



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx NEM 04.0002 issue No.:2

Certificate history:

Status: **Current**

Date of Issue: **2006-07-19**

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Applicant: **Federal Signal Corporation**  
2645 Federal Signal Drive  
University Park, IL 60466-3195  
**United States of America**

Electrical Apparatus: **Loudspeaker**  
*Optional accessory:*

Type of Protection: **Flameproof 'd'**

Marking: IECEx NEM 04.0002  
Ex d IIB T6  
Ex d IIB T6 Ta = 55°C  
Ex d IIB T5 Ta = 70°C

*Approved for issue on behalf of the IECEx  
Certification Body:*

Rolf Hoel

*Position:*

Certification Manager

*Signature:  
(for printed version)*

*Date:*

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**NEMKO**  
**Gaustadelleen 30**  
**Oslo N-0314**  
**Norway**





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Manufacturer: **Federal Signal Corporation**  
2645 Federal Signal Drive  
University Park, IL 60466-3195  
**United States of America**

Additional Manufacturing  
location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

#### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

**IEC 60079-0 : 2000** Electrical apparatus for explosive gas atmospheres - Part 0: General requirements

Edition: 3.1

**IEC 60079-1 : 2003** Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosure 'd'

Edition: 5

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

#### TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

IECEx ATR:  
**NO/NEM/04/30838**

File Reference:  
**30838**



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

Type designation: 120 series Exd. Loudspeaker with transformer. The loudspeaker has pressed metal wire element of stainless steel. The loudspeaker can be equipped with ES4 sounder (PCB) or ES5 powered loudspeaker (PCB).

### CONDITIONS OF CERTIFICATION: NO



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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

This version is issued to confirm that the stated marking IECEx NEM 04.0002 on page 1 shall be the following: IECEx NEM 04.0002. The type designation is listed in the schedule. Issue No.: 2 covers new Applicant and Manufacturers name and address.