



(1) **EU-TYPE EXAMINATION CERTIFICATE**
(Translation)

(2) Equipment or Protective Systems Intended for Use in
Potentially Explosive Atmospheres - **Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number:

PTB 04 ATEX 1064 X

Issue: 1

(4) Product: Explosion-proof Temperature Switch KTE-d type 27-6B*1-5****/****/****

(5) Manufacturer: BARTEC GmbH

(6) Address: Max-Eyth-Straße 16, 97980 Bad Mergentheim, Germany

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential Test Report PTB Ex 21-11108.

(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 60079-31:2014

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:

 **II 2 G Ex db IIC T6...T3 Gb**

 **II 2 D Ex tb IIIC T85°C...T200°C Db**

Konformitätsbewertungsstelle, Sektor Explosionsschutz
On behalf of PTB:

Braunschweig, October 11, 2021


Dr.-Ing. D. Markus
Direktor und Professor



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EU-Type Examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.

(13)

SCHEDULE

(14) **EU-Type Examination Certificate Number PTB 04 ATEX 1064 X, Issue: 1**

(15) Description of Product

The KTE-d type 27-6B* is an explosion-proof thermostat, designed as temperature switch, failure alarm, thermal link or contact (High/Low). When connected to an electric heater, it can regulate the temperature in a housing to the pre-set, nominal set-point. The KTE-d type 27-6B* as an alarm switches on when the temperature is above the set point and switches off below the set point. The thermostat can be used in areas where explosive gas/air or dust/air mixtures can occasionally be expected. Typical areas of application are frost protection, condensation protection and temperature maintenance.

Technical Data

Rated voltage	max. 250 V / 400 V
Permitted operating voltage	max. 275 V / 400 V
Rated current	max. 10 A
Rated power output	max. 700 W
Ambient temperature	-60 °C bis +60 °C
Max. permitted operating temperature	-60 °C bis +180 °C *

* Due consideration being given to the maximum ambient temperature, the self-heating rate and, if required, the thermal conduction.

Provided the marking and breaking capacities defined in the relevant regulations are met, rated values other than those specified are acceptable and will be defined by the manufacturer on the basis of the operating mode, utilisation category, etc.

SCHEDULE TO EU-TYPE EXAMINATION CERTIFICATE PTB 04 ATEX 1064 X, Issue: 1

Nomenclature

27	-	6	B	*	1	-	5	*	*	*	/	*	*	*	*	/	*	*	*	*
A		B	C	D	E		F	G	H	I		J	K	L	M		N	O	P	R

A-C) Heaters and whose parts

27-6B = Cable thermostat, temperature fuse, -probe

D) Function

1 = Bimetal thermostat

4 = temperature fuse

7 = Bimetal thermostat with temperature fuse

8 = temperature fuse with PT-100 probe

E) Design

1 = Explosion protection

F) Box

5 = Aluminium box

G) Connection

2 = Single-sided cable sleeve(with mounting plate)

4 = Double-sided cable sleeve

J) Temperature set point

A-Z e.g. D = 20 °C

K) Release temperature of the temperature fuse

A-Z e.g. D = 93 °C

H – I,

L - R) Number or letter for characteristics without influence on the explosion protection

(16) Test Report PTB Ex 21-11108

(17) Specific conditions of use

1. Regarding connection cable: The operating instructions shall inform the user of any special conditions for installation and operation, and the user shall comply with these conditions.
2. For use in the explosive dust atmosphere, the relevant requirements of IEC 60079-14, IEC 60079-17 and IEC 60079-19 shall be complied with.

SCHEDULE TO EU-TYPE EXAMINATION CERTIFICATE PTB 04 ATEX 1064 X, Issue: 1

(18) Essential health and safety requirements

Met by compliance with the aforementioned standards.

According to Article 41 of Directive 2014/34/EU, EC-type examination certificates which have been issued according to Directive 94/9/EC prior to the date of coming into force of Directive 2014/34/EU (April 20, 2016) may be considered as if they were issued already in compliance with Directive 2014/34/EU. By permission of the European Commission supplements to such EC-type examination certificates and new issues of such certificates may continue to hold the original certificate number issued before April 20, 2016.

Konformitätsbewertungsstelle, Sektor Explosionsschutz
On behalf of PTB:

Braunschweig, October 11, 2021



Dr.-Ing. D. Markus
Direktor und Professor

