



[13] Schedule

[14] Certificate Nr : **IEP 14 ATEX 0192**

[15] Description of Equipment Protective System : The firefighter torch Iskra led type LSI-102 is electrical device. Firefighter torch Iskra led type LSI-102 led are working with battery. The outer casing is made of antistatic plastic and Al 6061. Limiting resistor in the circuit board power is available. Lense is made of PMMA. The outer casing on the lense locking system.

Torch light use with alkaline batteries (Duracell , Energizer or Panasonic) . The firefighter torch Iskra led type LSI-102 shall not be opened in hazardous areas. The firefighter torch Iskra led type LSI-102 battery will be change only outside hazardous area. The firefighter torch Iskra led type LSI-102 has been evaluated in the contents of IP 67.

The firefighter torch led use as Zone 1 and Zone 21 that be used danger area determined in the EN 60079-10-1 and EN 60079-10-2 standard.

Technical Parameters : The firefighter torch Iskra led type LSI-102

Type	LSI-102
Voltage (V_{max}) / Current (I_{max})	6 V DC / 0,474 A.
IP xy	IP 67
Ambient temperature ($^{\circ}C$)	(- 20 ; + 55) $^{\circ}C$

[16] This certificate is in the contents of standards that mentioned in item [9] It has been accepted that the firefighter torch are manufactured according to the producer instructions and the standards mentioned above.

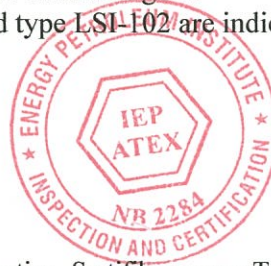
[17] Informations of mounting instruction manual of the firefighter torch Iskra led type LSI-102
3 pages approved and date 23.09.2013

[18] List of documentation ;

<u>Drawing Nr :</u>	<u>Drawing Name :</u>	<u>Date :</u>
LSI-102.00	Dimensions and Exploded drawing	08.2013
LSI-102.01	Body	08.2013
LSI-102.02	Case	09.2013
LSI-102.03	Nut	09.2013
LSI-102.04	Lense	09.2013
LSI-102.06	Seal	09.2013
LSI-102.07	Face seal	09.2013
LSI-102.08	Battery mounting scheme	09.2013
LSI-102.12	Switch lever	09.2013
LSI-102.14	Lever overlay	09.2013
LSI-102.05.00	Diodled module and magnetic switch	08.2013
LSI-102.05.01	Radiator frame	08.2013
LSI-102.05.03	Mirror	08.2013
LSI-102.05.04	Printed circuit board	08.2013
LSI-102.00	Electrical circuit diagram	08.2013
Part inside of firefighter torch Iskra led type LSI-102 are indicated in the electric component list		
LSI-102.05.00 , date 08.2013.		

Responsible person ;

Nurettin Terzioğlu
Head of certification body



Date of issue (Rev.) : 14.07.2014

Date of issue: 08.04.2014

IEP Uluslar Arası Enerji Petrol Gözetim , Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Sti.
MTK Sitesi 5746/1 Sok. No:9 K:2 Camdibi – IZMIR / TURKEY Tel : +90 232 431 17 45 46 & Fax : +90 232 431 17 30
Number of Pages : 2 / 2

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EC-Type Examination Certificate

[1]

[2] **Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres**

Directive 94/9/EC

[3] EC – Type Examination Certificate Number : **IEP 14 ATEX 0192**

[4] Equipment : **Firefighter torch ISKRA LED , type LSI-102**

[5] Manufacturer : **KALISKIE ZAKLADY PRZEMYSŁU TERENOWEGO w KALISZU Sp. z o.o.**

[6] Address : **Ul. Przybrzezna 37 , 62-800 Kalisz POLAND**

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

[8] The IEP Uluslar Arası Enerji Petrol Gözetim , Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Sti. , notified body number 2284 in accordance with of the Council Directive 94/9/EC of 23 March 1994 certifies that this equipment or 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 N : IEP - RP.Ex - 10.581 date 07.04.2014

[9] Compliance with Essential Health and safety requirements has been assured by compliance with ;

EN 60079-0:2009 , EN 60079-11:2012 , EN 60079-7:2007 , EN 60079-31:2009

[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 examination and testing of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the directive 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 or protective system shall include the following :



II 2G Ex e ib IIB T4 Gb

II 2D Ex tb IIIC TMax 95 °C Db , IP 67

Responsible person :

Nurettin Terzioğlu
Head of certification body



Date of issue : 14.07.2014(Rv.1)

