

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 N	lo.:
Status:	

IECEx BVS 20.0037

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Certificate history:

Current

Issue No: 0

Date of Issue:

2020-06-24

Applicant:

Endress+Hauser SE+Co. KG

Hauptstraße 1 79689 Maulburg Germany

Equipment:

Point Level switch NIVOTESTER type FTC325-H***1

Optional accessory:

Type of Protection:

Intrinsic Safety "i"

Marking:

[Ex ia Ga] IIC Ex ia Daj IIIC

Approved for issue on behalf of the IECEx Certification Body:

Jörg Koch

Position:

Head of Certification Body

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:

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



On the safe side.



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Date of issue:

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Manufacturer:

Endress+Hauser SE+Co. KG

Hauptstraße 1 79689 Maulburg 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

Edition:7.0

Explosive atmospheres - Part 0: Equipment - General requirements

Edition:6.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

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/ExTR20.0034/00

Quality Assessment Report:

DE/TUN/QAR06.0003/08



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Point Level switch NIVOTESTER

Type

FTC325-H***1

abcd

a, c = non-ex-relevant

b = A or B - power supply (see ratings)

d = 1, optional, non-ex-relevant

The point level switch NIVOTESTER type FTC325-H***1, which has to be installed outside the hazardous area, is used in connection with a sensor for the control of levels and for output of limit signals.

Ratings:

See Annex

SPECIFIC CONDITIONS OF USE: NO

Annex:

BVS_20_0037_E+H_Annex.pdf



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Ratings:

1	Power supply of	circuit, terminals 1 (L1/L+) and 2 (N/	L-)				
	Voltage	type FTC 325-H*A*1 type FTC 325-H*B*1		AC AC DC		85 253 20 30 20 60	V V V
	Maximum volta	nge	U_{m}	AC		253	V
2	Relay circuits, terminals 22, 23, 24 and 15 - 16						
2		nt er at cos φ ≤ 0.7	≤ 500	Α		DC 40 2 ≤ 80	V A W
3	Maximum outp Maximum outp Maximum outp Minimum interr Trapezoid outp	ut current ut power nal resistance ut characteristic nal capacitance	U _o U _o l _o l _o P _o R _i C _i		DC	13.9 99 874 391 138 0.13	V mA mW Ω
	Circuits level	of protection Ex ia IIC					
	Maximum exter Maximum exter	rnal capacitance rnal inductance	C _o L _o			600 3.5	nF mH
	If inductances a	and capacitances are concentrated	the following	values apply:			
		rnal capacitance tternal inductance	C。 L。			260 0.35	nF mH
	Maximum exter	rnal capacitance tternal inductance	C。 L。			180 0.85	nF mH
	Circuits level of protection Ex ib IIC						
	Maximum exter Maximum exter	nal capacitance nal inductance	Co Lo			600 3.5	nF mH
	Circuits level of protection Ex ia IIB or Ex ia IIIC						
	Maximum exter Maximum exter		C。 L。			4.56 14.3	μF mH
	If inductances and capacitances are concentrated the following values apply:						
		rnal capacitance kternal inductance	C _o L _o			2.06 0.85	μF mH
	Maximum exter	nal capacitance kternal inductance	C。 L。			1.06 4.85	μF mH
	Circuits level of	of protection Ex ib IIB					
	Maximum exter Maximum exter	nal capacitance nal inductance	C _o L _o			4.56 14.3	μF mH
4	Ambient temper	rature range	Ta				
	Stand alone mo Row mounting	punting	-20 °C up to + -20 °C up to +				