x M20		**1 2193 024 121**
		including cover with silk-screen pictogram (arrow 9h)			2 x M20		**1 2193 024 122**
		including cover with silk-screen pictogram (arrow 6h)			2 x M20		**1 2193 024 123**
	EXIT 2 N	including cover with silk-screen pictogram (arrow 3h)	1 x M20	1 x M20			**1 2193 030 021**
		including cover with silk-screen pictogram (arrow 9h)	1 x M20	1 x M20			**1 2193 030 022**
		including cover with silk-screen pictogram (arrow 6h)	1 x M20	1 x M20			**1 2193 030 023**
		including cover with silk-screen pictogram (arrow 3h)			2 x M20		**1 2193 030 121**
		including cover with silk-screen pictogram (arrow 9h)			2 x M20		**1 2193 030 122**
		including cover with silk-screen pictogram (arrow 6h)			2 x M20		**1 2193 030 123**
	EXIT 2 V-CG-S	including cover with silk-screen pictogram (arrow 3h)	1 x M20	1 x M20			**1 2193 020 021**
		including cover with silk-screen pictogram (arrow 9h)	1 x M20	1 x M20			**1 2193 020 022**
		including cover with silk-screen pictogram (arrow 6h)	1 x M20	1 x M20			**1 2193 020 023**
		including cover with silk-screen pictogram (arrow 3h)			2 x M20		**1 2193 020 121**
		including cover with silk-screen pictogram (arrow 9h)			2 x M20		**1 2193 020 122**
		including cover with silk-screen pictogram (arrow 6h)			2 x M20		**1 2193 020 123**
	EXIT 2	including cover, clear, without pictogram	1 x M20	1 x M20			**1 2193 000 004**
		including cover, clear, without pictogram			2 x M20		**1 2193 000 104**
	EXIT 2 24 V	including cover, clear, without pictogram	1 x M20	1 x M20			**1 2193 024 004**
		including cover, clear, without pictogram			2 x M20		**1 2193 024 104**
	EXIT 2 N	including cover, clear, without pictogram	1 x M20	1 x M20			**1 2193 030 004**
		including cover, clear, without pictogram			2 x M20		**1 2193 030 104**
	EXIT 2 V-CG-S	including cover, clear, without pictogram	1 x M20	1 x M20			**1 2193 020 004**
		including cover, clear, without pictogram			2 x M20		**1 2193 020 104**

Other silk-screen pictograms or inscriptions available on request

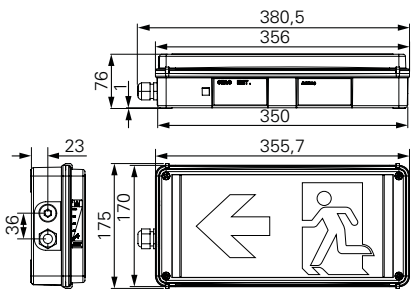
A wide selection of cable glands can be found at www.crouse-hinds.de/products or in the catalogue Part 2, Section 3


arrow 3h


arrow 9 h


arrow 6 h

EXIT 2 / EXIT 2 V-CG-S / EXIT 2 N



Dimensions in mm

Technical data

EXIT / EXIT 24 V / EXIT N / EXIT V-CG-S for Zone 1/21

Technical data

	EXIT / EXIT 24 V	EXIT N	EXIT V-CG-S
EC-Type Examination Certificate	BVS 09 ATEX E 029	BVS 09 ATEX E 029	BVS 09 ATEX E 029
IECEx Certificate of Conformity	IECEx BVS 13.0017	IECEx BVS 13.0017	IECEx BVS 13.0017
Marking accd. to 2014/34/EU	Ⓔx II 2 G Ex e ib mb IIC T6/T5 Gb Ⓔx II 2 D Ex tb IIIC T80°C Db	Ⓔx II 2 G Ex e ib mb IIC T5/T4 Gb Ⓔx II 2 D Ex tb IIIC T80°C Db“	Ⓔx II 2 G Ex e ib mb IIC T6/T5 Gb Ⓔx II 2 D Ex tb IIIC T80°C Db
Marking accd. to IECEx	Ex e ib mb IIC T6/T5 Gb Ex tb IIIC T80°C Db	Ex e ib mb IIC T5/T4 Gb Ex tb IIIC T80°C Db	Ex e ib mb IIC T6/T5 Gb Ex tb IIIC T80°C Db
Permissible ambient temperature specified data	-20 °C up to +40°C (T6) -20 °C up to +50°C (T5)	-20 °C up to +40°C (T5) -20 °C up to +50°C (T4) +5 °C up to +35 °C	-20 °C up to +40°C (T6) -20 °C up to +50°C (T5)
Battery		12 V/800 mAh NC-Accu	
Rated power consumption	approx. 6 VA	approx. 10 VA	approx. 6 VA
Rated voltage	110 V - 277 V AC 110 V - 250 V DC	110 V - 277 V AC 110 V - 250 V DC	220 V - 254 V AC 195 V - 250 V DC
Rated voltage EXIT 24 V	12 - 24 V DC (-15 % / + 20 %)		
Rated current AC/DC	220 V = 20 mA, 110 V = 40 mA	230 V ≃ 50 mA, 110 V ≃100 mA	220 V = 20 mA, 110 V = 40 mA
Frequency	DC and 50 - 60 Hz (AC)	DC and 50 - 60 Hz (AC)	DC and 50 - 60 Hz (AC)
Charging duration for capacity > 90 %		24 h	
Power factor cos φ	≥ 0.95	≃ 0.5	≥ 0.95
Circuit	electronic power supply	electronic power supply	electronic power supply
Protection class	I	I	I
Viewing distance	25 m	25 m	25 m
Lamp / Illuminant	high output-LEDs, white	high output-LEDs, white	high output-LEDs, white
Rated emergency lighting duration		approx. 3 h	
Dimensions (L x W x H)	356 x 175 x 76 mm	356 x 175 x 76 mm	356 x 175 x 76 mm
Connecting terminals	3 x loop terminal 2.5 mm² [1)]	3 x loop terminal 2.5 mm² [1)]	3 x loop terminal 2.5 mm² [1)]
Enclosure colour	grey, RAL 7035	grey, RAL 7035	grey, RAL 7035
Enclosure material	Polycarbonate	Polycarbonate	Polycarbonate
Weight	2 kg	2.5 kg	2.2 kg
Cable glands / gland plates / enclosure drilling	1 x Ex-e cable glands M20 x 1.5 (plastic) / 1 x Ex-e-screw plug M20 or 2 x M20 x1.5 metal thread, 1 x screw plug M20	1 x Ex-e cable glands M20 x 1.5 (plastic) / 1 x Ex-e-screw plug M20 or 2 x M20 x1.5 metal thread, 1 x screw plug M20	1 x Ex-e cable glands M20 x 1.5 (plastic) / 1 x Ex-e-screw plug M20 or 2 x M20 x1.5 metal thread, 1 x screw plug M20
Type of mounting	wall mounting	wall mounting	wall mounting
Degree of protection accd. to EN 60529	IP66	IP66	IP66
Protective cover / protective bowl	Polycarbonate	Polycarbonate	Polycarbonate

[1)] Option: 3 x 4 mm² screw terminals



Technical data

	EXIT 2/ EXIT 2 24 V	EXIT 2 N	EXIT 2 V-CG-S
Type Examination Certificate	BVS 15 ATEX E 074	BVS 15 ATEX E 074	BVS 15 ATEX E 074
IECEx Certificate of Conformity	IECEx BVS 15.0065	IECEx BVS 15.0065	IECEx BVS 15.0065
Marking accd. to 2014/34/EU	Ⓔx II 3 G Ex e ic mc IIC T6/T5 Gc Ⓔx II 3 D Ex tc IIIC T80°C Dc	Ⓔx II 3 G Ex e ic mc IIC T5/T4 Gc Ⓔx II 3 D Ex tc IIIC T80°C Dc	Ⓔx II 3 G Ex e ic mc IIC T6/T5 Gc Ⓔx II 3 D Ex tc IIIC T80°C Dc
Marking accd. to IECEx	Ex e ic mc IIC T6/T5 Gc Ex tc IIIC T80°C Dc	Ex e ic mc IIC T6/T5 Gc Ex tc IIIC T80°C Dc	Ex e ic mc IIC T6/T5 Gc Ex tc IIIC T80°C Dc
Permissible ambient temperature specified data	-20 °C up to +40°C (T6) -20 °C up to +50°C (T5)	-20 °C up to +40°C (T5) -20 °C up to +50°C (T4) +5 °C up to +35 °C	-20 °C up to +40°C (T6) -20 °C up to +50°C (T5)
Battery		12 V/800 mAh NC-Accu	
Rated power consumption	approx. 6 VA	approx. 10 VA	approx. 6 VA
Rated voltage	110 V - 277 V AC 110 V - 250 V DC	110 V - 277 V AC 110 V - 250 V DC	220 V - 254 V AC 195 V - 250 V DC
Rated voltage EXIT 24 V	12 - 24 V DC (-15 % / + 20 %)		
Rated current AC/DC	220 V = 20 mA, 110 V = 40 mA	230 V ≃ 50 mA, 110 V ≃100 mA	220 V = 20 mA, 110 V = 40 mA
Frequency	DC and 50 - 60 Hz (AC)	DC and 50 - 60 Hz (AC)	DC and 50 - 60 Hz (AC)
Charging duration for capacity > 90 %		24 h	
Power factor cos φ	≥ 0.95	≃ 0.5	≥ 0.95
Circuit	electronic power supply	electronic power supply	electronic power supply
Protection class	I	I	I
Viewing distance	25 m	25 m	25 m
Lamp / Illuminant	high output-LEDs, white	high output-LEDs, white	high output-LEDs, white
Rated emergency lighting duration		approx. 3 h	
Dimensions (L x W x H)	356 x 175 x 76 mm	356 x 175 x 76 mm	356 x 175 x 76 mm
Connecting terminals	3 x loop terminal 2 x 2.5 mm² [1)]	3 x loop terminal 2 x 2.5 mm² [1)]	3 x loop terminal 2 x2.5 mm² [1)]
Enclosure colour	grey, RAL 7035	grey, RAL 7035	grey, RAL 7035
Enclosure material	Polycarbonate	Polycarbonate	Polycarbonate
Weight	2 kg	2.5 kg	2.2 kg
Cable glands / gland plates / enclosure drilling	1 x Ex-e cable glands M20 x 1.5 (plastic) / 1 x Ex-e-screw plug M20 or 2 x M20 x1.5 metal thread, 1 x screw plug M20	1 x Ex-e cable glands M20 x 1.5 (plastic) / 1 x Ex-e-screw plug M20 or 2 x M20 x1.5 metal thread, 1 x screw plug M20	1 x Ex-e cable glands M20 x 1.5 (plastic) / 1 x Ex-e-screw plug M20 or 2 x M20 x1.5 metal thread, 1 x screw plug M20
Type of mounting	wall mounting	wall mounting	wall mounting
Degree of protection accd. to EN 60529	IP66	IP66	IP66
Protective cover / protective bowl	Polycarbonate	Polycarbonate	Polycarbonate

[1)] Option: 3 x 4 mm² screw terminals

Ex-Escape sign luminaires

Ex-Lite

Metal version with LED technology for Zone 1 and Zone 21 / NEC applications

The robust escape sign luminaire

The Ex-Lite series of explosion-protected escape sign luminaire fulfils the requirements of ATEX Directive 2014/34/EU and EN 60598, Section 2.22 for emergency lighting luminaires. The luminaires are suited for marking escape routes and exits in potentially explosive atmospheres. Only white, high-efficiency LEDs are used as illuminants for these luminaires. This guarantees maintenance-free operation, as the illuminants do not need replacing throughout the complete service life of the luminaire.

The supply electronics are also laid out for this service life; the LED circuits are intrinsically safe.

The wide input voltage range allows international use. The housing of these luminaires is made of robust light alloy: the escape signs comply with the latest standards. Thanks to the very robust design and high degree of protection, these luminaires are suited for both indoor and outdoor use, even under extreme conditions. As an emergency lighting luminaire for maintained operation with self-contained battery system, the Ex-Lite N features an NC battery and automatic function monitoring with operating time test.

With the optional built-in V-CG-S monitoring module with coding switch for max. 20 addresses, this luminaire can also be used as an individually monitored emergency lighting luminaire that is connected to a CEAG emergency lighting supply system. With this, the operator can programme the switching mode according to the respective requirements. Thus, as many as 20 luminaires with different switching modes can be connected to one end circuit.

Features

- Robust light alloy housing
- Power-saving LED technology, maintenance-free throughout service life
- High degree of protection IP66
- Luminaire with self-contained battery unit and automatic function monitoring
- Connection and monitoring with CEAG emergency lighting supply systems possible

For all types of application

The escape sign luminaires of the „Ex-Lite“ and Ex-Lite Z series are available as mains luminaires e.g. for specially safeguarded industrial networks in production plants, as “Ex-Lite V-CG-S” emergency lighting luminaires with individual function monitoring for use in CEAG emergency lighting supply systems, as well as “Ex-Lite N” and Ex-Lite ZE emergency lighting luminaires with self-contained battery systems and automatic function and operating time tests.

Green light for all zones

On account of the very robust, light alloy housing in the high degree of protection IP66, the Ex-Lite luminaire can be installed almost anywhere, both indoors and out. The luminaire is designed in the type of protection Ex e m ib IIC up to T6 as well as Ex tb IIIC T80 °C and in accordance with the ATEX Directive. It can be used in hazardous areas with explosive gas atmospheres (Zones 1 and 2) and explosive dust atmospheres (Zones 21 and 22).

Conformity to standards

The Ex-Lite explosion-protected escape sign luminaire series fulfils the requirements of ATEX Directive 2014/34/EU and EN 60598, Part 2.22 for emergency lighting luminaires. It is suited for marking escape routes and exits in hazardous areas. The housing of this luminaire is made of light alloy and it goes without saying that the escape sign comply with the latest standards.

Maintenance-free operation

The white LED technology used as the light source allows maintenance-free operation without replacement of the illuminant. The lighting values required for the escape sign are maintained throughout the complete service life of the LEDs, namely ca. 50,000 hours. It goes without saying that the supply electronics are also designed for this extremely long operating time. This reduces operating costs and increases the operating safety considerably, in particular in locations that are not easily accessible.

For international use

The LED escape sign luminaire of the Ex-Lite series was designed to meet the requirements of a large number of different safety concepts. Thanks to the wide input voltage range from 110 V to 277 V AC and up to 250 V DC, this luminaire can be used internationally, whereby the supply circuits of the LED circuits are intrinsically safe.

The internationally valid certificate „IECEx“ enhances the scope of this light fitting.

With the version Ex-Lite Z and Ex-Lite ZE a special version is available for use in the scope of the NEC regulations

The luminaire has a visibility range of 25 metres and it is available with a wide variety of pictograms, where country-specific solutions can be created without any problems.

Double safety

Whenever the operational safety of explosion- protected safety and escape sign luminaires is involved, there is no room for compromises, as only a luminaire that is fully functional at all times can save human lives. The new series of explosion-protected LED escape sign luminaires not only fulfils the extremely high explosion protection requirements, but it also fulfils the legal requirements for emergency and safety lighting installations. The new Ex-Lite is capable of safely showing the right way to go at all times, even in complex and often badly laid out industrial installations with hazardous areas.

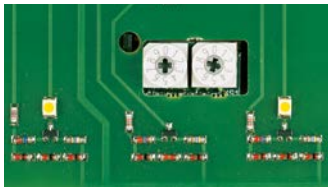
Ex-Lite ZE for NEC-application

Central emergency lighting supply via system luminaires with V-CG-S module

A central emergency lighting supply using CEAG group supply and central battery systems are used wherever a large number of emergency lighting luminaires can be combined and operated as system luminaires. These battery systems are generally installed outside the hazardous areas and, therefore, they are not subjected to the ambient conditions of the luminaires in the field. As a result, the operating life of the battery is relatively long and the amount of maintenance required is minimal. The mains and emergency lighting supplies of these luminaires are fed via separate circuits from the emergency lighting power supply installation to the escape sign luminaire in the hazardous area. Various luminaires with V-CG-S function can be operated in these circuits.

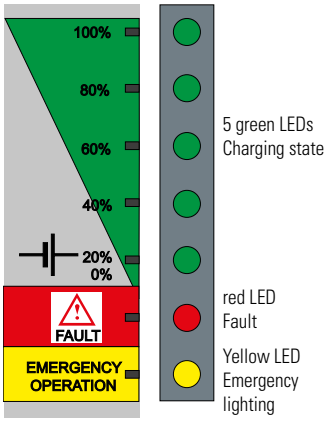
Better safe than sorry

In addition to the Ex-Lite for use as a mains luminaire, e.g. for specially safeguarded industrial networks in production plants, there is also the Ex-Lite V-CG-S version with a convenient monitoring function. In conjunction with the V-CG-S monitoring module with coding switch for max. 20 addresses, this luminaire can be operated as an emergency lighting luminaire with individual monitoring. The operator can programme the switching mode according to his individual requirements, thus allowing the operation of up to 20 luminaires with different switching modes in one end circuit.



Addressing switch in the Ex-Lite V-CG-S

No additional installation work is required. The central control unit monitors all the functions of the luminaire, checks the feed line for shorts or open circuits and indicates any incidents clearly on the display. Thus, even with highly complex installations, troubleshooting and eliminating faults are not a problem. Another considerable advantage: all the function and operating time tests are carried out automatically and recorded by the central control unit. This saves lots of time and money. During this function test, the correct functioning of the luminaire is monitored by the built-in V-CG-S module and any faults are reported to the central control unit. Thus, for example, the failure of LED groups is indicated automatically.



Emergency lighting luminaires with self-contained battery systems

Emergency lighting luminaires with self-contained battery systems provide the required emergency lighting from a decentralized source, independent of central systems. These luminaires are particularly economical when used in extensive plants. Until now, compared to centrally operated and monitored installations, the disadvantage of the emergency lighting luminaires with self-contained battery systems was that they did not provide any information on the state of the luminaire. However, this monitoring function has been incorporated in the Ex-Lite N escape sign luminaire. Five green LEDs supply constant information on the charge state and available battery capacity. A yellow LED indicates the emergency lighting operation mode and an additional red LED indicates any faults.

Monitoring functions

The extended self-monitoring with automatic function and partial duty cycle test is also new. The five green LEDs behind the protective cover provide continuous indication of the charge state and the current battery capacity. Charging is signalized by a flashing green LED. The charged capacity is indicated in 20% stages. The yellow LED indicates emergency lighting operation. An automatic function test lasting 5 minutes is carried out on a weekly basis. For this, the luminaire is switched electronically from mains to battery operation. The emergency lighting function is tested and any faults are indicated by the flashing red LED.

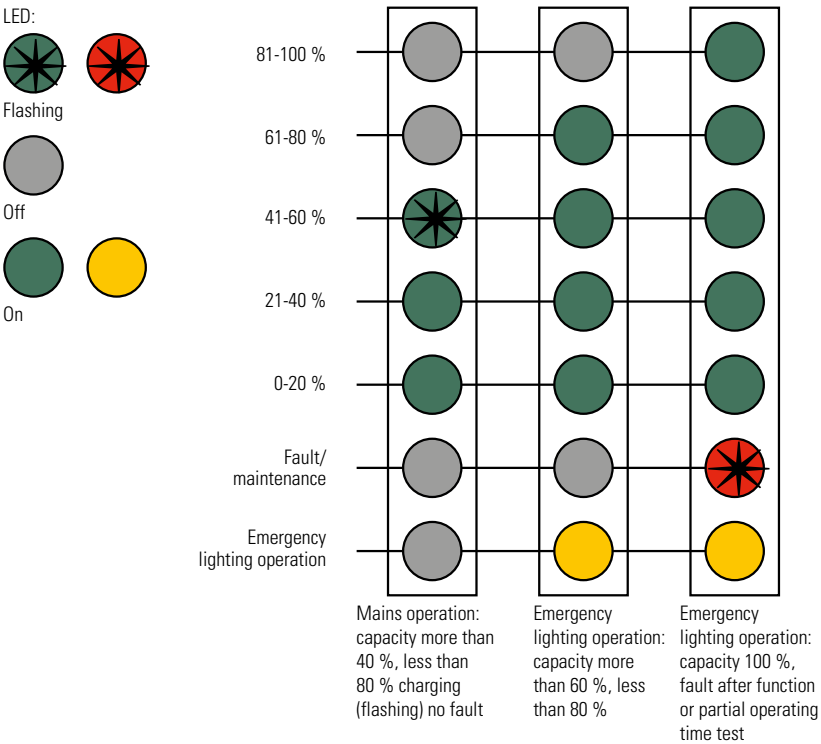
After ca. 3 months a partial operating time test (35 mins.) is initiated automatically. If a minimum emergency lighting operating time of 30 minutes is not reached, it is signalized by the flashing red LED. After the cause of the fault has been eliminated, e.g. by charging or replacing the battery, the fault indication is reset during the next emergency lighting operation (manual or automatic) when the minimum operating time of > 30 minutes has been reached.

Low temperature version down to -40 °C

A new version extending the temperature range from -40 °C up to +50 °C is available for the Ex-Lite LT and from -40 °C to +40 °C for the Ex-Lite NLT.

This means that the requirements for countries with extremely low ambient temperatures can be fulfilled.

A special luminaire heating system allows a safe charging / discharging of the Ex-Lite NLT, even at temperatures below the physically determined limit of -10 ° C.



Ordering details / Dimension drawing

Ex-Lite / Ex-Lite V-CG-S / Ex-Lite N / Ex-Lite Z / Ex-Lite ZE

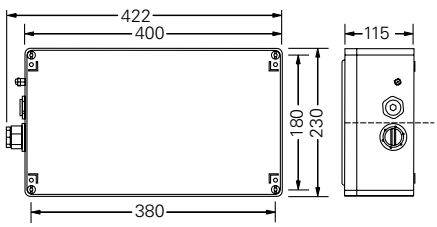
Ordering details standard temperature

	Type	Scope of delivery	Cable gland/Thread: Plastic cable glands	Cable gland/Thread: Screw plug	Cable gland/Thread: Metal thread	Standard Pictogram ISO 7010 Order No.	optional pictogram accord. to DIN 4844 Order No.	optional pictogram accord. to EN 1838 Order No.
	Ex-Lite	including cover with pictogram (arrow 3h)	1 x M25	1 x M25		**1 2191 011 021**	**1 2191 011 001**	**1 2191 011 011**
		including cover with pictogram (arrow 9h)	1 x M25	1 x M25		**1 2191 011 022**	**1 2191 011 002**	**1 2191 011 012**
		including cover with pictogram (arrow 6h)	1 x M25	1 x M25		**1 2191 011 023**	**1 2191 011 003**	**1 2191 011 013**
		including cover with pictogram (arrow 3h)			2 x M20	**1 2191 011 121**	**1 2191 011 101**	**1 2191 011 111**
		including cover with pictogram (arrow 9h)			2 x M20	**1 2191 011 122**	**1 2191 011 102**	**1 2191 011 112**
		including cover with pictogram (arrow 6h)			2 x M20	**1 2191 011 123**	**1 2191 011 103**	**1 2191 011 113**
	Ex-Lite V-CG-S	including cover with pictogram (arrow 3h)	1 x M25	1 x M25		**1 2191 021 021**	**1 2191 021 001**	**1 2191 021 011**
		including cover with pictogram (arrow 9h)	1 x M25	1 x M25		**1 2191 021 022**	**1 2191 021 002**	**1 2191 021 012**
		including cover with pictogram (arrow 6h)	1 x M25	1 x M25		**1 2191 021 023**	**1 2191 021 003**	**1 2191 021 013**
		including cover with pictogram (arrow 3h)			2 x M20	**1 2191 021 121**	**1 2191 021 101**	**1 2191 021 111**
		including cover with pictogram (arrow 9h)			2 x M20	**1 2191 021 122**	**1 2191 021 102**	**1 2191 021 112**
		including cover with pictogram (arrow 6h)			2 x M20	**1 2191 021 123**	**1 2191 021 103**	**1 2191 021 113**
	Ex-Lite N	including cover with pictogram (arrow 3h)	1 x M25	1 x M25		**1 2191 031 021**	**1 2191 031 001**	**1 2191 031 011**
		including cover with pictogram (arrow 9h)	1 x M25	1 x M25		**1 2191 031 022**	**1 2191 031 002**	**1 2191 031 012**
		including cover with pictogram (arrow 6h)	1 x M25	1 x M25		**1 2191 031 023**	**1 2191 031 003**	**1 2191 031 013**
		including cover with pictogram (arrow 3h)			2 x M20	**1 2191 031 121**	**1 2191 031 101**	**1 2191 031 111**
		including cover with pictogram (arrow 9h)			2 x M20	**1 2191 031 122**	**1 2191 031 102**	**1 2191 031 112**
		including cover with pictogram (arrow 6h)			2 x M20	**1 2191 031 123**	**1 2191 031 103**	**1 2191 031 113**
	Ex-Lite 24 V	including cover with pictogram (arrow 3h)	1 x M25	1 x M25		**1 2191 124 021**		
		including cover with pictogram (arrow 9h)	1 x M25	1 x M25		**1 2191 124 022**		
		including cover with pictogram (arrow 6h)	1 x M25	1 x M25		**1 2191 124 023**		
	Ex-Lite	including cover, clear, without pictogram	1 x M25	1 x M25		**1 2191 011 004**		
		including cover, clear, without pictogram			2 x M20	**1 2191 011 104**		
	Ex-Lite V-CG-S	including cover, clear, without pictogram	1 x M25	1 x M25		**1 2191 021 004**		
		including cover, clear, without pictogram			2 x M20	**1 2191 021 104**		
	Ex-Lite N	including cover, clear, without pictogram	1 x M25	1 x M25		**1 2191 031 004**		
		including cover, clear, without pictogram			2 x M20	**1 2191 031 104**		

	Type	Scope of delivery	Cable gland/Thread: Screw plug	Cable gland/Thread: Metal thread	Pictogram EXIT Order No
	Ex-Lite Z	including cover with red inscription „EXIT“, with CSA-certification	1 x M20	1 x 3/4“ [1]	**1 2191 001 005**
	Ex-Lite ZE	including cover with red inscription „EXIT“, self-contained emergency version with CSA-certification	1 x M20	1 x 3/4“ [1]	**1 2191 130 005**

[1] 1 x 3/4“ Myer Hub, 1 x M20 screw plug. Other silk-screen pictograms or inscriptions available on request.
A wide selection of cable glands can be found at www.crouse-hinds.de/products or in the catalogue Part 2, Section 3

Ex-Lite / Ex-Lite 24 V / Ex-Lite V-CG-S / Ex-Lite N / Ex-Lite Z / Ex-Lite ZE




arrow 3h


arrow 9 h


arrow 6 h

Dimensions in mm

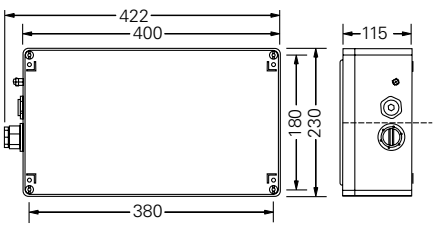
Ordering details deep temperature down to -40 °C

	Type	Scope of delivery	Cable gland/Thread			Standard Pictogram ISO 7010	optional Pictogram accord. to	
			Plastic cable glands	Screw plug	Metal thread		DIN 4844 	EN 1838 
						Order No.	Order No.	Order No.
	Ex-Lite LT	including cover with pictogram (arrow 3h)	1 x M25	1 x M25		**1 2191 013 021**	**1 2191 013 001**	**1 2191 013 011**
		including cover with pictogram (arrow 9h)	1 x M25	1 x M25		**1 2191 013 022**	**1 2191 013 002**	**1 2191 013 012**
		including cover with pictogram (arrow 6h)	1 x M25	1 x M25		**1 2191 013 023**	**1 2191 013 003**	**1 2191 013 013**
		including cover with pictogram (arrow 3h)			2 x M20	**1 2191 013 121**	**1 2191 013 101**	**1 2191 013 111**
		including cover with pictogram (arrow 9h)			2 x M20	**1 2191 013 122**	**1 2191 013 102**	**1 2191 013 112**
		including cover with pictogram (arrow 6h)			2 x M20	**1 2191 013 123**	**1 2191 013 103**	**1 2191 013 113**
	Ex-Lite V-CG-S	including cover with pictogram (arrow 3h)	1 x M25	1 x M25		**1 2191 021 021**	**1 2191 021 001**	**1 2191 021 011**
		including cover with pictogram (arrow 9h)	1 x M25	1 x M25		**1 2191 021 022**	**1 2191 021 002**	**1 2191 021 012**
		including cover with pictogram (arrow 6h)	1 x M25	1 x M25		**1 2191 021 023**	**1 2191 021 003**	**1 2191 021 013**
		including cover with pictogram (arrow 3h)			2 x M20	**1 2191 021 121**	**1 2191 021 101**	**1 2191 021 111**
		including cover with pictogram (arrow 9h)			2 x M20	**1 2191 021 122**	**1 2191 021 102**	**1 2191 021 112**
		including cover with pictogram (arrow 6h)			2 x M20	**1 2191 021 123**	**1 2191 021 103**	**1 2191 021 113**
	Ex-Lite NLT	including cover with pictogram (arrow 3h)	1 x M25	1 x M25		**1 2191 033 021**	**1 2191 033 001**	**1 2191 033 011**
		including cover with pictogram (arrow 9h)	1 x M25	1 x M25		**1 2191 033 022**	**1 2191 033 002**	**1 2191 033 012**
		including cover with pictogram (arrow 6h)	1 x M25	1 x M25		**1 2191 033 023**	**1 2191 033 003**	**1 2191 033 013**
		including cover with pictogram (arrow 3h)			2 x M20	**1 2191 033 121**	**1 2191 033 101**	**1 2191 033 111**
		including cover with pictogram (arrow 9h)			2 x M20	**1 2191 033 122**	**1 2191 033 102**	**1 2191 033 112**
		including cover with pictogram (arrow 6h)			2 x M20	**1 2191 033 123**	**1 2191 033 103**	**1 2191 033 113**
	Ex-Lite LT	including cover, clear, without pictogram	1 x M25	1 x M25		**1 2191 013 004**		
		including cover, clear, without pictogram			2 x M20	**1 2191 013 104**		
	Ex-Lite V-CG-S	including cover, clear, without pictogram	1 x M25	1 x M25		**1 2191 021 004**		
		including cover, clear, without pictogram			2 x M20	**1 2191 021 104**		
	Ex-Lite NLT	including cover, clear, without pictogram	1 x M25	1 x M25		**1 2191 033 004**		
		including cover, clear, without pictogram			2 x M20	**1 2191 033 104**		

Other silk-screen pictograms or inscriptions available on request

A wide selection of cable glands can be found at www.crouse-hinds.de/products or in the catalogue Part 2, Section 3

Ex-Lite LT / Ex-Lite V-CG-S / Ex-Lite NLT




arrow 3h


arrow 9 h


arrow 6 h

Dimensions in mm

Technical data

Ex-Lite / Ex-Lite 24 V /Ex-Lite LT / Ex-Lite N / Ex-Lite NLT / Ex-Lite V-CG-S

Technical data

	Ex-Lite / Ex-Lite LT / Ex-Lite 24 V	Ex-Lite V-CG-S	Ex-Lite N / Ex-Lite NLT
EC-Type Examination Certificate	PTB 02 ATEX 2111	PTB 02 ATEX 2111	PTB 02 ATEX 2111
Marking accd. to 2014/34/EU	Ⓔx II 2 G Ex e ib mb IIC T6/T5 Gb Ⓔx II 2 D Ex tb IIIC T80°C Db	Ⓔx II 2 G Ex e ib mb IIC T6/T5 Gb Ⓔx II 2 D Ex tb IIIC T80°C Db	Ⓔx II 2 G Ex e ib mb IIC T5/T4 Gb Ⓔx II 2 D Ex tb IIIC T80°C Db
IECEx Certificate of Conformity	IECEx BVS 13.0016	IECEx BVS 13.0016	IECEx BVS 13.0016
Marking accd. to IECEx	Ex e ib mb IIC T6/T5 Gb Ex tb IIIC T80°C Db	Ex e ib mb IIC T5/T4 Gb Ex tb IIIC T80°C Db	Ex e ib mb IIC T6/T5 Gb Ex tb IIIC T80°C Db
Permissible ambient temperature specified data	-20 °C up to +50 °C (T5) Ex-Lite/Ex-Lite 24 V -20 °C up to +40 °C (T6) Ex-Lite/Ex-Lite 24 V -40 °C up to +50 °C Ex-Lite LT	-40 °C up to +50 °C (T5) -40 °C up to +40 °C (T6)	-20 °C up to +50 °C (T4) Ex-Lite N -20 °C up to +40 °C (T5) Ex-Lite N -40 °C up to +40 °C Ex-Lite NLT +5 °C up to +35 °C / -40 °C up to +35 °C
Battery			NC-Accu 12 V/800 mAh
Rated power consumption	approx. 6 VA	approx. 6 VA	approx. 10 VA
Rated voltage	AC: 110 V - 277 V / 110 V - 254 V 50/60 Hz DC: 110 V - 250 V DC: 12 V - 24 V ±20 % (Ex-Lite 24 V)	AC: 220 V - 254 V, 50/60 Hz DC: 195 V - 250 V	AC: 110 V - 277 V / 110 - 240 V, 50/60 Hz DC: 110 V - 250 V
Rated current	DC: 220 V = 20 mA, 110 V = 40 mA	DC: 220 V = 20 mA, 110 V = 40 mA	230 V ≃ 50 mA, 110 V ≃100 mA
Charging duration (capacity > 90 %)			24 h
Power factor cos φ	≥ 0.95	≥ 0.95	≃ 0.5
Protection class	I	I	I
Viewing distance	up to 28 m	up to 28 m	up to 28 m
Lamp / Illuminant	high output LEDs, white	high output LEDs, white	high output LEDs, white
Rated emergency lighting duration			3 h
Dimensions (L x W x H)	400 x 230 x 115	400 x 230 x 115	400 x 230 x 115
Connecting terminals	4 x cage clamp loop-terminal max. 2.5 mm^2	4 x cage clamp loop-terminal max. 2.5 mm^2	4 x cage clamp loop-terminal max. 2.5 mm^2
Enclosure colour	grey, RAL 7035	grey, RAL 7035	grey, RAL 7035
Enclosure material	light alloy	light alloy	light alloy
Weight	6.2 kg	6.4 kg	6.7 kg
Cable glands / gland plates / enclosure drilling	1 x Ex e-cable gland M25 x 1.5 (plastic), 1 x Ex e-screw plug M25 x 1.5 or 2 x M20 x1.5 metal thread, 1 x screw plug M20	1 x Ex e-cable gland M25 x 1.5 (plastic), 1 x Ex e-screw plug M25 x 1.5 or 2 x M20 x1.5 metal thread, 1 x screw plug M20	1 x Ex e-cable gland M25 x 1.5 (plastic), 1 x Ex e-screw plug M25 x 1.5 or 2 x M20 x1.5 metal thread, 1 x screw plug M20
Type of mounting	wall mounting	wall mounting	wall mounting
Degree of protection accd. to EN 60529	IP66	IP66	IP66
Protective cover / protective bowl	mineral glass	mineral glass	mineral glass

Technical data

	Ex-Lite Z	EX-Lite ZE
Marking accd. to NEC 505/CEC 018	Class I, Zone 1, AEx em ib IIC T4/T5/T6 Ex em ib IIC T4/T5/T6	Class I, Zone 1 AEx em ib IIC T4/T5/T6 Class I, Zone 1 Ex em ib IIC T4/T5/T6
Marking accd. to NEC 500	Class I, Division 2, Groups A, B, C and D Class II, Division 2, Groups E, F and G	Class I, Division 2, Groups A, B, C and D Class II, Division 2, Groups E, F and G
UL/CSA Listing	1944328	1944328
Permissible ambient temperature specified data	-20 °C up to +40°C (T6) / -20 °C up to +50°C (T5)	-20 °C up to +40°C (T5) -20 °C up to +50°C (T4) -5 °C up to +35 °C
Battery		12 V/800 mAh NC-Accu
Rated power consumption	approx. 6 VA	approx. 8 VA
Rated voltage	110 V - 277 V AC / 110 V - 250 V DC	110 V - 277 V AC / 110 V - 250 V DC
Rated current AC/DC	220 V = 20 mA, 110 V = 40 mA	230 V ≃ 50 mA, 110 V ≃100 mA
Frequency	DC and 50 - 60 Hz (AC)	DC and 50 - 60 Hz (AC)
Charging duration (capacity > 90 %)		24 h
Power factor cos φ	≥ 0.95	≃ 0.5
Circuit	electronic power supply	electronic power supply
Protection class	I	I
Viewing distance	28 m	
Lamp / Illuminant	high output LEDs, red	high output LEDs, red
Rated emergency lighting duration		approx. 3 h (specified data +5 °C up to +35 °C)
Dimensions (L x W x H)	400 x 230 x 115 mm	400 x 230 x 115 mm
Connecting terminals	3 x loop terminal 2.5 mm²	3 x loop terminal 2.5 mm²
Enclosure colour	grey, RAL 7035	grey, RAL 7035
Enclosure material	light alloy	light alloy
Weight	6.2 kg	6.7 kg
Cable glands / gland plates / enclosure drilling	1 x adapter M25/ Meyer Hub 3/4'', 1 x screw plug M20	1 x adapter M25/ Meyer Hub 3/4'', 1 x screw plug M20
Type of mounting	wall mounting	wall mounting
Degree of protection accd. to EN 60529	IP66	IP66
Protective cover / protective bowl	mineral glass	mineral glass

C SA® US

C SA® US

Ex-emergency luminaires

Planete 400 AD DL LED emergency lighting luminaire with a self-contained battery system made of metal for Zone 1 and 21
AB 12108-EVG safety luminaire made of metal for Zone 1 and 21
EE 11 PL emergency lighting luminaire with a self-contained battery system made of metal for Zone 1 and 21

The robust safety concept for hazardous areas

With its robust flameproof enclosure made of copper-free aluminium (Cu < 0.1%), the high degree of protection IP67 and the protective tube made of borosilicate glass with high mechanical and thermal resistance, this luminaire series is ideal for use in areas with adverse environmental conditions.

Central monitoring

The Ex luminaire AB 12108-EVG is equipped with an electronic ballast and with an 8-W fluorescent lamp for mains and emergency lighting. With the optional built-in V-CG-S monitoring module with coding switch for max. 20 addresses, this luminaire can also be used as an individually monitored emergency lighting luminaire that is connected to a CEAG emergency lighting supply system. With this, the operator can programme the switching mode according to the respective requirements. Thus, as many as 20 luminaires with different switching modes can be connected to one end circuit.

LED emergency lighting luminaires with a self-contained battery system

The new Planete 400 AD DL completes our lighting portfolio with a robust light fitting in modern LED technology. An integrated micro-processor monitors the automatic function and duration test and green and yellow LEDs indicate the lighting status. The Planete 400 AD DL is equipped with 32 LEDs and ensures emergency duration of more than an hour. During mains supply (maintained operation) all LED will be on with reduced light output.

The classic solution for decentralized use

The Ex light fitting EE 11 PL with a self-contained battery system is fitted with an 11 W compact fluorescent lamp and is suitable for non-maintained operation. It has an additional 3 W for permanent lighting and is designed for a 1.5 hour emergency lighting duration. The charge status and the mains supply are also indicated by LEDs. The housing is made of a copper-free aluminium and has a borosilicate glass tube.

They are used for illuminating emergency exit routes, as well as an emergency light fitting for the identification of exits.

Features

- Housing made of copper-free aluminium with a borosilicate glass tube
- High degree of safety IP67
- 8 W fluorescent lamp for main and emergency lighting (AB 12 108-EVG)
- Maintenance-free LED illuminant with long lifespan (Planete 400)
- 11 W compact fluorescent lamp for emergency lighting (EE 11 PL)
- Operation and monitoring possible from CEAG emergency lighting system

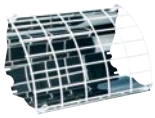
Ordering details

Type	Rated voltage	Thread	Ex-d Blanking plug	Order No.
Planete 400 AD DL	220 - 240 V AC	2 x 3/4" NPT, metal thread	1	**NOR 000 005 160 055**
Planete 400 AD DL		2 x M25, metal thread	1	**NOR 000 005 160 056**
AB 12108-EVG		2 x 3/4" NPT, metal thread	1	**NOR 000 005 060 820**
EE 11 PL 220 - 240 V, 1.5 h	220 - 240 V AC	2 x M25, metal thread	1	**NOR 000 005 160 010**
EE 11 PL 108 - 127 V, 1.5 h	108 - 127 V AC	2 x M25, metal thread	1	**NOR 000 005 160 011**
EE 11 PL 220 - 240 V, 1.5 h	220 - 240 V AC	2 x 3/4" NPT, metal thread	1	**NOR 000 005 160 013**
EE 11 PL 108 - 127 V, 1.5 h	108 - 127 V AC	2 x 3/4" NPT, metal thread	1	**NOR 000 005 160 014**

Other silk-screen pictograms or inscriptions available on request

A wide selection of cable glands can be found at www.crouse-hinds.de/products or in the catalogue Part 2, Section 3

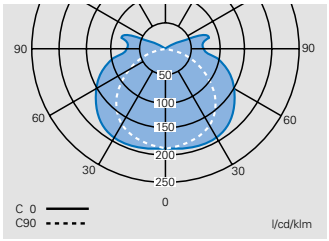
Accessories



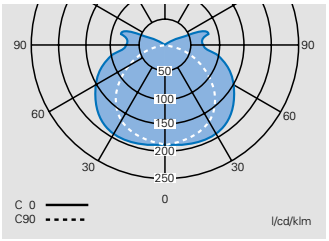
Type	OU	Order No.
Pictogram foil with arrow 3 h	1	**NOR 000 000 506 915**
Pictogram foil with arrow 9 h	1	**NOR 000 000 506 907**
Pictogram foil with arrow 6 h	1	**NOR 000 000 506 966**
Pictogram foil with arrow 12 h	1	**400 71 354 383**
Pictogram foil with „EXIT"	1	**NOR 000 000 506 965**
Reflector RAB 108 (AISI 304)	1	**NOR 003 045 060 471**
Reflector RAB 108 (AISI 304) + guard (steel white epoxy coating)	1	**NOR 003 045 060 819**
Reflector RAB 108 (AISI 316)	1	**NOR 003 165 060 471**
Reflector RAB 108 (AISI 316) + guard (steel white epoxy coating)	1	**NOR 003 165 060 819**

Polar curves / dimension drawing

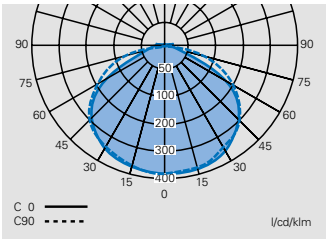
AB 12108 EVG / EE 11 PL / Planete 400 AD DL



Polar curve
AB 12108-EVG

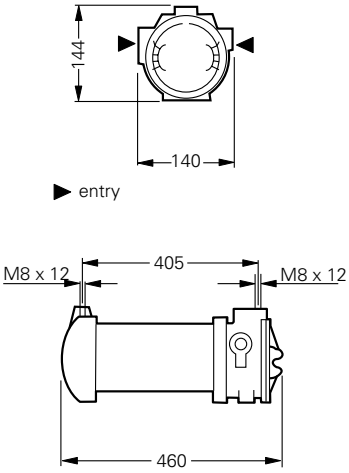


Polar curve
EE 11 PL

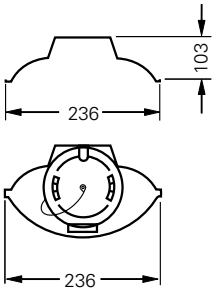


Polar curve
Planete 400

AB 12108-EVG / EE 11 PL / Planete 400



Reflector / Reflector with guard



Dimensions in mm



Technical data

	Planete 400 AD DL	AB 12108 EVG	EE 11 PL
EC-Type Examination Certificate	LOM 03 ATEX 2036 X	LOM 02 ATEX 2013 X	LOM 03 ATEX 2036 X
IECEx Certificate of Conformity		IECEx BKI 07.0008 X	
Marking accd. to 2014/34/EU	Ⓔx II 2 G Ex d IIC T6 Gb Ⓔx II 2 D Ex tb IIIC T85 °C Db	Ⓔx II 2 G Ex d IIC T6/T5 Gb Ⓔx II 2 D Ex tb IIIC T58 °C/T73 °C Db	Ⓔx II 2 G Ex d IIC T6 Gb Ⓔx II 2 D Ex tb IIIC T85 °C Db
Marking accd. to IECEx		Ex de IIC T6/T5 Gb Ex tb IIIC T58 °C/T73 °C Db	
Permissible ambient temperature specified data	-20 °C up to +55 °C -5 °C up to +35 °C	-20 °C up to +55 °C (temperature class T5), -20 °C up to +40 °C (temperature class T6) -20 °C up to +40 °C	-20 °C up to +55 °C -5 °C up to +35 °C
Battery	1.7 Ah NC-accumulator		4 Ah NC-accumulator
Rated power consumption	1.1 W	approx. 16 VA	approx. 16 VA
Rated voltage	220 - 240 V AC	220 - 230 V AC 220 V DC +25 %/-20 %	220 - 240 V AC
Rated voltage (optional)			108 V - 127 V AC
Frequency	50 -60 Hz	50 Hz	50 -60 Hz
Charging duration	≥ 14 h		≥ 24 h
Power factor cos φ	0.95	0.95	0.95
Rated operating duration	1.0 h	for central battery system	1.5 h
Circuit		EVG	
Protection class	I	I	I
Viewing distance	12 m	12 m	12 m
Lamp / Illuminant	32 LEDs , 5.5 W	1 x 8 W/T5-fluorescent lamp for mains- and emergency operation	1 x 11 W compact fluorescent lamp for emergency operation
Lamp cap	--	G5 accord. IEC 60061	2G7 accord. IEC 60061
Luminous flux in mains operation	16 lm	450 lm [1)]	--
Luminous flux in emergency operation	471 lm	337 lm (75 %) [1)]	630lm [1)]
Pilot lamp			white LED
Dimensions (L x W x H)	460 x 144 x 140 mm	460 x 144 x 140 mm	460 x 144 x 140 mm
Connecting terminals	L, N and PE: 2 x 2, 5 mm² / PE ext. 2 x 6 mm²	L, N and PE: 2 x 2, 5 mm² / PE ext. 2 x 6 mm²	L, N and PE: 2 x 2, 5 mm² / PE ext. 2 x 6 mm²
Enclosure colour	grey RAL 7032 (body), RAL 7016 (cover)	grey RAL 7032 (body), RAL 7016 (cover)	grey RAL 7032 (body), RAL 7016 (cover)
Enclosure material	copper-free aluminium with powder coating	copper-free aluminium with powder coating	copper-free aluminium with powder coating
Weight	5.0 kg	5.3 kg	5.6 kg
Cable glands / gland plates / enclosure drilling	2 x 3/4" thread, 1 x 3,/4" screw plug or 2 x M25 thread, 1 x M25 screw plug	2 x 3/4" thread, 1 x 3,/4" screw plug or 2 x M25 thread, 1 x M25 screw plug	2 x 3/4" thread, 1 x 3,/4" screw plug or 2 x M25 thread, 1 x M25 screw plug
Type of mounting	ceiling-/wall mounting	ceiling-/wall mounting	ceiling-/wall mounting
Degree of protection accd. to EN 60529	IP67	IP67	IP67
Protective cover / protective bowl	borosilicate glass	borosilicate glass	borosilicate glass

[1)] depends on used lamps

Ex-signal and escape sign luminaire

dKLK 23 / dKLK 23 LED

3 Plastic design for Zone 1 and 21

Securing and signalling

These light fittings meet the requirements of ATEX-Directive 2014/34/EU for temperature class T6. They are certified for use in hazardous areas in Zones 1 and 2 with a temperature class up to T6, as well as for explosive dust atmospheres in Zones 21 and 22. What is more, they also meet the requirements in accordance with EN 60598, Part 2.22 for emergency lighting.

The Ex light fittings dKLK 23 are suited for compact fluorescent lamps with an integrated electronic ballast and outputs of 5-8 W. If a flash module is fitted in the housing (optional), the light fitting can be used also as a strobe light.

The dKLK 23 LED version is supplied with a 6 W LED lamp. This combines the innovative LED technology with main features, such as:

- Energy saving
- Environmentally friendly because mercury free
- Long service life
- Cost-saving due to long maintenance intervals
- Ideally suited for intermittent operation as flashing light

The housing is made of a fibreglass reinforced polyester and the protective globe of a transparent or coloured polycarbonate.

When fitted with coloured protective cover, they are also used as signal lights. In combination with the exit cubes, they are used as emergency lighting luminaires.

The luminaire is connected using a flameproof eXLink coupler plug or via a flameproof cable gland.

With the optional V-CG-S monitoring module with coding switch for max. 20 addresses, they can be connected as individually monitored emergency lighting luminaires to the CEAG emergency lighting supply system (dKLK 23 V-CG-S).

Features

- Signal light fitting, also with coloured protective globe, for use in environments in temperature class T6
- For compact fluorescent lamps with integrated EVG
- Optionally, LED-lamp
- For ceiling and wall mounting
- High degree of protection IP66
- Connection to the CEAG emergency lighting supply systems with individual monitoring possible
- Optional flash module

Ordering details

Type	Scope of delivery	Colour of protective cover	Order No.
dKLK 23/eXLink	1 x eXLink coupler 2-pol. + PE for cable Ø 7.5 - 11 mm	clear	**GHG 871 1001 R0001**
dKLK 23/eXLink	1 x eXLink coupler 2-pol. + PE for cable Ø 7.5 - 11 mm	red	**GHG 871 1101 R0001**
dKLK 23/eXLink	1 x eXLink coupler 2-pol. + PE for cable Ø 7.5 - 11 mm	green	**GHG 871 1201 R0001**
dKLK 23/eXLink	1 x eXLink coupler 2-pol. + PE for cable Ø 7.5 - 11 mm	blue	**GHG 871 1301 R0001**
dKLK 23 V-CG-S /eXLink [1]	1 x eXLink coupler 2-pol. + PE for cable Ø 7.5 - 11 mm, with V-CG-S-module and address-switch	clear	**GHG 871 2001 R0001**

dKLK 23/Ex d	1 x Ex-d-cable gland M20 x 1.5 for Ø 7 - 12 mm	clear	**GHG 871 1001 R0101**
dKLK 23/Ex d	1 x Ex-d-cable gland M20 x 1.5 for Ø 7 - 12 mm	red	**GHG 871 1101 R0101**
dKLK 23/Ex d	1 x Ex-d-cable gland M20 x 1.5 for Ø 7 - 12 mm	green	**GHG 871 1201 R0101**
dKLK 23/Ex d	1 x Ex-d-cable gland M20 x 1.5 for Ø 7 - 12 mm	blue	**GHG 871 1301 R0101**
dKLK 23 V-CG-S /Ex d [1]	1 x Ex-d-cable gland M20 x 1.5 for Ø 7 - 12 mm with V-CG-S-module and address-switch	clear	**GHG 871 2001 R0101**

dKLK 23 LED/eXLink	1 x eXLink coupler 2-pol. + PE for cable Ø 7.5 - 11 mm	clear	**GHG 871 4021 R0001**
dKLK 23 LED/eXLink	1 x eXLink coupler 2-pol. + PE for cable Ø 7.5 - 11 mm	red	**GHG 871 4121 R0001**
dKLK 23 LED/eXLink	1 x eXLink coupler 2-pol. + PE for cable Ø 7.5 - 11 mm	green	**GHG 871 4221 R0001**
dKLK 23 LED/eXLink	1 x eXLink coupler 2-pol. + PE for cable Ø 7.5 - 11 mm	blue	**GHG 871 4321 R0001**

dKLK 23 LED/Ex d	1 x Ex-d-cable gland M20 x 1.5 for Ø 7 - 12 mm	clear	**GHG 871 4021 R0101**
dKLK 23 LED/Ex d	1 x Ex-d-cable gland M20 x 1.5 for Ø 7 - 12 mm	red	**GHG 871 4121 R0101**
dKLK 23 LED/Ex d	1 x Ex-d-cable gland M20 x 1.5 for Ø 7 - 12 mm	green	**GHG 871 4221 R0101**
dKLK 23 LED/Ex d	1 x Ex-d-cable gland M20 x 1.5 for Ø 7 - 12 mm	blue	**GHG 871 4321 R0101**

1) For connection to CEAG emergency supply systems, with address switch for 20 addresses.

A wide selection of cable glands can be found at www.crouse-hinds.de/products or in the catalogue Part 2, Section 3

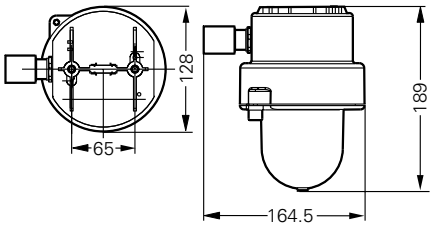
Accessories

Type	Order No.
Flash module Eurolite E27 Strobe	**GHG 870 1912 R0001**
Exit sign cube (242 x 227 x 242 mm)	**400 71 344 115**
Compact fluorescent lamp 7 W with EVG	**GHG 870 9302 P0002**
Philips Master LED lamp 6W E27 CW 55	**GHG 870 1914 R0001**

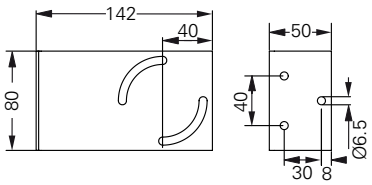
Dimension drawing / Polar curve

dKLK 23 / dKLK 23 LED / dKLK 23 V-CG-S

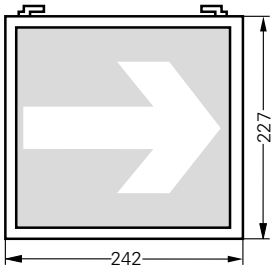
dKLK 23

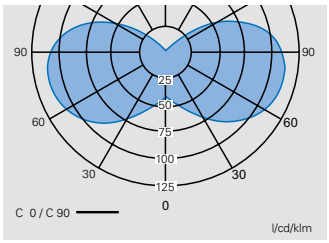


Mounting bracket



Exit sign cube





Polar curve
dKLK 23 / dKLK 23 V-CG-S

Dimensions in mm

Technical data

	dKLK 23	dKLK 23 LED	dKLK 23 V-CG-S
EC-Type Examination Certificate	BVS 10 ATEX E 003	BVS 10 ATEX E 003	BVS 10 ATEX E 003
IECEx Certificate of Conformity	IECEx BVS 10.0003	IECEx BVS 10.0003	IECEx BVS 10.0003
Marking accd. to 2014/34/EU	Ⓔx II 2G Ex d IIC T6 Gb Ⓔx II 2D Ex tb IIIC T80°C Db IP66	Ⓔx II 2G Ex d IIC T6 Gb Ⓔx II 2D Ex tb IIIC T80°C Db IP66	Ⓔx II 2G Ex d IIC T6 Gb Ⓔx II 2D Ex tb IIIC T80°C Db IP66
Marking accd. to IECEx	Ex d IIC T6 Gb Ex tb IIIC T80°C Db	Ex d IIC T6 Gb Ex tb IIIC T80°C Db	Ex d IIC T6 Gb Ex tb IIIC T80°C Db
Permissible ambient temperature	-20 °C up to +45 °C (dept. on lamp power and operating position)	-20 °C up to +40 °C	-20 °C up to +45 °C (dept. on lamp power and operating position)
Rated voltage	230 V AC / 230 V DC	230 V AC	230 V AC / 230 V DC
Rated current	approx. 30 mA	approx. 30 mA	approx. 40 mA
Frequency	50 - 60 Hz (AC)	50 - 60 Hz (AC)	50 - 60 Hz (AC)
Power factor cos φ	≥ 0.95	≥ 0.95	≥ 0.95
Protection class	I	I	I
Lamp / Illuminant	Compact-fluorescent lamp with integrated electr. ballast, lamp cap E27, lamp power 5-8 W, manufacturer Philips MASTER PL Electronic 5W/8 W or equivalent; flashmodule (see accessories)	Philips Master LED 6 W	Compact-fluorescent lamp with integrated electr. ballast, lamp cap E27, lamp power 5-8 W, manufacturer Philips MASTER PL Electronic 5W/8 W or equivalent;
Rated luminous flux	approx. 400 lm (7/8 W) [1]	approx. 470 lm [1]	approx. 400 lm (7/8 W) [1]
Lamp cap	E27 accord. IEC 60238	E27 accord. IEC 60238	E27 accord. IEC 60238
Dimensions (L x W x H)	164.5 x 189 x 128 mm	164.5 x 189 x 128 mm	164.5 x 189 x 128 mm
Connecting terminals	flameproof inlet eXLink, 3-pole, 2 + PE, cage clamp terminal for cable Ø 8-11 mm, max. 1.5 mm² or flameproof cable gland M20 x 1.5 for cable Ø 7 - 12 mm; terminal L, N, PE max. 2.5 mm² clamp terminal	flameproof inlet eXLink, 3-pole, 2 + PE, cage clamp terminal for cable Ø 8-11 mm max. 1.5 mm² or flameproof cable gland M20 x 1.5 for cable Ø 7 - 12 mm, terminal L, N, PE max. 2.5 mm² clamp terminal	flameproof inlet eXLink, 3-pole, 2 + PE, cage clamp terminal for cable Ø 8-11 mm max. 1.5 mm² or flameproof cable gland M20 x 1.5 for cable Ø 7 - 12 mm, terminal L, N, PE max. 2.5 mm² clamp terminal
Enclosure colour	RAL 1013	RAL 1013	RAL 1013
Enclosure material	Glass-fibre reinforced polyester	Glass-fibre reinforced polyester	Glass-fibre reinforced polyester
Weight	1.7 kg	1.7 kg	1.7 kg
Degree of protection accd. to EN 60529	IP66	IP66	IP66
Protective cover / protective bowl	Polycarbonate	Polycarbonate	Polycarbonate

[1] depends on used lamps