

## [1] EC-TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protected System Intended for use  
in Potentially explosive atmospheres  
Directive 94/9/EC

- [3] EC-Type Examination Certificate Number: **Nemko 13ATEX 1544**
- [4] Equipment or Protective System: **Key switch (PTT-unit) type AK6760M**
- [5] Applicant/ Manufacturer: **A-Kabel AS**
- [6] Address: **Nedre Hagaveg 15C, 2150 Årnes, Norway**
- [7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] Nemko AS, notified body number 0470 in accordance with Article 9 of Council Directive 94/9/EC of 23 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 systems 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. 232316
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
**CENELEC EN 60079-0: 2009 & EN 60079-11: 2012**
- [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****Ex ib IIC T4 Gb -20°C ≤ Ta ≤ +40°C**

Oslo, 2013-09-02

**Asle Kaastad**  
Certification Manager, Ex-products

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**[13] Schedule****[14] EC-TYPE EXAMINATION CERTIFICATE No Nemko 13ATEX1544****[15] Description of Equipment or Protective System**

This certificate cover the key switch (PTT-unit) type AK6760M manufactured by A-Kabel AS. The key switch AK6760M is intended for use with the following devices.

Headset 1: AK5850S / AK5850HS and Headset 2: MT72H540P3E-50.

Portable radio unit: Motorola Mototrbo DP4401 series and DP4801 series. Connection via Motorola audio adapter type PMLN6047A. Direct connection to radio is neither possible nor is covered by this investigation / certification.

PTT-unit is investigated based on safety output parameters of radio adaptor which are separately certified by DEKRA EXAM GmbH, Ex certificate 'BVS 12 ATEX E 117 X'. The separately Ex certified adaptor is functioned as a safety barrier in this case.

Any modification for connection between AK6760M and other devices other than the adapter type PMLN6047A is not covered by this certification.

**Type Designations**

AK6760M

**Technical Data**

Ui: 8.4Vdc, Ii: 1.5A, Li: negligible, Ci: 52nF.

Uo: 8.4Vdc, Io: 75mA, Po: 314mW, Lo: 1.5mH, Co: 5µF

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**[16] Report No. 232316**

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**Descriptive Documents**

Title/Description	Name/Number	Rev.	Date	Pages
Marking label	AK6760M Label	1	2013-08-13	1
Assembly (incl. part list)	AK6760M Draw	A	2013-08-13	1
System connection	AK6760M Sys	A	2013-03-06	1
Cable spec	AK6760M Cable spec	A	2013-03-15	1
Potting B085A / B086A	B085A Pott	A	2013-08-09	1
Potting & coating document	B085A	A	2013-08-09	1
Schematics	S086A Schematic	A	2013-08-09	1
Bill of materials (electronics)	B086A Bom	A	2013-08-09	1
Layout	B085A Layout	A	2013-08-09	3

**Certificate History and Associated Nemko Reports**

Issue	Date	Report	Description
0	2013-09-02	232316	Prime certificate and main test report issued.

**[17] Special Conditions for Safe Use**

**[18] Essential Health and Safety Requirements.**

The end configuration of use comprising the investigated Ex device must be evaluated for safety requirements of Directive 94/9/EEC and applicable harmonized standards taken into account the mounting condition and other environmental influences.

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