



AC 038



KDB ATEX



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This certificate and its  
schedules may only be  
reproduced in its entirety and  
without change  
Products Certification  
Program PCW-ISO/IEC-1b  
Code ICS 13.240

# [1] EC-TYPE EXAMINATION CERTIFICATE



[2] Equipment, protective systems and components intended for use in  
potentially explosive atmospheres - Directive 94/9/EC

[3] EC – type examination certificate:

**KDB 13ATEX0025X**

[4] Equipment:

**Junction box type KZRV4.\*-\*/\*(P)**

[5] Manufacturer:

**JSC „VELAN”**

[6] Address:

**Velanovskaya street 1, Zelenokumsk  
Stavropol Region, 357911 Russia**

[7] This equipment and any acceptable variation thereto is specified in the schedule to this  
certificate and the documents therein referred to.

[8] Główny Instytut Górnictwa, Notified Body number 1453 in accordance with Article 9 of  
Directive 94/9/EC of 23 March 1994, certifies that this equipment and protective system 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 to the Directive.

The examination and test results are recorded in confidential report  
KDB No. 13.027 [T-6995]

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

EN 60079-0:2009; EN 60079-1:2007

[10] If the sign „X“ is placed after the certificate number, it indicates that the 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 construction of the  
specified equipment and protective system in accordance with Directive 94/9/EC.  
Further requirements of the Directive may apply to the manufacturing process and supply of  
this equipment or protective system. These are not covered by this certificate.

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

**Ex II 2G Ex d IIB T6 Gb**

Specjalista ds. Certyfikacji  
Urządzeń Przeciwwybuchowych

dr inż. Michał Górny



KIEROWNIK  
Zespołu Certyfikacji Wyrobów  
KD „BARBARA” Mikołów  
dr hab. inż. Krzysztof Cybulski prof. GIG

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Page 1 of 3

13

## SCHEDULE

14

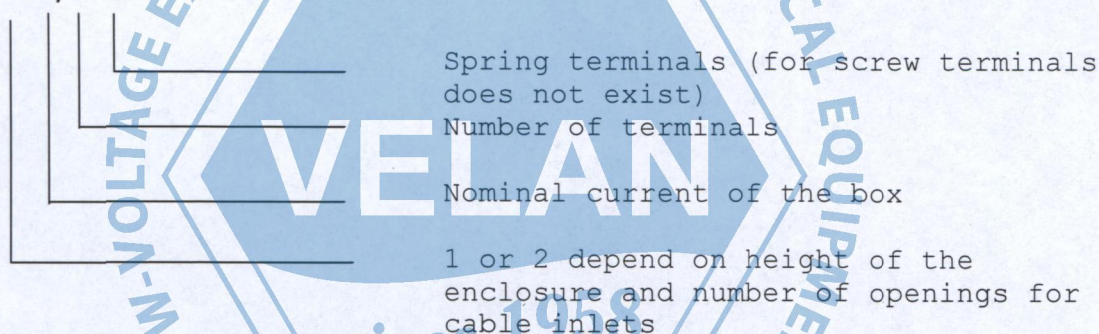
### EC-Type Examination Certificate KDB 13ATEX0025X

#### [15] Description:

The junction box KZRV4 is equipped with flameproof enclosure made of light alloy AlSi12. The enclosure consists of body and a cover, fixed with 14 screws M8. Between the body and the cover - the flanged flameproof joint exists. Terminals of type WK../U (made by Wieland) or WDU... (made by Weidmüller) are placed inside the box. The nominal current and nominal voltage of the box depend on applied terminals. In body of the box there are four openings with thread M20x1,5; M25x1,5; M32x1,5; M40x1,5, M50x1,5 or M63x1,5 for montage of cable inlets. Unused openings are blanking by threaded plugs.

In the name of the box type, particular symbols mean:

KZRV4.\*-\*/\* P



#### Technical parameters:

Max. Nominal voltage	V	690
Max. Number of terminals		70
Max. Nominal current	A	55
Dust and water protection		IP 66
Ambient temperature		-20°C ÷ +50°C

Nominal voltage nominal current and number of terminals are as follow, depend on the type of used terminals:

For Wieland terminals:

Type of the box	Max. number of terminals				
	Terminal type / U <sub>N</sub> (V) / I <sub>N</sub> (A)				
	WK2,5/U 690V 16 A	WK4/U 690V 18 A	WK6/U 690V 32 A	WK10/U 690V 35 A	WK16/U 690V 55 A
KZRV4.1	70	60	50	15	12
KZRV4.2	70	60		15	12

## SCHEDULE

### EC-Type Examination Certificate KDB 13ATEX0025X

For Weidmüller terminals

Type of the box	Max. number of terminals				
	Terminal type / U <sub>N</sub> (V) / I <sub>N</sub> (A)				
	WDU2,5 600V 18 A	WDU2,5N 300V 16 A	WDU4 600V 32 A	WDU4N 300V 28 A	WDU6 600V 35 A
KZRV4.1	70	70	60	60	50
KZRV4.2	70	70	60	60	50

**[16] Test report:**

Sprawozdanie KDB Nr 13.027

The overpressure for routine test should be not below 1,1 MPa.

**[17] Special condition for save use:**

- The screws of mechanical class no below 8.8 have to be used for jointing elements of flameproof enclosure, according to manual instruction.
- The junction box should be equipped with flameproof cable inlets according to requirements of EN 60079-14.
- The box can be used for connecting intrinsically safe circuits, provided, that the insulating distances between intrinsically safe and non-intrinsically terminals are in accordance with the requirements of EN 60079-11.

**[18] Essentials health and safety requirements:**

Met by compliance with standards:

EN 60079-0:2009; (PN-EN 60079-0:2009);

EN 60079-1:2007; (PN-EN 60079-1:2010);

