

CERTIFICATE



[1] EC-TYPE EXAMINATION CERTIFICATE

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

[3]

KDB 05ATEX116X

[4] Rotary Switch type ExWP x.xx-MS

Manufacturer:

Zakłady Badawczo Produkcyjne "ELDIS" Sp. z o. o. ul. Narwicka 1, PL 80-557 Gdańsk

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

Central Mining Institute, Notified Body number 1453 in accordance with Article 9 of Directive [8] 94/9/FC 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 number KDB No. 05.111 IT-53361

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with: EN 50014:1997+A1:1999+A2:1999; EN 50018:2000+A1:2002

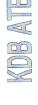
EN 50019:2000; EN 50281-1-1:1998+AC:1999+A1:2002 If the sign "X" is placed after the certificate number, it indicates that the equipment or [10] protective system is subject to special conditions for safe use specified in the schedule to this

This EC-type examination certificate relates only to the design and construction of the specified [11] 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. The marking of the equipment or protective system shall include the following: [12]



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[5]

Address: [6]

certificate

Equipment or protective system:

EC-type examination certificate:



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[13]

SCHEDULE

[14]

EC-Type Examination Certificate KDB 05ATEX116X

[15] Description:

Rotary Switches types ExWP... have been designated for use in single phase lighting circuits, power circuits, control circuits and measuring circuits in the potentially explosive gas, vapour and dust atmospheres of group II, temperature classes T1+T6.

The Rotary Switch consists flameproof rotary switch placed in brazen enclosure. The Rotary Switches were provided with cable glands (integrated part of enclosure) for 9mm, 13mm, 17mm cables.

Rotary Switches types ExWP... are manufactured in four variations as the case of number of cable glands.

Technical parameters:

Rated voltage	250 V	_
Rated frequency	50 Hz	-
Rated current	10 A	_
Max. diameter of conductor	2,5 mm ²	_
Relative humidity	98±2 %	
Operational temperature	-25°C to +45°C	_
Degree of protection provided by enclosure	IP67	





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[13] SCHEDULE

[14] EC-Type Examination Certificate KDB 05ATEX116X

[16] Test report:

Report KDB no. 05.111

The relative pressure of 14,1 [bar] was applied during the overpressure test in conformity with 15,1,3,1 En 50018:2000+A1:2002. It is four times the reference pressure for enclosures not subject to routine overpressure testing.

[17] Special condition for safe use:

- As the replacing elements, can be use only those specified in the descriptive documentation;
- Distribution Box operational temperature: -25°C to +45°C;

[18] Essential health and safety requirements:

Met by compliance with standards listed in section 9. of this Certificate.

[19] Descriptive documents:

Technical Documentation "Rotary Switch type ExWP x.xx-MS"		March 2005
Fig. "Rotary Switch type ExWP x.xx-MS"	Ex WP.CO	07.01.05
Fig. "Enclosure of switch"	Ex OW-WP.00	07.01.05
Fig. "Body K-OW 2.2"	Ex OW-GR.01/2	07.01.05
Fig. "Body K-OW 2.2L"	Ex CW-GR.01/2L	07.01.05
Fig. "Body K-OW 2.3"	Ex CW-GR, 01/3	07.01.05
Fig. "Cover PWP-OW of rotary switch"	Ex OW-WP.01	07.01.05
Fig. "Gland M10x1"	Ex OW-WP.02	07.01.05
Fig. "Gland M27x1,5"	Ex OW-GR.03	07.01.05
Fig. "Round washer 24/13"	Ex OW-GR, 04	07.01.05
Fig. "Round washer 8,6/5,3"	Ex OW-WP.03	07.01.05
Fig. "Gasket 8/4"	Ex OW-WP.04	07.01.05
Fig. "Gasket of enclosure"	Ex OW-GR.05	07.01.05
Fig. "Gasket 24/9"	Ex OW-GR.06	07.01.05
Fig. "Switch in flameproof enclosure	Ex &K-WP.00.00	07.01.05
Ex 2K-10A"		
Fig. "Body of flameproof enclosure"	Ex &K-WP.00.01	07.01.05
Fig. "Cover of flameproof enclosure - complete"	Ex ŁK-WP.10.00	07.01.05
Fig. "Cover of flameproof enclosure"	Ex ŁK-WP.11.00	07.01.05
Fig. "Bushing"	Ex &K-WP.11.01	07.01.05
Fig. "Bush"	Ex &K-WP.11.02	07.01.05
Fig. "Axle"	Ex &K-WP.20.11	07.01.05
Fig. "Flameproof joints and clearance of	Ex ŁK-WP.A	07.01.05
switch Ex &K-10A"		0.101100
Fig. "Data plate"	Ex WD C	07.01.05
Instruction of safety use and servicing of the	Ex WD	March
flameproof distribution boxes.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2005