



1. **EC-TYPE EXAMINATION CERTIFICATE**

2. **Equipment or Protective System Intended for use in
Potentially explosive atmospheres
Directive 94/9/EC**

3. Reference: **VTT 08 ATEX 066 Issue 2**

4. Equipment: **Portable luminaire**

Certified types: **Slam[®] Hornet 18W, 36W, 2x18W, 2x36W
Slam[®] Hornet 1 LED, 2 LED, Linear 2 LED**

5. Manufactured by: **Atexor Oy**

6. Address: **Puurtafantie 16
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 Expert Services Ltd, 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-07085-13.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0 (2009)
EN 60079-7 (2007)
EN 60079-18 (2009)
EN 60079-28 (2007)
EN 60079-31 (2009)**

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:

Slam® Hornet 18 W, 36 W, 2x18 W, 2x36 W



**II 2 G Ex e mb IIC T3 Gb
II 2 D Ex tb IIC T90°C Db
IP 66**

Slam® Hornet 1 LED, 2 LED, Linear 2 LED



**II 2 G Ex e mb op is IIC T4 Gb
II 2 D Ex tb op is IIC T90°C Db
IP 66**

Espoo, 14.10.2013

VTT Expert Services Ltd



Tiina Ala-Outinen
Business Manager



Risto Sulonen
Product Manager



13. **Schedule**14. **EC-TYPE EXAMINATION CERTIFICATE VTT 08 ATEX 066 Issue 2**

15. Description of Equipment

Rated values

Slam® Hornet 18 W, 36 W, 2x18 W, 2x36 W

Power	18W, 36W, 2x36W
Voltage	12 V, 24 V, 42 V, 110 V and 230 V AC /DC
Frequency	0 Hz, 50 Hz or 60 Hz

Slam® Hornet 1 LED, 2 LED, Linear 2 LED

Power	25 W (1 LED), 50 W (2 LED)
Voltage	24 VAC/DC, 42 VAC/DC, 110 VAC/DC or 230 VAC
Frequency	0, 50 Hz, 60 Hz

Construction

Portable luminaire with fluorescent lamps or LED-modules supplied by electronic ballast or control gear. Electronic ballasts, lamp caps and LED-modules are moulded with silicone rubber. The whole assembly, lamps, ballast, LED-modules and control gears together with connecting devices for supply cable has been built into the enclosure made of polycarbonate tube with shock absorbing and dissipative plastic endplates. The luminaire is fitted with permanently connected cable H07RN-F or cable suitable for heavy industrial use. As an option the luminaire can have a through wiring or Ex e d-certified socket and plug. With the socket the allowed ambient temperature range is $-20\text{ °C} \leq T_{\text{amb}} \leq +40\text{ °C}$ or that marked on the socket but not wider than $-20\text{ °C} \leq T_{\text{amb}} \leq +40\text{ °C}$.

Degree of protection

- without Ex-socket:	IP 66
- with Ex-socket:	as marked on the used Ex-certified socket but not higher than IP 66

Drawings and documents:

Slam® Hornet 18 W, 36 W, 2x18 W, 2x36 W

Construction is specified in the list of document CSH 13062012

Slam® Hornet 1 LED, 2 LED, Linear 2 LED

Construction is specified in the list of document CSH LED 13062012

16. Report No. VTT-S-07085-13.

17. Special conditions for safe use

None

18. Essential Health and Safety Requirements

Met by the compliance with the standards: EN 60079-0 (2009), EN 60079-7 (2007), EN 60079-18 (2009), EN 60079-28 (2007), EN 60079-31 (2009)

Certificate history

Issue	Date	Report No.	Comment
-	24.9.2008	VTT-S-08016-08	Prime certificate
1	19.6.2012	VTT-S-04512-12.	Introduction of Group IIC construction with dissipative end plates and LED-units as a light source.
2	14.10.2013	VTT-S-07085-13	Manufacturer's name and type designation of products has been changed

Espoo, 14.10.2013

VTT Expert Services Ltd



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Business Manager



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