



"MINPROEKT" JSC

CERTIFICATE



[1] **EC-TYPE-EXAMINATION CERTIFICATE**

(Translation)

[2] Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres – Directive 94/9/EC

[3] **EC-type-examination Certificate Number: №: MP 14 ATEX 0148 U**

[4] **Product (Equipment or protective system): Button BKV x.x." - component**

[5] Applicant: **JSC „VELAN”**

[6] Address: 1 Velanovskaya str., Zelenokumsk, Stavropol Region, 357911 Russia

[5] Manufacturer: **JSC „VELAN”**

[6] Address: 1 Velanovskaya str., Zelenokumsk, Stavropol Region, 357911 Russia

[7] This product (equipment or protective system) and any acceptable variation thereto are specified in details in the schedule to this certificate and the documents therein referred to.

[8] Minproekt JSC, notified body No.1877 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment or protective system, intended for use in potentially explosive atmospheres, specified in Annex II of the Directive.

The examination and test results are recorded in:

Confidential Test report No. 35/07.11.2014

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012; EN 60079-1:2007; EN 60079-7:2007.

[10] If the sign "X" is placed after the certificate number, it indicates that this equipment or protective system is subject to special conditions for safe use, specified in the schedule to this certificate.

[11] This EC-type-examination Certificate relates only to the design and the construction of this specified equipment or protective system in accordance with Directive 94/9/EC.

This certificate does not cover the requirements of the Directive on the forthcoming procedures relating to the production process and the delivery of the product.

[12] The marking of the equipment or protective system shall include the following:

II 2 G Ex d e IIC T6 Gb - 20°C ≤ T_a ≤ +55°C



I M2 Ex d e I Mb

This certificate does not authorize the manufacturer or his authorized representative to affix the CE mark followed by the identification number of the Notified Body as well as the marketing and / or use.

This certificate is valid till 2019-12-18

Sofia, 2014-12-18

Executive Director:
/dipl. eng H. Hubenov/



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- [13] Schedule
 [14] EC-type-examination certificate No: MP 14 ATEX 0148 U (Translation)
 [15] Characteristics of the type, subject to the examination

1. Technical description

"Button BKV xx" - component is a switching element in two versions. The first version is with a normally open contact and one normally closed contact and the second version is with two normally open and two normally closed contacts. The contact system is located in a flameproof enclosure. This enclosure is made of composite polyamide "Armamid ПАСВ 20-5 АПМ".

Technical data of the product.

1.1. Type designation:

Name of the button (explosion-proof contact block)

BKV X₁ X₂

Number of gauge:

- 1 – first gauge (two bridges)
 2 – second gauge (one bridge)

Versions of BKV:

- 1 – 1_{no} (two normally open)
 2 – 2_{nc} (two normally closed)

1.2 Technical data:

- operating temperature range: -20°C ÷ +55°C;
- relative humidity of the environment: to (98±2)% at temperature (35±2)°C;
- housing and entrance box - aluminum alloy ALSi12;
- nominal operating current: 16 A;
- nominal voltage: AC: 660V / 127V; DC: 440V / 140V;

2. Application field

"Button BKV xx" is a component for incorporation into enclosures of any kind of protection. It can be incorporated in equipment of Group I and Group II.

Sofia, 2014-12-18

Executive Director:
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- [13] Schedule
[14] EC-type-examination certificate No. MP 14 ATEX 0148 U (Translation)
[16] Test report No 35/07.11.2014
[17] Special requirements for safety use – The certificate is for "Button BKV xx" - component for incorporation. "Button BKV xx" is designed for a working temperature range of $-20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$, different from the standard.

[18] **Essential requirements**

18.1. According to Directive 94/9/EC and the user instructions, the product is intended for incorporation in equipment that is not allowed in Zone 0 and areas of mines, dangerous in terms of methane gas (firedamp) and combustible coal dust (Category M1).

18.2. Other essential safety requirements are covered by the standards pointed in [9].

[19] **List of the technical record parts**

Operating Instructions

Constructional documentation containing

drawing № ИМШБ.642234.022-22 РЗ

Additional information:

1. Technical conditions for polyamide "Armamid" for filling, hard combustible.
2. Quality certificate № 21781/П/07.06.2014 г. for polyamide "Armamid", type ПА СВ 20-5АПМ

Sofia, 2014-12-18

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