



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx PRE 20.0071X** Page 1 of 3 [Certificate history:](#)
Status: **Current** Issue No: 0
Date of Issue: 2020-10-27
Applicant: **ABB Automation GmbH**
Stierstädter Str. 5
60488 Frankfurt
Germany
Equipment: **Laser Analyzer Module LS25 Ex, Laser Analyzer Module LS25 Compact Ex**
Optional accessory:
Type of Protection: **Ex nA,nC,tc, op is**
Marking: Ex nA nC [op is Ga] IIC T4 Gc
Ex tc [op is Da] IIIC T100°C Dc

Approved for issue on behalf of the IECEx
Certification Body:

Bjørn Spongsveen

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 www.iecex.com or use of this QR Code.



Certificate issued by:

DNV GL Presafe AS
Veritasveien 3
1363 Høvik
Norway





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Page 2 of 3

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Manufacturer: **ABB Automation GmbH**
Stierstädter Str. 5
60488 Frankfurt
Germany

Additional
manufacturing
locations:

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 equipment 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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-15:2010 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:4

IEC 60079-28:2015 Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
Edition:2

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

This Certificate **does not** indicate compliance with 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:

[NO/PRE/ExTR20.0073/00](#)

Quality Assessment Report:

[DE/BVS/QAR09.0006/09](#)



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Certificate No.: **IECEx PRE 20.0071X**

Page 3 of 3

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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Laser Analyser Module LS25 Ex & Laser Analyser Module LS25 Compact Ex works based on transmitting infrared laser light from a transmitter unit on one side of the stack to a receiver unit in the diametrically opposite side of the stack. The measurement principle uses infrared single-line absorption spectroscopy.

Electrical Data

U=18 to 32 VDC, 20W

Degrees of protection (IP Code)

IP66 , according EN 60079-0

Ambient temperature:

$-20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$

SPECIFIC CONDITIONS OF USE: YES as shown below:

Potential risk of electrostatic discharge. See instructions for guidance to minimize risk of electrostatic discharge.