



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 BVS 14.0096** Page 1 of 5 Certificate history:
Status: **Current** Issue No: 1 [Issue 0 \(2014-09-15\)](#)
Date of Issue: 2022-12-13
Applicant: **Endress+Hauser Conducta GmbH+Co. KG**
Dieselstrasse 24
Gerlingen 70839
Germany
Equipment: **CommuBox type FXA291**
Optional accessory:
Type of Protection: **Equipment protection by intrinsic safety "i"**
Marking: [Ex ia Ga] IIC
[Ex ia Da] III C

Approved for issue on behalf of the IECEx
Certification Body:

Deniz Pezzutto

Position:

Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

2022-12-19

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:

DEKRA Testing and Certification GmbH
Certification Body
Dinnendahlstrasse 9
44809 Bochum
Germany

 **DEKRA**
On the safe side.



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Manufacturer: **Endress+Hauser Conducta GmbH+Co. KG**
Dieselstrasse 24
Gerlingen 70839
Germany

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 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

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:

[DE/BVS/ExTR14.0094/01](#)

Quality Assessment Report:

[DE/BVS/QAR06.0005/13](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Subject and Type

CommuBox type FXA291

Description

The CommuBox type FXA291 is used for transmission of data and for connection to the CDI-service interface (Common Data Interface) of Endress+Hauser devices.

The CommuBox type FXA291 is located outside the hazardous area; the intrinsically safe data circuit can be led in the hazardous area. The connection of the intrinsically safe data circuit to the CDI-service interface of corresponding equipment can be assessed separately on the basis of the parameters listed below.

SPECIFIC CONDITIONS OF USE: NO



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Equipment (continued):

Parameters

1.	Not intrinsically safe data circuit, connection via permanently connected cable (L < 5 m) with USB-connector			
	Maximum voltage	U_m	AC	260 V
	Intrinsically safe data circuit, connection via permanently connected cable (L < 0.6 m) with a connector in the type of protection Ex ia IIC.			
	Maximum output voltage	U_o	DC	7 V
	Maximum output current	I_o		597 mA
	Maximum output power	P_o		583 mW
	Maximum external capacitance	C_o		10 μ F
2	Maximum external inductance	L_o		60 μ H
	Maximum internal capacitance	C_i		4.1 μ F
	Maximum internal inductance	L_i		0.4 μ H

The connection of a voltage of U_m until 260 VAC not affect the intrinsic safety relevant components, therefore this circuit can be connected to not intrinsically safe interfaces outside of the hazardous area.

3 Ambient temperature range $20\text{ }^{\circ}\text{C} \leq T_a \leq +60\text{ }^{\circ}\text{C}$



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- The CommuBox type FXA291 was tested in accordance to the standards listed on page 1.
- The electronics of the CommuBox type FXA291 was modified.
- The Applicant's / Manufacturer's name has changed to Endress+Hauser Conducta GmbH+Co. KG