



**BUREAU
VERITAS**



EU - Type Examination Certificate

- (1)
- (2) Equipment and protective systems intended for use in potentially explosive atmospheres – **Directive 2014/34/EU**
- (3) EU - Type Examination Certificate Number

EPS 17 ATEX 1 020 X

Revision 3

- (4) Equipment: Actuator Type QT.Ex-M... and QT.Ex-M...GEN.2
Sensor Type FT.Ex-... and FT.Ex-...GEN.2
- (5) Manufacturer: pi safety components GmbH & Co. KG
- (6) Address: Muehlenweg 2
96358 Teuschnitz
Germany
- (7) This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documentation therein referred to.
- (8) Bureau Veritas Consumer Products Services Germany GmbH, notified body No. 2004 in accordance with Article 21 given in the Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, certifies that this equipment has been found to comply with the essential health and safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive. The examination and test results are recorded in the confidential documentation under the reference number 17TH0220.
- (9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN IEC 60079-0:2018

EN 60079-1:2014

**EN 60079-7:2015
EN IEC 60079-7:2015/A1:2018**

EN 60079-11:2012

**EN 60079-18:2015
EN 60079-18:2015/A1:2017**

EN 60079-26:2015

IEC 60079-31:2022

EN ISO 80079-36:2016

EN ISO 80079-37:2016

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the annex to this certificate.
- (11) This EU - Type Examination Certificate relates only to the design and construction of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.
- (12) The marking of the equipment shall include the following:

marking refer to description see annex



Certification department of explosion protection

Tuerkheim, 2024-04-15

Ulrich Feike



Certificates without signature and seal are void. This certificate is allowed to be distributed only if not modified. Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH.



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(13)

Annex

(14) **EU - Type Examination Certificate EPS 17 ATEX 1 020 X**

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(15) Description of equipment:

The marking of the equipment shall include the following:

	QT.Ex-M...		QT.Ex-M...GEN.2
	II 2(1)G Ex db eb ib mb [ia Ga] IIC T4 Gb		II 2G Ex db eb mb IIC T4 Gb
	II 2(1)D Ex ib tb [ia Da] IIIC T130°C Db		II 2D Ex tb IIIC T130°C Db
	II 2G Ex h IIC T4 Gb		II 2G Ex h IIC T4 Gb
	II 2D Ex h IIIC T130°C Db		II 2D Ex h IIIC T130°C Db
	FT.Ex-...		FT.Ex-...GEN.2
	II 1/2G Ex ia IIC T6...T1 Ga/Gb		II 2G Ex mb IIC T6...T1 Gb
	II 1/2D Ex ia IIIC T80°C...T130°C Da/Db		II 2D Ex mb IIIC T80°C...T130°C Db

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.

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



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- (16) Reference number: 17TH0220
- (17) Special conditions for safe 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.

- (18) Essential health and safety requirements:

Met by compliance with standards.



Certification department of explosion protection

Tuerkheim, 2024-04-15