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**IECEX certificate:**

EN

**IECEX LCI 08.0041X**

**for CA 901**

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**Meggitt SA**  
Route de Moncor 4  
PO Box 1616  
CH - 1701 Fribourg  
Switzerland

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**IECEx Certificate of Conformity**



Certificate No.: IECEx LCI 08.0041X

Date of Issue: 2014-07-18

Issue No.: 3

Page 2 of 4

Manufacturer: **Meggitt SA**  
 Route de Moncor 4  
 1752 Villars-sur-Glâne  
 Switzerland

Additional Manufacturing location (s):

**Meggitt SA**  
 Route de Moncor 4  
 1752 Villars-sur-Glâne  
 Switzerland

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 : 2011** Explosive atmospheres - Part 0: General requirements  
 Edition: 6.0
- IEC 60079-11 : 2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
 Edition: 6.0

*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*

Test Report: FR/LCI/EXTR08.0048/03

Quality Assessment Report: FR/LCI/QAR06.0006/07

**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 LCI 08.0041X Issue No.: 3

Status: **Current** Page 1 of 4

Date of Issue: 2014-07-18

Applicant: **Meggitt SA**  
 Route de Moncor 4  
 1752 Villars-sur-Glâne  
 Switzerland

Electrical Apparatus: **Acceleration transducer type PNR 144-901-000-XXX**

Optional accessory:

Type of Protection: **ia**

Marking: **Vibro-meter or MEGGITT or MFR S3960  
 PNR 144-901-000-XXX  
 DMF mnyyyy  
 Ex Ia IIC T6 to 710°C Ga  
 IECEx LCI 08.0041 X  
 UI = ..., II = ..., PI = ..., CI = ..., LI = ... (completed with the electrical parameters)**

Approved for issue on behalf of the IECEx: **Julien GAUTHIER**

Certification Body: **Julien GAUTHIER**  
 Certification Officer

Signature: *(for printed version)*

*(Signature)*  
 2014-07-18


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.



Certificate issued by:  
 Laboratoire Central des Industries Electriques (LCIE)  
 39 Avenue du General Leclerc  
 FR-92260 Fontenay-aux-Roses  
 France

Documents relative to LCIE certification activities (Certificates, QARs, EXTRs) can be registered under the references "LCI" or "LCIE".

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|  <h2 style="text-align: center;">IECEx Certificate<br/>of Conformity</h2>   | <p>Certificate No.: IECEx LCI 08.0041X<br/>Date of Issue: 2014-07-18</p> <p>Issue No.: 3<br/>Page 4 of 4</p> |
| <p><b>DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):</b></p> <p><b>Issue 1 :</b><br/>Update of the manufacturer documents, change legal entity name and address of applicant, modifications of registered trade mark</p> <p><b>Issue 2 :</b><br/>Normative update according to standard IEC 60079-0 Ed 5</p> <p><b>Issue 3 :</b><br/>Normative update according to standards IEC 60079-0:2011 Ed 6.0 and IEC 60079-11:2011 Ed 6.0<br/>Modification of the sensor (the maximum sensor capacitance is 200pF instead of 80pF)<br/>Modification of the following electrical parameter : Sensor head : Ci = 200pF<br/>Update of the technical file</p> |  |

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|  <h2 style="text-align: center;">IECEx Certificate<br/>of Conformity</h2>   | <p>Certificate No.: IECEx LCI 08.0041X<br/>Date of Issue: 2014-07-18</p> <p>Issue No.: 3<br/>Page 3 of 4</p> |
| <p><b>Schedule</b></p> <p><b>EQUIPMENT:</b><br/><i>Equipment and systems covered by this certificate are as follows:</i></p> <p><b>DESCRIPTION OF THE EQUIPMENT:</b><br/>The sensor is an electro-mechanical transducer that supplies to its terminal an electrical charge proportional to the acceleration which is submitted. This acceleration is transmitted to the sensible element by the intermediate of a seismic mass. It operates with a piezo-electrical built in compression.<br/>Type designation : 144-901-000-XXX ; XXX depend of the connector type and cable length (X = 0 to 9).</p> <p><b>TEMPERATURE CLASSIFICATION:</b><br/>T6 up to Ta =+80°C<br/>T5 up to Ta =+95°C<br/>T4 up to Ta =+130°C<br/>T3 up to Ta =+195°C<br/>T2 up to Ta =+290°C<br/>T1 up to Ta =+440°C<br/>Above Ta = +440°C and up to +700°C: T°C (*=Ta+10°C)</p>                       |  |
| <p><b>CONDITIONS OF CERTIFICATION: YES as shown below:</b></p> <p><b>Specific parameters of the mode of protection 'la':</b><br/>Sensor head : Ci = 200pF, LI = 0<br/>Integral cable : Ci = 200pF/m, LI = 0<br/>Linear power supply : UI ≤ 28V, II ≤ 100mA, PI ≤ 0,7W<br/>Non linear power supply : UI ≤ 28V, II ≤ 25mA, PI ≤ 0,7W</p> <p><b>Special condition for safe use:</b><br/>- The sensor shall be only connected to an intrinsically safe certified equipment. This combination shall be compatible as regard the intrinsic safety rules (Specific parameters of the mode of protection 'la').<br/>- Operating ambient temperature:<br/>sensor and cable: -196°C to +700°C<br/>connector: -65°C to +150°C; connector M632 3689/1020 or equivalent<br/>-54°C to +260°C; standard tempe rature VNI connector<br/>-196°C to +700°C; high temperat ure VM connector</p> |  |