

1. **EC-TYPE EXAMINATION CERTIFICATE**
2. **Equipment or Protective System Intended for use in
Potentially explosive atmospheres
Directive 94/9/EC**
3. Reference: **VTT 09 ATEX 001**
4. Equipment: **Portable luminaire**
Certified types: **CentaurSlam Hornet LED 3x3W and
CentaurSlam Hornet LED 3x3W Box Version**
5. Manufactured by: **Centaurea Oy**
6. Address: **Kipinätie 1
FI-60510 Hyllykallio
Finland**
7. This equipment or protective system and any acceptable variations thereto is specified in the schedule and possible supplement(s) to this Certificate and the documents therein referred to.
8. VTT, notified body number 0537, in accordance with Article 9 of the Council Directive 94/9/EC of March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective system intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. VTT-S-00411-09.
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

IEC 60079-0 (2007)
EN 60079-7 (2007)
EN 60079-18 (2004)
EN 60079-28 (2004)
EN 61241-1 (2004)



10. If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
11. This EC-Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.
12. The marking of the equipment or protective system shall include the following:

CentaurSlam Hornet LED 3x3W



II 2 G Ex e mb op is IIB T4 Gb
II 2 D Ex t IIIC T75°C Db
IP 66

or



II 2 G Ex e mb op is IIC T4 Gb
II 2 D Ex t IIIC T75°C Db
IP 66

CentaurSlam Hornet LED 3x3W Box Version

Luminaire unit:



II 2 G Ex e mb op is IIB T6 Gb
II 2 D Ex t IIIC T75°C Db
IP 66

or



II 2 G Ex e mb op is IIC T6 Gb
II 2 D Ex t IIIC T75°C Db
IP 66

Supply unit :



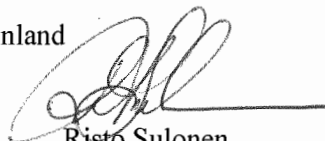
II 2 G Ex e mb IIC T6 Gb
II 2 D Ex t IIIC T55°C
IP 66 or IP 65

Espoo, 3.3.2009

VTT, Technical Research Centre of Finland



Pertti Kokkonen
Research engineer



Risto Sulonen
Senior research scientist

13. **Schedule**14. **EC-TYPE EXAMINATION CERTIFICATE VTT 09 ATEX 001**

15. Description of Equipment

Rated values

Power	3x3 W
Voltage	12 VAC/DC, 24 VAC/DC, 42 VAC/DC, 110 V AC/DC or 230 VAC
Frequency	0 Hz, 50 Hz, 60 Hz

CentaurSlam Hornet LED 3x3W

Portable luminaire with three LEDs and electronic ballast. Electronic ballast is moulded with silicone rubber. The whole assembly, LEDs and ballast, together with connecting devices for supply cable has been built into the enclosure made of polycarbonate tube with thermoplastic endplates. In the luminaire with marking IIB there is orange colour elastomeric endplates. In the luminaire with marking IIC there is black colour antistatic polyurethane endplates. The luminaire is fitted with a permanently connected cable H07RN-F or cable having at least equally robust construction. A plug is not covered by the Certificate.

CentaurSlam Hornet LED 3x3W Box Version

Portable luminaire with three LEDs and electronic ballast. Electronic ballast is moulded with silicone rubber and located inside separate box (supply unit). The whole assembly, LEDs, together with connecting devices for supply cable from supply unit has been built into the enclosure made of polycarbonate tube with thermoplastic endplates. In the luminaire unit with marking IIB there is orange colour elastomeric endplates in the luminaire unit with marking IIC there is black colour antistatic polyurethane endplates. The luminaire is fitted with a permanently connected cable H07RN-F or cable having at least equally robust construction. A plug is not covered by the Certificate.

Construction variations

- A: Only with supply cable (H07RN-F) or equivalent)
- 2 P: Construction which is protected against direct contact to the metallic parts of luminaire. No protective earthing (PE) conductor.
- 3 P: Construction with protective earthing (PE) conductor.

Drawings and documents: Technical file CSH33 version 1.0

16. Report No. VTT-S-00411-09.

17. Special conditions for safe use

None

18. Essential Health and Safety Requirements

Met by the compliance with the standards: IEC 60079-0 (2007), EN 60079-7 (2007), EN 60079-18 (2004), EN 60079-28 (2004), EN 61241-1 (2004)

Espoo, 3.3.2009

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