



1. **EC-TYPE EXAMINATION CERTIFICATE**
2. **Equipment or Protective System Intended for use in  
Potentially explosive atmospheres  
Directive 94/9/EC**
3. Reference: **VTT 03 ATEX 042**
4. Equipment: **Portable Luminaire**  
Certified type: **SLAM HORNET 3x40W**
5. Manufactured by: **Centaurea Oy**
6. Address: **Viilutie 4  
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 Industrial Systems, 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. TUO26-032640.
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 50014 (1997) + A1&A2  
EN 50019 (2000)  
EN 50028 (1987)**



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:



II 2 G

EEx em II T3

Espoo, 09.06.2003

VTT INDUSTRIAL SYSTEMS  
Electrical Ex-apparatusI018  
(EN45004, liite A)Risto Sulonen  
Senior research scientistPertti Kokkonen  
Research engineer

13. **Schedule**14. **EC-TYPE EXAMINATION CERTIFICATE VTT 03 ATEX 042**

## 15. Description of Equipment

**Portable Luminaire: Slam Hornet 3x40 W**Rated values

Power	3 x 40 W
Voltage	24 V AC/DC, 42 V AC/DC, 110 or 230 V AC/DC
$I_{kmax}$	35 A

Basic Construction

## SH340:

Portable luminaire with three fluorescent lamps and electronic ballast. The lamp cap with connecting terminals and the electronic ballast circuits have been moulded with silicone rubber. The assembly, lamp and ballast, together with connecting devices for supply cable and reflector has been built into the enclosure made of aluminium and polycarbonate front cover. The polycarbonate cover has been treated with a conductive polymer which makes the tube light green. The luminaire is fitted with a cable H07RN-F or a cable having at least equally robust construction. A plug is not covered by the Certificate.

Variations

SH340A: The type with a wiring through the luminaire

SH340C: The type with an Ex-certified socket-outlet

Degree of protection IP 54Drawings and documents:

<b>Number</b>	<b>Date</b>	<b>Description</b>
SH340A_R_290403c		SH340A Exploded view
SH340A	09.05.2003	SH340A Parts list
10738_2	21.03.2003	SH340A Dimensions drawing

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SH340C_R_050503	SH340C Exploded view
SH340C 09.05.2003	SH340C Parts list
KAK13B 18.03.02	Electronic ballast TMK 13xx Circuit Diagram
kak13B.pcb 20.02.2003	Lay-out of the PCB of the electronic ballast TMK 13xx
TMK1303 06.03.2003	Parts list of the electronic ballast for 24 V
TMK1313 05.03.2003	Parts list of the electronic ballast for 42 V
TMK1333 06.03.2003	Parts list of the electronic ballast for 110-230 V

16. Report No. TUO26-032640.

17. Special conditions for safe use

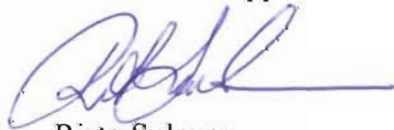
None

18. Essential Health and Safety Requirements

Met by the compliance with the standards EN 50014, EN 50019 and EN 50028.

Espoo, 09.06.2003

VTT INDUSTRIAL SYSTEMS  
Electrical Ex-apparatus



Risto Sulonen  
Senior research scientist



I018  
(EN45004, liite A)



Pertti Kokkonen  
Reserach engineer

**SUPPLEMENT TO EC-TYPE EXAMINATION CERTIFICATE  
VTT 02 ATEX 016, VTT 03 ATEX 041, VTT 03 ATEX 042, VTT 03 ATEX  
046, VTT 03 ATEX 071, VTT 03 ATEX 074 and VTT 04 ATEX 084**

Requested by:

**Centaurea Oy, FINLAND**

Apparatus:

**Portable luminaires,**

**Certified type: Slam Hornet 1 x 11 W RL, 1 x 18 W, 1 x 36 W, 2 x 36 W, 2 x 36 W  
Linear, 3 x 40 W**

Summary:

Above-mentioned luminaires fulfill requirements of the standard EN 60079-7:2007 clause 6.3.2.3 (the asymmetric pulse test and the asymmetric power dissipation test). Test results are recorded in VTT Test Report no. VTT-S-05590-07.

Espoo, 18.6.2007

VTT TECHNICAL RESEARCH CENTRE OF FINLAND



Risto Sulonen  
Senior research scientist



Jari Kettunen  
Research engineer