



(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 03 ATEX 2169 X

Issue: 01

(4) Product: Cut-off relay board module Type 17-9955-0***/*

(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 20-20031.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0:2018; EN 60079-11:2012

(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 (1) G [Ex ia Ga] IIC or II (1) D [Ex ia Da] IIIC**

Konformitätsbewertungsstelle, Sektor Explosionsschutz

Braunschweig, October 14, 2020

On behalf of PTB:


Dr.-Ing. F. Lienesch
Direktor und Professor





SCHEDULE

(13)

(14) **EU-Type Examination Certificate Number PTB 03 ATEX 2169 X, Issue: 01**

(15) Description of Product

The explosion protected cut-off relay board module Type 17-9955-0***/* is used for the galvanic isolation of intrinsically safe circuits, which are led into dust or gas explosion endangered areas and non-intrinsically safe circuits. The coil circuits or contact circuits can be either intrinsically safe or non-intrinsically safe circuits. For the contact circuits either intrinsically safe or non-intrinsically safe circuits are connected.

The isolating relay-card-module is installed outside the hazardous area.

The ambient temperature range is -25 °C ... 70 °C.

Electrical data:

Coil circuit:

Intrinsically safe application

in type of protection Intrinsic Safety Ex ia IIC or Ex ia IIIC
 For connection to an intrinsically safe circuit.

Maximum values:

$U_i = 30 \text{ V}$

$I_i = 120 \text{ mA}$

$P_i = 1 \text{ W}$

The effective internal inductances and capacities are negligible.

Non-intrinsically safe application:

Excitation voltage 12 ... 48 V DC (depending on coil)
 Maximum excitation power 1 W

Contact circuit(s): For connection to certified intrinsically safe circuits Ex ia IIC or Ex ia IIIC or non-intrinsically safe circuits:

Type of current:	alternating current (AC)	
voltage max.:	250 V	250 V
current max.:	5 A	3 A
power max.:	100 VA	-
cos ϕ		$\geq 0,7$

Type of current:	direct current (DC)					
voltage:	24 V	110 V	220 V	24 V	110 V	220 V
current max.:	6 A	0,5 A	0,3 A	1,5 A	0,22 A	0,14 A
power max.:	144 W	55 W	66 W	20 W	20 W	20 W
L/R				$\leq 40 \text{ ms}$	$\leq 40 \text{ ms}$	$\leq 40 \text{ ms}$

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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.



SCHEDULE TO EU-TYPE EXAMINATION CERTIFICATE PTB 03 ATEX 2169 X, Issue: 01

The coil circuit and the contact circuit(s) are safely galvanically isolated up to a peak value of the nominal voltage of 375 V. The contact circuits are considered to be connected for safety reasons.

Changes in relation to previous editions:

- New directive 2014/34/EU
- New standard: EN IEC 60079-0:2018
- Adaption of the type plate
- Adaption of the Marking
- Use of an alternative isolating relay
- Adaption of electrical data

(16) Test Report PTB Ex 20-20031

(17) Specific conditions of use

1. The cut-off relay board module must be installed in a housing with at least IP20 protection according to EN 60529.
2. The "Electrical data" are to be taken from the operating instructions.
3. Certified circuits in type of protection Intrinsic Safety Ex ia IIC or Ex ia IIIC may be connected to the coil circuit or the contact circuits. The effective internal inductances and capacities are to be neglected. Several intrinsically safe circuits may only be connected to the contact circuits if the Intrinsic Safety is maintained when the intrinsically safe circuits are connected, taking into account the rules for the interconnection of intrinsically safe circuits.
4. The sum of the peak values of the nominal voltages of the coil circuit and the contact circuit(s) shall not exceed 375 V.

(18) Essential health and safety requirements

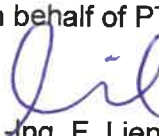
Met by compliance with the aforementioned standards.

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

Braunschweig, October 14, 2020

On behalf of PTB:


Dr.-Ing. F. Lienesch
Direktor und Professor



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