



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 IBE 17.0049** Page 1 of 4 [Certificate history:](#)
Status: **Current** Issue No: 1 **Issue 0 (2019-01-03)**
Date of Issue: 2020-11-26
Applicant: **Hans Turck GmbH**
Witzlebenstraße 7
45472 Mülheim an der Ruhr
Germany
Equipment: **Flow Sensor FP10...-NAEX-...**
Optional accessory:
Type of Protection: **intrinsic safety "i"**
Marking: **Ex ia IIC T6... T4 Ga**
Ex ia IIIC T101°C... T136°C Da
-20 °C to +80 °C T4/ T136 °C
-20 °C to +60 °C T5/ T116 °C
-20 °C to +45 °C T6/ T101 °C

Approved for issue on behalf of the IECEx
Certification Body:

Alexander Henker

Position:

Deputy Head of department Certification Body

Signature:
(for printed version)

Date:

2020-11-26

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:

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlenweg 7
09599 Freiberg
Germany





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Manufacturer: **Turck Beierfeld GmbH**
Am Bockwald 2
08344 Grünhain-Beierfeld
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 60079-11:2011 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 Reports:

[DE/IBE/ExTR17.0041/00](#)

[DE/IBE/ExTR17.0041/01](#)

Quality Assessment Report:

[DE/PTB/QAR06.0013/05](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Flow sensors FP10...-NAEX-... is typically installed in pipes and serves for monitoring the flow and temperature measurement of liquid and gaseous media.

As intrinsically safe equipment, it is intended for use in explosion group IIC or IIIC as a device with EPL Ga or Da.

Technical Data

Temperature range: -20 °C to +80 °C T4/ T136 °C
-20 °C to +60 °C T5/ T116 °C
-20 °C to +45 °C T6/ T101 °C

supply circuit in type of protection Ex ia

U_i 7.2 V
 I_i 60 mA
 P_i 689 mW
 C_i, L_i negligible

data circuit in type of protection Ex ia

U_i 7.0 V
 I_i 70 mA
 C_i, L_i negligible

plus line capacitances 200 pF/m and line inductances 1 μ H/m+

Type Key

FP10...-NAEX-...

F	Flow
P	Probe
1	Monitoring
0	Process connection via adapter
.	Display
.	Pressure
.	process connection
NAEX	Electric behaviour
...	Electric Connection

SPECIFIC CONDITIONS OF USE: NO



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Minor design and material changes