

[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 14 ATEX 1010X Issue 0

[4] Equipment or Protective System: Sounder & Beacon– SB 125/150

[5] Applicant/ Manufacturer: Moflash Signalling Ltd

[6] Address: Unit 18 Klaxon Industrial Estate, Tyseley
Birmingham B11 2HA,
United Kingdom.

[7] This equipment or protective system and any acceptable variation thereto are 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. D0001083

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2012 (IEC 60079-0:2011) , EN 60079-1:2007 (IEC 60079-1:2007) and
EN 60079-31:2009 (IEC 60079-31:2008)

[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 2GD

Ex d IIC T4~T6 Gb.

Ex tb IIIC T135°C~T85°C IP66

Oslo, 2014-02-12

Asle Kaastad
Certification Manager, Ex-products

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[13] Schedule

[14] EC-TYPE EXAMINATION CERTIFICATE No. Nemko 14 ATEX 1010X Issue 0

[15] Description of Equipment or Protective System

This certificate covers two types of sounder & Beacons (combination units); SB-125 is stainless steel and SB-150 is GRP. These products consist of two different structures; single unit and a combination of several units called wall mounted combination. The single unit product is made up of; Main body, back-cover and front-cover, connected together by a spigot joint (flameproof joint). Furthermore the product has a sounder driver which is screwed into the front-cover by an Ex thread. A sintered disc is press fitted into a slot of this and kept in place by a press fitted ring. A glass dome is installed in the back-cover by using a cemented joint. Inside the enclosures it's installed different PCB, terminals and light sources. In additional a horn arrangement is attached to the front cover to distribute the sound coming out of the sound driver.

The structure of the wall mounted units is based on the same techniques as above but the units are individually (sounder, Beacon, Junction box). To electrically connect the different units together it's installed a connection device (type CT 20) with cemented joint. This is screwed into the different units by using Ex threads (M20* 1,5).

Each individually unit have four optional sizes of cable entries (M20/M25 or 1/2NPT, 3/4NPT).

Designation

Type SB-125/150-1, single unit of sounder and beacon.

Type SB-125/150-(X), wall mounted combination of one sounder and X numbers of beacons.

Type SB-125/150-(X)J, wall mounted combination of one sounder, X numbers of beacons and one junction box.

Type SB-125/150-(X)P, wall mounted combination of one sounder, X numbers of beacons and one pushbottom.

Electrical Ratings:

Beacon / Light, Voltage ≤48 VDC, 100~240V AC(50/60Hz), ≤25W

Alarm Sounder, Voltage ≤48 VDC, 100~240V AC(50/60Hz), ≤20W

Loudspeaker, Voltage ≤ 115 VAC, ≤ 50W

Product	Ambient temperature	Marking
SB 125 / 150	Tamb=-40°C~+70°C	Ex d IIC T4 Gb. Ex tb IIIC T135°C IP66.
	Tamb=-40°C~+60°C	Ex d IIC T5 Gb. Ex tb IIIC T100°C IP66.
	Tamb=-40°C~+55°C	Ex d IIC T6 Gb. Ex tb IIIC T85°C IP66.

[16] Report No. D0001083

Descriptive Documents

Name/Title	Drawing No.	Rev.	Date	Sheets
General Drawing SB 125	55070100000	1.01	13.03.05	1
Dispense Drawing SB 125	55070100001	1.01	13.03.05	1

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Part List SB 125	55070100002	1.01	13.03.05	1
Back Cover BC 125	55050110102	1.01	13.03.05	1
Main body SB 125	55050110101	1.01	13.03.05	1
Front cover SB 125	55050110103	1.01	13.03.05	1
Glass cover	55060170107	1.01	13.03.05	1
CT 20	55020100010	1.01	13.03.05	1
General Drawing SB 125	55070100000 / -NJ / -NP	1.01	13.03.05	3
Disperse Drawing SB 125	55070100001 / -NJ / -NP	1.01	13.03.05	3
Part List SB 125	55070100002/ -NJ / -NP	1.01	13.03.05	3
General Drawing SB 150	55070200000	1.01	13.03.05	1
Dispense Drawing SB 150	55070200001	1.01	13.03.05	1
Part List SB 150	55070200002	1.01	13.03.05	1
Main body SB 150	55050250101	1.01	13.03.05	1
Back cover SB 150	55060250102	1.01	13.03.05	1
Front Cover SB 150	55050250104	1.01	13.03.05	1
Part List SB 150	55070200002-N/ -NJ / - NP	1.01	13.03.05	3
General Drawing SB 150	55070200000-N/ -NJ / -NP	1.01	13.03.05	3
Disperse Drawing	55070200001-N/ -NJ / -NP	1.01	13.03.05	3
Alternative lid screw for 150 serious	55060250401	1.01	13.08.25	1
Alternative lid screw for 150 serious	55060250402	1.01	13.08.25	1
Nameplate Combined sounder & Beacon	M55070010501	1	14.01.08	1

Certificate History and Associated Nemko Reports

Issue	Date	Report	Description
0	2014-02-12	D0001083	Prime Certificate released

Routine Test

A routine pressure test according to EN 60079-1 clause 16 shall be carried out on all enclosures with the following pressures

SB 125- 1.4MPa

SB 150- 1.4MPa

[17] Specific Condition for Use

Repairs of the flameproof joints must be made in compliance with the structural specifications provided by the manufacturer. Repairs must not be made on the basis of values specified in tables 1 and 2 of EN/IEC 60079-1.

[18] Essential Health and Safety Requirements

Not applicable

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