



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 EPS 17.0009X**

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Certificate history:

Status: **Current**

Issue No: 3

Issue 2 (2021-05-10)

Issue 1 (2020-04-21)

Issue 0 (2017-12-07)

Date of Issue: **2024-04-15**

Applicant: **pi safety components GmbH & Co. KG**
Muehlenweg 2
Teuschnitz 96358
Germany

Equipment: **Actuator Type QT.Ex-M... and QT.Ex-M...GEN.2; Sensor Type FT.Ex-... and FT.Ex-...GEN.2**

Optional accessory:

Type of Protection: **db, eb, mb, tb, h, ib, ia**

Marking:

Actuator Type QT.Ex-M...:

Ex db eb ib mb [ia Ga] IIC T4 Gb
Ex ib tb [ia Da] IIIC T130°C Db
Ex h IIC T4 Gb
Ex h IIIC T130°C Db

Sensor Type FT.Ex-...:

Ex ia IIC T6...T1 Ga/Gb
Ex ia IIIC T80°C...T130°C Da/Db

Actuator Type QT.Ex-M...GEN.2:

Ex db eb mb IIC T4 Gb
Ex tb IIIC T130°C Db
Ex h IIC T4 Gb
Ex h IIIC T130°C Db

Sensor Type FT.Ex-...GEN.2:

Ex mb IIC T6...T1 Gb
Ex mb IIIC T80°C...T130°C Db

Approved for issue on behalf of the IECEx
Certification Body:

Position:

Signature:
(for printed version)

Date:
(for printed version)



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:

Bureau Veritas Consumer Products Services Germany GmbH
Businesspark A96
86842 Türkheim
Germany





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Manufacturer: **pi safety components GmbH & Co. KG**
Muehlenweg 2
Teuschnitz 96358
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 60079-1:2014 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-26:2014 Explosive atmospheres – Part 26: Equipment with Equipment Protection Level (EPL) Ga
Edition:3.0

IEC 60079-31:2022 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

ISO 80079-36:2016 Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres - Basic methods and requirements
Edition:1.0

ISO 80079-37:2016 Explosive atmospheres - Part 37: Non-electrical equipment for explosive atmospheres - Non electrical type of protection constructional safety "c", control of ignition source "b", liquid immersion "k"
Edition:1.0

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/EPS/ExTR17.0062/03](#)

Quality Assessment Report:

[DE/EPS/QAR14.0005/09](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The actuator type QT.Ex-M... resp. QT.Ex-M...GEN.2 can be installed in areas with potentially explosive atmospheres. If the actuator is controlled, it performs a 90° rotary movement and opens/closes (fire protection) dampers and fittings. An optional spring is used as emergency reset function to move the system in safe position. The actuator QT.Ex-M... resp. QT.Ex-M...GEN.2 contains an integrated junction box.

The actuator QT.Ex-M...GEN.2 provides an optional interface to connect the thermal sensor FT.Ex-...GEN.2, which complies to type of protection "mb".

The actuator QT.Ex-M... provides an intrinsically safe interface with M12 plug/socket available to connect the thermal sensor FT.Ex-...

The non-electrical parts also meet the explosion-proof requirements and the housing is part of the explosion protection.

Ambient temperature range and electrical data: refer to attachment.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Maximal ambient temperature: refer to attachment.

The enclosure of the actuator QT.Ex-M... resp. QT.Ex-M...GEN.2 shall never be opened while circuits are alive.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- company name changed
- addition of the ex-i protection, which initially were included (rev. 1) and had been remove with rev. 2
- no changes/retesting of type of protection "h", "m", and "d", only transfer to latest ExTR blanks
- update to IEC 60079-31 Ed. 3.0
- minor technical changes in the i-circuits

Annex:

[Petz_17TH0220_QT-Ex Stellantrieb_IECEX Attachment.pdf](#)

Annex to: IECEx EPS 17.0009X Issue No. 3

Applicant: pi safety components GmbH & Co. KG

Apparatus: Actuator QT.Ex-M... and QT.Ex-M...GEN.2
Sensor FT.Ex-... and FT.Ex-...GEN.2

EQUIPMENT:

Electrical data:

Actuator (QT.Ex-M..., QT.Ex-M...GEN.2):

Supply (terminals 1, 2, 3, 4)	20-70 V _{AC/DC} , U _m = 90 V / 3.15 A (Type ...SL) 85-250 V _{AC} , U _m = 250 V / 1 A (Type ...SH)
Data connection of internal position indication switch (terminals 5, 6, 7)	U ≤ 250 V I ≤ 1 A P ≤ 10 W
Analogue output (terminals 8, 9, 10, 11, 12)	Signal = 0-10 V / 0-20 mA U _m = 30 V / 30 mA
Intrinsic safe sensor interface	U _o = 4.2 V, I _o = 4.3 mA, P _o = 4.5 mW trapezoidal characteristic L _i , C _i : negligible

Sensor (FT.Ex-...):

U_i = 10 V, I_i = 10 mA, P_i = 10 mW
L_i, C_i: negligible

SPECIFIC CONDITIONS OF USE:

Maximum ambient temperature ranges:

Actuator (QT.Ex-M..., QT.Ex-M...GEN.2)	-40 °C to +70 °C
Sensor (FT.Ex-..., FT.Ex-...GEN.2)	T1-T4: -40 °C to +125 °C T5: -40 °C to +90 °C T6: -40 °C to +75 °C

The enclosure of the actuator QT.Ex-... resp. QT.Ex-...GEN.2 shall never be opened while circuits are alive.