



# 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 FMG 17.0031X

Issue No: 0

Certificate history:

[Issue No. 0 \(2018-06-06\)](#)

Status: **Current**

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Date of Issue: **2018-06-06**

Applicant: **ABB Inc - BU Measurement Products**  
125 East County Line Rd  
Warminster PA 18974  
**United States of America**

Equipment: **LMS200 Magnetic Level Gauge Switch**

*Optional accessory:*

Type of Protection: **ia, d, tb**

Marking:

Ex d IIC Gb T6...T1 -40 °C ≤ Ta ≤ 70 °C; IP66 / 67

Ex tb IIIC Db T85 °C...T450 °C -40 °C ≤ Ta ≤ 70 °C; IP66 / 67

Ex ia IIC Ga T6...T5 -40 °C ≤ Ta ≤ 70 °C; IP66 / 67

Ex ia IIIC Da T85 °C...T450 °C -40 °C ≤ Ta ≤ 70 °C; IP66 / 67

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

J. E. Marquedant

*Position:*

VP, Manager - Electrical Systems

*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](#).

Certificate issued by:

**FM Approvals LLC**  
**1151 Boston-Providence Turnpike**  
**Norwood, MA 02062**  
**United States of America**





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Manufacturer: **ABB Inc - BU Measurement Products**  
125 East County Line Rd  
Warminster PA 18974  
**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 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:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2014-06</b> Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-11 : 2011</b> Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-31 : 2013</b> Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*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:

[US/FMG/ExTR17.0030/00](#)

Quality Assessment Report:

[NO/PRE/QAR17.0003/01](#)



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## Schedule

### EQUIPMENT:

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

#### **LMS200.a.b.c.d**

a = Approval: E6, M1

b = Mounting: A1 or A2

c = Insulation: Y0 or P1

d = Electrical Connection Size: A1, A2, A3, C1, C2, C3, or C4

### SPECIFIC CONDITIONS OF USE: YES as shown below:

1. *When the manufacturer of the equipment has not identified the type of protection on the label, the user shall, on installation, mark the label with the type of protection used.*
2. *The non-metallic label may store an electrostatic charge and become a source of ignition in Group III environments. Clean with a damp cloth.*
3. *Install in accordance with ABB drawing number 3KXL130200G0122.*
4. *The relationship between the temperature class, the maximum surface temperature, the ambient temperature and the process temperature is as follows:*

#### **For Gases and Vapours**

**(for Ex ia)**

Maximum Process Temperature	Temperature Class
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75 °C	T6
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90 °C	T5
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#### **For Gases and Vapours**

**(for Ex db)**

Maximum Process Temperature	Temperature Class
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75 °C	T6
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90 °C	T5
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125 °C	T4
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190 °C	T3
290 °C	T2
416 °C	T1

## For Dusts and Fibres

(for Ex tb)

Maximum Process Temperature	Temperature Class
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80 °C	T85 °C
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95 °C	T100 °C
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130 °C	T135 °C
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195 °C	T200 °C
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295 °C	T305 °C
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416 °C	T426 °C
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