

Type Approval Certificate



This is to certify that the undemoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. **12 926 - 11 HH**

Company **Autronica Fire and Security AS
Haakon VII's Gt. 4
7483 Trondheim, NORWAY**

Product Description **Addressable Fire Alarm Sounder, Strobe and Beacon**

Type **BBR-110, BBR-130, BBR-230, BBR-230/IP, BBQ-130, BBQ-230, BBQ-230/IP, BBL-100, BBL-100/IP**

Environmental Category **C / EMC1**

Technical Data /
Range of Application **The fire alarm sounders / strobes / beacons are connected directly to the fire detection loop and are powered by fire detection loop.
The units are intended for automatic addressing.
Short circuit isolator is an integral part of each device.**

Sounder / Strobe

BBQ-130:

- Configurable sound pattern
- High/low volume setting (93 dB and 80 dB)
- Enclosures Protection IP22

BBQ-230; BBQ-230/IP:

- Configurable sound pattern
- High/low volume setting (103 dB and 90 dB)
- Enclosures Protection IP42 (BBQ-230)
- Enclosures Protection IP54 (BBQ-230/IP)

Test Standard **Guidelines for the Performance of Type Approvals Chapter 2, Edition 2003**

Documents **Test report : No. 2010-3107, TE 220788, TE 243617
Drawings and Documents according to Document list.doc, dated 2010.12.06**

Remarks **None**

Valid until **2016-02-23**

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Type Approval Symbol



File No. **I.A.06**

Hamburg, **2011-02-24**

Germanischer Lloyd

Marco Rinkel

Heinz Scheffler

This certificate is issued on the basis of "Guidelines for the Performance of Type Approvals Part 1, Procedure".

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Sounder

BBR-110:

- Synchronised phased start
- High sound output (86 dB)
- Configurable sound pattern
- Enclosures Protection IP20

BBR-130:

- Configurable sound pattern
- High/low volume setting (93 dB and 80 dB)
- Enclosures Protection IP22

BBR-230; BBR-230/IP:

- Configurable sound pattern
- High/low volume setting (103 dB and 90 dB)
- Enclosures Protection IP42 (BBR-230)
- Enclosures Protection IP54 (BBR-230/IP)

Beacon

BBL-100; BBL-100/IP:

- 2 Candela output
- Enclosures Protection IP32 (BBL-100)
- Enclosures Protection IP66 (BBL-100/IP)

All units are intended for use with the **AutroSafe** and **Autroprime** fire detection systems.

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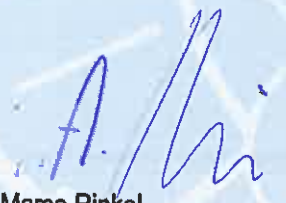
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