

Translation

(1) Type Examination Certificate

- (2) Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC
- (3) No. of Type Examination Certificate: **BVS 15 ATEX E 074**
- (4) Equipment: **Exit luminaire type EXIT 2 ***
- (5) Manufacturer: **Cooper Crouse-Hinds GmbH**
- (6) Address: **Neuer Weg-Nord 49, 69412 Eberbach, Germany**
- (7) The design and construction of this equipment and any acceptable variation thereto are specified in the appendix to this type examination certificate.
- (8) The certification body of DEKRA EXAM GmbH certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design of Category 3 equipment intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in the Test and Assessment Report BVS PP 15.2112 EG.
- (9) The Essential Health and Safety Requirements are assured by compliance with:
- | | |
|---------------------------------|-------------------------------------|
| EN 60079-0:2012+A11:2013 | General requirements |
| EN 60079-7:2007 | Increased safety 'e' |
| EN 60079-11:2012 | Intrinsic safety 'i' |
| EN 60079-18:2009 | Encapsulation 'm' |
| EN 60079-31:2009 | Protection by enclosures 't' |
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the appendix to this certificate.
- (11) This Type Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
- (12) The marking of the equipment shall include the following:



II 3G Ex e ic mc IIC T*¹⁾ Gc
II 3D Ex tc IIIC T80°C Dc

¹⁾The temperature class depends on type and ambient temperature. See also cl. 15.3 parameters.

DEKRA EXAM GmbH
 Bochum, dated 2015-06-29

Signed: Simanski

 Certification body

Signed: Dr. Wittler

 Special services unit

- (13) Appendix to
- (14) **Type Examination Certificate**
BVS 15 ATEX E 074
- (15) 15.1 Subject and type

LED exit luminaire type EXIT 2 *1)

1) Details on luminaire variant

none	standard variant
CG-S	luminaire with CG-S module to be connected to a central battery system
N	emergency luminaire with internal battery pack
24V	power supply unit (PSU) with input voltage range from 12 to 24 V
V-CG-S	successor of the CG-S module with new electronic components

15.2 Description

The LED exit luminaire or emergency luminaire is an explosion-protected electrical equipment intended for use in potentially explosive atmospheres. It consists of a plastic enclosure with cover onto which the emergency sign is fixed. The joint between enclosure top and enclosure bottom is sealed by a gasket.

Standard variant:

White LEDs are used as source of light; these are assembled on a specific circuit board, the so-called LED unit. Overall, ten strings of 3 LEDs each are supplied by a separate PSU.

CG-S:

In conjunction with the EXIT CG-S module the luminaire can be connected to the CEAG central battery system and controlled. The EXIT CG-S module is mechanically inserted into the same enclosure as the PSU and also potted. The module is assembled as an independent unit in the lower housing part as the PSU module.

N:

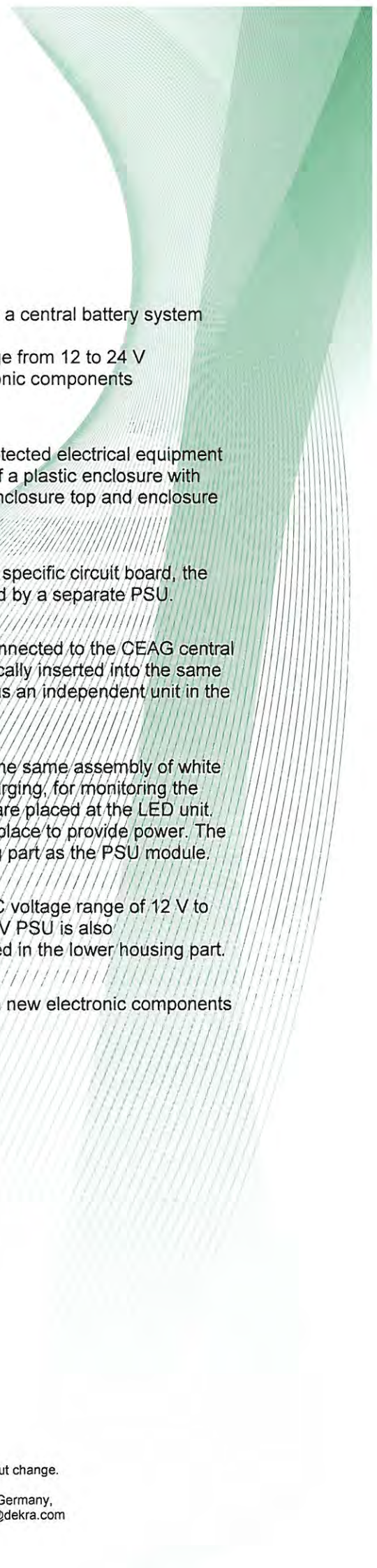
The emergency luminaire is based on the same components and the same assembly of white LEDs as the standard variant. Additionally, the components for charging, for monitoring the charging and discharging processes and the capacitance counter are placed at the LED unit. In case of mains failure two battery blocks of five cells each are in place to provide power. The energy storage is assembled as an independent unit lower housing part as the PSU module.

24V:

Instead of a PSU with a large input voltage range, a PSU with a DC voltage range of 12 V to 24 V is mounted onto the LED unit of the standard variant. The 24 V PSU is also accommodated in the separately potted enclosure and is assembled in the lower housing part.

V-CG-S:

Successor of the CG-S variant. The CG-S module is equipped with new electronic components and is called V-CG-S.



15.3 Parameters

Type	Voltage [V]	AC / DC	Frequency [Hz]	Ambient temperature	Temperature class / surface temperature
EXIT 2	110 – 277	AC	50 / 60	$-20\text{ °C} \leq T_a \leq 40\text{ °C}$	T6 / T80 °C
				$-20\text{ °C} \leq T_a \leq 50\text{ °C}$	T5 / T80 °C
	110 – 250	DC	---	$-20\text{ °C} \leq T_a \leq 40\text{ °C}$	T6 / T80 °C
				$-20\text{ °C} \leq T_a \leq 50\text{ °C}$	T5 / T80 °C
EXIT 2 N	110 – 277	AC	50 / 60	$-20\text{ °C} \leq T_a \leq 40\text{ °C}$	T5 / T80 °C
				$-20\text{ °C} \leq T_a \leq 50\text{ °C}$	T4 / T80 °C
	110 – 250	DC	---	$-20\text{ °C} \leq T_a \leq 40\text{ °C}$	T5 / T80 °C
				$-20\text{ °C} \leq T_a \leq 50\text{ °C}$	T4 / T80 °C
EXIT 2 CG-S	220 – 254	AC	50 / 60	$-20\text{ °C} \leq T_a \leq 40\text{ °C}$	T6 / T80 °C
				$-20\text{ °C} \leq T_a \leq 50\text{ °C}$	T5 / T80 °C
	195 – 250	DC	---	$-20\text{ °C} \leq T_a \leq 40\text{ °C}$	T6 / T80 °C
				$-20\text{ °C} \leq T_a \leq 50\text{ °C}$	T5 / T80 °C
EXIT 2 24 V -15 % -/+20 %	12 – 24	DC	---	$-20\text{ °C} \leq T_a \leq 40\text{ °C}$	T6 / T80 °C
				$-20\text{ °C} \leq T_a \leq 50\text{ °C}$	T5 / T80 °C
EXIT 2 V-CG-S	220 – 254	AC	50 / 60	$-20\text{ °C} \leq T_a \leq 50\text{ °C}$	T4 / T80 °C
	195 – 250	DC	---		

(16) Test and Assessment Report

BVS PP 15.2112 EG as of 2015-06-29

(17) Special conditions for safe use

None

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

DEKRA EXAM GmbH
44809 Bochum, 2015-06-29
BVS-Sit/Mu A 20140521



Certification body



Special services unit