



# 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 ETL 17.0057X

Issue No: 0

Certificate history:

[Issue No. 0 \(2018-08-28\)](#)

Status: **Current**

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Date of Issue: **2018-08-28**

Applicant: **ABB Inc.**  
125 East County Line Rd; Warminster, PA 18974  
**United States of America**

Equipment: **MS41 Magnetic Level Gauge Switch**

*Optional accessory:*

Type of Protection: **Intrinsic safety "ia"**

Marking:

Ex ia IIC T\* Ga

Ex ia IIIC T\* Da

-50°C ≤ Ta ≤ +76°C

IECEX ETL 17.0057X

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

Kevin J. Wolf

*Position:*

Certification officer

*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:

**Intertek**  
165 Main Street  
Cortland NY 13045-2995  
United States of America





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Manufacturer: **ABB Inc.**  
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:

**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:

[US/ETL/ExTR18.0035/00](#)

### Quality Assessment Report:

[GB/FME/QAR10.0007/00](#)

[GB/FME/QAR10.0007/01](#)

[GB/FME/QAR10.0007/02](#)

[GB/FME/QAR10.0007/03](#)

[GB/FME/QAR10.0007/04](#)

[GB/FME/QAR10.0007/05](#)

[GB/FME/QAR10.0007/06](#)

[GB/FME/QAR10.0007/07](#)

[GB/FME/QAR10.0007/08](#)

[GB/FME/QAR10.0007/09](#)



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## Schedule

### EQUIPMENT:

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

The product is a series of Magnetically Actuated Electric Switch Assemblies using Intrinsic Safety, "Ex ia", protection (Diode Safety Barrier Supply). The product incorporates two (2) DPDT Switch Contact Blocks: HONEYWELL V7-2B17D8-201. The same product/construction also has certification as Ex db IIC and Ex tb IIIC. Application for Zone 0 and/or Zone 20 when supplied by Diode Safety Barriers.

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

Threaded Fittings Must Maintain An Ingress Rating Of IP5X Or Better Per IEC/EN 60079-0 In Dust Atmospheres.



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**Additional information:**

**Annex:**

[Annex 1 IECEx ETL 17.0057X.pdf](#)

# IECEx Certificate of Conformity

<b>Certificate No:</b>	IECEx ETL 17.0057X	<b>Issue No.</b> 0
<b>Annex No.</b> 1		

## General product information:

The product is a series of Magnetically Actuated Electric Switch Assemblies using Intrinsic Safety, "Ex ia", protection (Diode Safety Barrier Supply). The product incorporates two (2) DPDT Switch Contact Blocks: HONEYWELL V7-2B17D8-201. The same product/construction also has certification as Ex db IIC and Ex tb IIIC. Application for Zone 0 and/or Zone 20 when supplied by Diode Safety Barriers.

### Entity Parameters:

Ui (V)	Ii (mA)	Pi (mW)
7.2	1470	1000
15.75	723	1000
20	267	1000
25.4	136	863
28	120	840
45	27	303

## Technical Documents

Title:	Drawing No.:	Rev. Level:	Date:
MS41 SWITCH CERTIFICATION DRAWING AND OPTIONS	MS41-0062-1	E	02/05/16
*MS41 ATEX/IECEx INTRINSIC SAFETY NAMEPLATE	TAG0033	G	08/16/18
*MS41 HOOK-UP WIRE SPECIFICATION	MDS0022	NC	08/08/18
*MS41 ATEX & IECEx INTRINSICALLY SAFE INSTALLATION DRAWING	MS41-0923-2	B	07/12/18
*ABB MEASUREMENT & ANALYTICS   OPERATING INSTRUCTION	OI/MS41-EN	E	7.2018
MS41			
Magnetic level gauge switch			

*Note: An \* is included before the title of documents that are new or revised.*

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3933 US Route 11 South  
Cortland NY 13045-2995  
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