



GIG



AC 038



KDB 13ATEX0020X



Główny Instytut Górnictwa
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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 13ATEX0020X

[4] Equipment:

Junction box type KZRV3.*-*/*(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. 13.023 [T-6981]

[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 Przeciwybuchowych

dr inż. Michał Górny



KIEROWNIK
Zespołu Certyfikacji WYROBÓW
KD "BARBARA" Mikołów
dr hab. inż. Krzysztof Cylulski prof. GIG

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SCHEDULE

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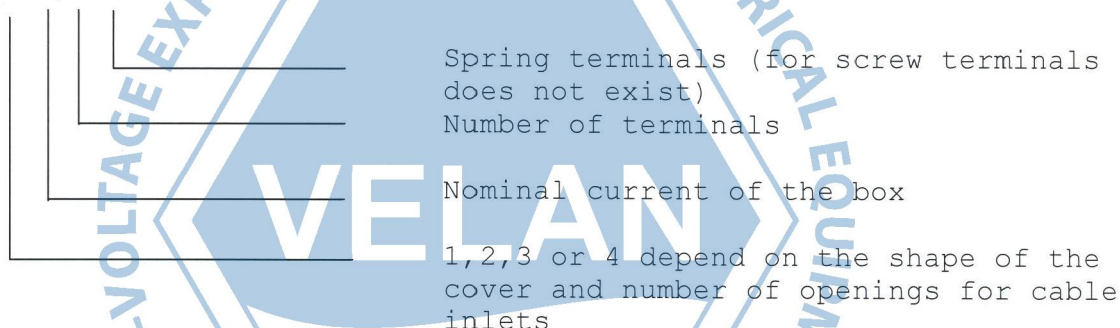
EC-Type Examination Certificate KDB 13ATEX0023X

[15] Description:

The junction box KZRV3 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 or M32x1,5 for montage of cable inlets. Unused openings are blanking by threaded plugs.

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

KZRV3.*-*/* P



Technical parameters:

| | | |
|---------------------------|---|---------------|
| Max. Nominal voltage | V | 690 |
| Max. Number of terminals | | 30 |
| Max. Nominal current | A | 50 |
| Dust and water protection | | IP 55 |
| 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 _N (V) / I _N (A) | | | | |
| | WK2,5/U 690V 20 A | WK4/U 690V 24 A | WK6/U 690V 32 A | WK10/U 690V 40 A | WK16/U 690V 50 A |
| KZRV3.1 | 30 | 30 | 30 | 30 | 20 |
| KZRV3.2 | 30 | 30 | 30 | 30 | 20 |
| KZRV3.3 | 30 | 30 | 30 | 30 | 20 |
| KZRV3.4 | 30 | 30 | 30 | 30 | 20 |

SCHEDULE

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Weidmüller terminals

| Type of the box | Max. number of terminals | | | | |
|-----------------|---|-------------------------|----------------------|-----------------------|----------------------|
| | Terminal type / U _N (V) / I _N (A) | | | | |
| | WDU2,5 600V 20 A | WDU2,5N 300V 16 A | WDU4 600V 35 A | WDU4N 300V 15 A | WDU6 600V 32 A |
| KZRV3.1 | 30 | 30 | 30 | 30 | 20 |
| KZRV3.2 | 30 | 30 | 30 | 30 | 20 |
| KZRV3.3 | 30 | 30 | 30 | 30 | 20 |
| KZRV3.4 | 30 | 30 | 30 | 30 | 20 |

[16] Test report:

Sprawozdanie KDB Nr 13.023

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);

