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SIA „International Center for Quality Certification - ICQC”
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(1) **EU-TYPE EXAMINATION CERTIFICATE**

(2) **Equipment and protective systems intended for use in potentially explosive atmospheres – Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **ICQC 19 ATEX 0427**

(4) Equipment: **Lighting fixture type DSP21VEx**

(5) Manufacturer: **OSP Vatra Corporation LLC**

(6) Address: **46 Mikylinetska street, 46005 Ternopil, Ukraine**

(7) This equipment and any acceptable variation, also documents which are specified in the schedule to this certificate.

(8) The certification body ICQC, Notified body No. 2549 in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014, certifies that this equipment 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 no **427/2019/08/ATEX**

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012/A11:2013, EN 60079-1:2014, EN 60079-7:2015, EN 60079-28:2015, EN 60079-31:2014

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment 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 and the construction of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture and supply of this equipment. These are not covered by the certificate

(12) The marking of the equipment or protective system shall include the following:



**II 2G Ex db eb op is IIB T6 Gb or II 2D Ex tb op is IIIC T80°C Db
ambient temperature Ta - see tables in the schedule to certificate**

Director of Certification:



Sergey Kovalev

Date of issue: 16 October, 2019
Jurmala, Latvia

(13) **SCHEDULE**

(14) **to EU-TYPE EXAMINATION CERTIFICATE: ICQC 19 ATEX 0427**

(15) **Description of Equipment:**

Explosion-proof lighting fixture type DSP21VEx (hereinafter referred to as lighting fixture) consists of light source compartment with the LED matrix inside and power supply compartment, that are in the type of protection flameproof enclosure "d" and terminal compartment in the type of protection increased safety "e".

The light-transmitting cap is made of tempered borosilicate glass and the outer enclosure elements are made of cast aluminum alloy. The interconnections between light source and power supply compartments are provided by means of the line bushings with encapsulated cores of connection cable. The Ni-Cd or Ni-MH battery pack with a series connected cells is located inside the power supply compartment for the models with the emergency power supply.

There are one or two openings M20 in the terminal compartment for installing the cable glands, or factory installed flanged cable gland with the outer thread 3/4 BSPP for conduit entry. The cable entry devices (cable glands) not factory installed shall be certified with appropriated type of protection and rated IP66 (or higher). Unused entries shall be closed with certified blanking elements. Installing and use of cable glands, conduit entries and blanking elements shall be in compliance with EN 60079-14 current edition.

The lighting fixtures are provided with internal and external grounding clamps with a relief grounding sign affixed near them. The lighting fixtures shall be grounded with a separate wire of cable. There are the warning labels "WARNING – DO NOT OPEN WHEN ENERGIZED" affixed on the non-emergency lighting fixtures and "WARNING – DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT" on the models with the emergency power supply.

The maximum optical power of the LED module on the surface of the light-transmitting cap does not exceed the value for group IIB, equipment of temperature class T6 (35 mW).

There are following features available in the DSP21VEx non-emergency models:

| Parameters | Type | | | | |
|---------------------|---|-----------------|-----------------|-----------------|-------------------|
| | DSP21VEx-40-*** | DSP21VEx-50-*** | DSP21VEx-60-*** | DSP21VEx-70-*** | DSP21VEx-x-80-*** |
| | Value | | | | |
| Rated power | 40 W | 50 W | 60 W | 70 W | 80 W |
| Supply voltage | 100~305VAC (50/60Hz) or 142~431VDC | | | | |
| Cable | outer shell - according to the data of the used cable gland | | | | |
| Protection level | IP 66 | | | | |
| Ambient temperature | -40°C to +60°C | -40°C to +55°C | -40°C to +40°C | | |

There are following features available in the emergency lighting fixtures DSP21VEx-40-***:

| Parameters | Value |
|-----------------------------|------------------------|
| Normalized mode | 40 W |
| Emergency mode | 8 W |
| Electrochemical system type | Ni-Cd or Ni-MH |
| Voltage | 7,2 V DC |
| Capacity | 4 A·h |
| Supply voltage | 220-240 V AC (50/60Hz) |
| Ambient temperature | 0°C to +40°C |
| Protection level | IP 66 |

*** - installation related parameters

(13) **SCHEDULE**

(14) **to EU-TYPE EXAMINATION CERTIFICATE: ICQC 19 ATEX 0427**

(15) **Description of Equipment:**

Routine tests:

Routine tests according to cl. 7 of EN 60079-7 shall be conducted for Exe terminal block with a test voltage of 1862 V.

Routine tests according to cl. 16 of EN 60079-1 shall be conducted for Exd power supply compartment with a test pressure of 0,96 MPa.

Routine tests according to cl. 16 of EN 60079-1 shall be conducted for Exd light source compartment with a test pressure of 0,65 MPa.

(16) **Descriptive Documents:**

VATRA.Ex.063 Lighting fixture type DSP21VEx Operation manual

The drawings are listed in Evaluation report No:

(17) **Specific conditions of use:**

None.

(18) **Essential Health and Safety Requirements:**

Met by compliance with the standards mentioned in clause (9).