



OBAC

Ośrodek Badań, Atestacji i Certyfikacji Sp. z o.o.
44-121 Gliwice, ul. Łabędzka 21

(1) EU-TYPE EXAMINATION CERTIFICATE

(2) Equipment, components and protective systems intended for use in potentially explosive atmospheres.
Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014.

(3) EU type examination certificate No: **OBAC 18 ATEX 0335X**

(4) Product: **Signal Lamp type DKL01**

(5) Manufacturer: **Rixen Messtechnik GmbH & Co. KG**

(6) Address: **Kornweg, D-44805 Bochum, Deutschland**

(7) This equipment, component or protective system and any of its approved version is specified in this certificate and in documents listed in p. 19.

(8) The Institute for Research and Certification „OBAC” Ltd., notified body No.1461 in accordance with Article 17 of the European Council Directive 2014/34/EU of February 26, 2014, certifies that this equipment, component or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment, component or protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in the confidential report No. OBAC/18/ATEX/0335.

(9) Compliance with the Safety Requirements has been assured by conformity with:

PN-EN 50303:2004
(EN 50303:2000)

PN-EN 60079-0:2013
(EN 60079-0:2012)

PN-EN 60079-11:2012
(EN 60079-11:2012)

(10) If the sign „X” is placed after the certificate number, it indicates that the product concerned is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EU-type examination certificate relates only to the design, evaluation and tests of the specified equipment, component or protective system according to the Directive 2014/34/EU. The certificate does not apply to further requirements of the Directive relating to the manufacture and placing on the market of this equipment, component or protective system.

(12) The marking of the equipment, component or protective system must include the following:



I M1 Ex ia I Ma



II 1G Ex ia IIC T4 Ga



II 1D Ex ia IIC T135°C Da



**Certification Body
Manager**

Piotr Tarnawski M. Com.

Gliwice, 30th November 2018



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(13)

SCHEDULE

(14)

to the EU-Type Examination Certificate
No. OBAC 18 ATEX 0335X

(15) Ex Product description:

Signal Lamp type DKL01 is a multi-colored LED device used for light signaling. The device's PCB consists of red, yellow and green colours LEDs controlled via series resistors. PCB with LEDs is completely encapsulated with epoxy resin inside housing.

The base of the lamp is made of brass MS58, the upper part of housing (LEDs cover) is composed of polycarbonate. The device's housing provides IP65 degree of protection.

Marking:

Signal Lamp type **DKL01**

Rated data:

Group I

Rated voltage

12V DC

Rated current

/ 20mA (red colour LED)

/ 45mA (yellow colour LED)

/ 45mA (green colour LED)

Group II

Rated voltage

24V DC

Rated current

/ 20mA (red colour LED)

/ 40mA (yellow colour LED)

/ 40mA (green colour LED)

Ambient temperature range

$-20^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$

Degree of protection

IP65

Parameters related to intrinsic safety:

Power input - wires (2(br), 3(gn), 4(ge) - 1(ws) GND)

For Group I

$U_i = 16\text{V}$, C_i , L_i – negligible

For Group II

$U_i = 30\text{V}$, C_i , L_i – negligible





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(16) **Signal Lamp type DKL01** meets the requirements for devices with explosion proof design and may be used as a device of group I category M1 or group II category 1D, 1G.

(17) Special conditions for safe operation:

- For Group II applications the base of device's housing shall be earthed.
- Ambient temperature range: $-20^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$.

(18) The compliance with Safety Requirements has been assured by compliance with standards shown in p. 9 of this certificate.

(19) List of agreed documentation:

- Betriebsanleitung (Auszug) DKL01 Signalleuchte no. 10-0007-01, v1.3, 18.10.2018.
- Beschreibung no. 10-0007-02, v1.2, 18.10.2018.
- Auswertung zur 60079-0:2012 Signalleuchte DKL01, v1.2, 18.10.2018.
- Auswertung zur 60079-11:2012 Signalleuchte DKL01, v1.2, 18.10.2018.

