

(1) EU-Type Examination Certificate

(2) Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres

Directive 2014/34/EU

(3) EU – Type Examination Certificate Number: **IEP 22 ATEX 1066X**

(4) Product: **Han Lights ARM series - Led Projectors**

(5) Firm Name: **Labris Maden ve Makina Sanayi AŞ.**

(6) Firm Address: **Taşpınar Mahallesi İsmail Gaspıralı Caddesi No:68/1 Gölbaşı/ANKARA - TÜRKİYE**

(7) This product any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The IEP Uluslararası Enerji Petrol Gözetim, Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Sti., notified body number 2284 in accordance with Article 17 of the Directive 2014/34/EU of European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in confidential Report Nr: IEP.Rp.Ex.10-2215 date 14.06.2022.

(9) Compliance with Essential Health and safety requirements has been assured by compliance with;

EN IEC 60079-0:2018 , EN 60079-1:2014 , EN 60079-31:2014

(10) If the sign “ X “ is placed after the certificate number, it indicates that the product is subject to Specified Conditions of Safe Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product in accordance to the directive 2014/34/EU. Further requirements of the directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

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

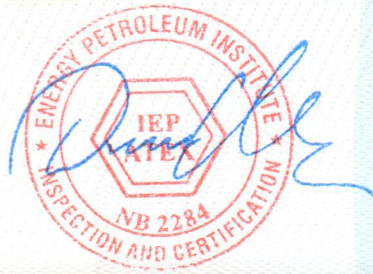


I M2 Ex db I Mb, IP 65

II 2G Ex db IIB T4 Gb

II 2D Ex tb IIIC T120°C Db

Responsible Person:
Nurettin Terzioğlu
Head of Certification Body



Date of Issue: 23.06.2022





(13) Schedule

(14) Certificate Nr: **IEP 22 ATEX 1066X**

(15) Description of Equipment: Han Lights ARM series Led projectors are suitable for underground mines. The product consists of body (S355;st52 high strength structural steel), glass (Solid Polycarbonate with impact resistance than 8 mm tempered glass), gland (d type exproof), and glass protection grille. Han Lights-Arm series has 4 different power options, 20-25-35-45 Watts. The cable entry gland of the enclosure is d-type Exproof. (If there is no cable entry, d type blind plug will be used.) There is On/Off Switch to activate the system on the luminaire. There are also batteries inside the led fixture. It continues to give light for 6 more hours during a power outage. To must be used of ground cable 4 mm2 (min) and HD 21.13.S1/HD.22.4.S4. Led Luminaire has been evaluated in the contents of IP 65 according to the EN 60529 standard.

Technical Parameters:

Type	Han Light Arm
Power	20 - 25 -35 – 45 Watt
Operating Voltage	220 Volt +-10%
Dimensions	28.2 cm x 23.26 cm x 9.7 cm
Operating Ambient Temperature	-20 °C ~ +65 °C
Operating Frequency	50-60 Hz
Operating Time (When the power is cut off)	6 hours
(IEP 22 ATEX 1066X) X Means: Installation and maintenance should be done by the authorized person or authorized company according to the manual and related standards.	

(16) This certificate is in the contents of standards that mentioned invite (9) It has been accepted that Han Lights ARM series Led projectors are manufactured according to the producer instructions and the standards mentioned above.

(17) Information's of mounting instruction manual of 5 pages.

(18) Additional documents:

- ◆ IP and explosion test report : TSE 111876, date 04-22 ; TSE 173706, date 06-22

Drawing Nr;	Date;	Drawing Nr;	Date;
LA-ASSEMBLY-2	16.08.2021	LA-LEDP-001-1	16.08.2021
LA-ASSEMBLY-2	16.08.2021	LA-LEDP-002-1	16.08.2021
LA-E-001-1	16.08.2021	LA-T-002-0	16.08.2021
LA-E-001-1	16.08.2021	LA-T-004-0	16.08.2021
LA-E-002-2	16.08.2021	LA-T-005-0	16.08.2021
LA-E-003-2	16.11.2021	LA-T-006-0	06.10.2021
LA-E-008-0	16.08.2021	LA-T-006-1	17.12.2021
LA-E-009-0	14.12.2021	LA-T-007-0	17.11.2021
LA-K-001-0	18.08.2021		

Manufacturer test reports: IP 65 and Electrical security test reports.

Installation and periodic maintenance should be done by authorized personnel or authorized firm

For the validity of the analysis type certificate, the parts that are used in Han Lights ARM series Led projectors are determined in confirmed 01.01.2022 dated in the component and part list.

Responsible Person:

Nurettin Terzioğlu
Head of Certification Body

Date of Issue: 23.06.2022

