

KSC POLAND Sp. z o.o.

(1) TYPE EXAMINATION CERTIFICATE

(2) **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU**

(3) Type Examination

Certificate No.: **KSCP 23ATEX0022X**, Issue: 0

(4) Product: **Ex Linear Light Fixture with LED modules
OptiLine**-*******

(5) Manufacturer: **HARDO Czapski i Wspolnicy Spolka Jawna**

(6) Address: **Spacerowa 5, 32-083, Balice, Poland**

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

(8) KSC POLAND Sp. z o.o., 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 Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.

The examination and test results are recorded in confidential Report No. **KSCP/AR/23/Q00343**

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

**EN IEC 60079-0:2018
EN 60079-18:2015/A1:2017**

EN 60079-7:2015/A1:2018

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

(11) This Type Examination Certificate relates only to the design and construction of the specified equipment and not to specific items of equipment subsequently manufactured.

(12) The marking of the product shall include the following:

OptiLine **-***---**

Ex II 3G Ex ec IIC T4 Gc

OptiLine **-***CBX and CBY**

Ex II 3G Ex ec mc IIC T4 Gc

OptiLine **-***A1-**

Ex II 3G Ex ec IIC T4 Gc



Signature
President of the Board

Katowice, 24th October 2023



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(13)

SCHEDULE

(14)

CERTIFICATE No.: KSCP 23ATEX0022 X, Issue:0

(15) Description of Product:

Ex Linear Light Fixture with LED modules OptiLine**_***** series is LED luminaire. Enclosure of OptiLine fixture is made from glass fibre reinforced polyester (GRP) bottom housing and polycarbonate (PC) top housing being diffuser of light fixture. Diffuser is available in three different versions: transparent, opal and frozen. Connection of both casing element is performed with silicone foam gasket. It is anticipated that outer electrical wires go through certified cable glands inside of the enclosure. Unused holes can be plugged with certified blanking elements. Diameters of cable glands and/or blanking elements is M20 or M25. Depending on used elements, fixture has ingress protection class IP 66/67. Fixture is constructed as one compartment device. Enclosure of fixture is opened/closed by stainless steel clips disallowing opening it without proper tool. Inside the housing, there is a bottom frame made of powder-coated steel. Depending on fixture configuration, bottom frame has place for mounting; LED module driver, cable terminals, pass-through cables, Ni-Cd battery packages, CBX and CBY modules. It is possible to use LED drivers with DALI system (Ex certified components) in luminaires. Bottom frame is mounted to bottom GRP body by screws suitable to non-metallic materials. The following certified Ex components below are permitted to be installed in the equipment:

Type	Manufacturer	Ex Mark	Certificate Number
LED Control Gear type 3 C 180*8*	HADLER GmbH	Ex ec IIC Gc II 3 G	IECEX IBE 19.0029U
Integrated Emergency Unit type 3 * 180 ***	HADLER GmbH	Ex ec IIC Gc II 3 G	IECEX IBE 17.0007U
WAGO 4-conductor device connector types 862-****/999-950	WAGO Kontakttechnik GmbH & Co.KG	Ex eb IIC Gb II 2G	IECEX PTB 05.0003U PTB 03 ATEX 1189 U
Screwless modular feed-through and single terminal block, Type 262-1** and Type 262-2**	WAGO Kontakttechnik GmbH & Co.KG	Ex eb IIC Gb II 2G	IECEX PTB 04.0004U PTB 98 ATEX 3125 U

Rating:

Rated Voltage:	230 V AC/DC, 50 Hz,
Rated power	Depends of model: 20.1 W ~ 59.0 W
Ambient temperature:	OptiLine **_*****---; $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +50^{\circ}\text{C}$ OptiLine **_*****A1-; $0^{\circ}\text{C} \leq T_{\text{amb}} \leq +45^{\circ}\text{C}$ OptiLine **_*****CBX and CBY; $-30^{\circ}\text{C} \leq T_{\text{amb}} \leq +50^{\circ}\text{C}$
Ingress protection:	IP 66/ 67 (separately tested against IEC 60529 requirements)



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(16) Report Number:

– KSCP/AR/23/Q00343

(17) Specific Conditions of Use:

– The equipment includes external non-metallic parts. the user shall therefore ensure that the equipment is not installed in a location where it may be subjected to external conditions which might cause a build-up of electrostatic charges on non-conducting surfaces. Additionally, cleaning of the equipment shall be done with a damp cloth.

(18) Essential Health and Safety Requirements:

Essential Health and Safety Requirements are ensured by conformity with standards listed at item 9 of this certificate.

(19) Drawings and Documents:

– Documentation agreed, provided by manufacturer:

Title:	Drawing No.:	Rev. Level:	Date:
GRP BODY WITH GASKET 718	K-26190-PW-0101	00	02.2023
PC COVER CLEAR 718	K-26190-PW-0201	00	02.2023
GRP BODY WITH GASKET 736	K-26190-PW-0301	00	02.2023
PC COVER 736	K-26190-PW-0401	00	02.2023
SILIKON FOAM GASKET	K-26190-PW-0501	00	03.2023
LOCKING CLIP	K-26190-PW-0601	00	02.2023
LOWER BASE 718	K-26190-PW-0701	00	02.2023
UPPER BASE 718	K-26190-PW-0801	00	02.2023
LOWER BASE 736	K-26190-PW-0901	00	02.2023
UPPER BASE 736	K-26190-PW-1001	00	02.2023
CONSTANT CURRENT CONTROL GEAR LUXTRONIC LINEAR VI LED	K-26190-PW-1101	00	02.2023
CONSTANT CURRENT EMERGENCY UNIT V LED LUXTRONIC	K-26190-PW-1201	00	02.2023
CONSTANT CURRENT CONTROL GEAR LUXTRONIC LINEAR VI LED DALI	K-26190-PW-1301	00	02.2023
CONSTANT CURRENT EMERGENCY UNIT V LED LUXTRONIC DALI	K-26190-PW-1401	01	02.2023
BATTERY PACK NiCd 2500mAh / 6V	K-26190-PW-1501	00	02.2023



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BATTERY PACK NiCd 2500mAh / 6V HOLDER	K-26190-PW-1601	00	02.2023
BATTERY PACK NiCd 2500mAh / 6V	K-26190-PW-1701	00	02.2023
BATTERY PACK NiCd 2500mAh / 6V HOLDER	K-26190-PW-1801	00	02.2023
CBX 4-100W MODULE	K-26190-PW-1901	00	02.2023
CBY 4-100W MODULE	K-26190-PW-2001	00	02.2023
HEX LED MODULE 5416-1/1	K-26190-PW-2101	00	02.2023
HEX LED MODULE 5416-1/2	K-26190-PW-2102	00	19.05.2023
HEX LED MODULE 5416-1/3	K-26190-PW-2103	00	19.05.2023
LED FOR EMERGENCY POWER UNIT	K-26190-PW-2401	00	02.2023
NAMEPLATE OPTILINE 60	K-26190-PW-2601	01	10.2023
NAMEPLATE OPTILINE 12	K-26190-PW-2602	01	10.2023
WARNING PLATE OPTILINE	K-26190-PW-2603	00	02.2023
BATTERY PLATE OPTILINE	K-26190-PW-2604	00	02.2023
MAXIMUM CURRENT PLATE OPTILINE	K-26190-PW-2605	00	02.2023
PRODUCT LABEL OPTILINE	K-26190-PW-2606	00	02.2023
CBX, CBY MODULE PLATE OPTILINE	K-26190-PW-2607	00	02.2023
WARNING PLATE FOR EMERGENCY VERSION OPTILINE	K-26190-PW-2608	00	02.2023
CBX, CBY MODULE WIRE MARKING OPTILINE	K-26190-PW-2609	00	02.2023
LABEL DESCRIPTION	K-26190-PW-2610	01	10.2023
LENSE LEDIL 15524 LINNEA 60	K-26190-PW-5201	-	22.12.2021
ELECTRICAL PARAMETERS MEASUREMENTS	K-26190-PW-8001	-	01.09.2023
ASSEMBLY DRAWING OptiLine 60-3 55 22 25 ---	K-26190-PW-9001	01	09.2023
ASSEMBLY DRAWING OptiLine 60-3 70 20 25 A1	K-26190-PW-9002	01	09.2023
ASSEMBLY DRAWING OptiLine 60-3 33 22 25 CBX	K-26190-PW-9003	01	09.2023
ASSEMBLY DRAWING OptiLine 60-3 55 22 25 CBY	K-26190-PW-9004	01	09.2023
ASSEMBLY DRAWING OptiLine 12-3 55 22 25 ---	K-26190-PW-9005	01	09.2023



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ASSEMBLY DRAWING OptiLine 12-3 77 22 25 A1	K-26190-PW-9006	01	09.2023
ASSEMBLY DRAWING OptiLine 12-3 33 22 25 CBX	K-26190-PW-9007	01	09.2023
ASSEMBLY DRAWING OptiLine 12-3 33 22 25 CBY	K-26190-PW-9008	01	09.2023

– Instruction Manual:

Title:	Document No.:	Rev. Level:	Date:
USE AND MAINTENANCE INSTRUCTION OF LIGHTING FIXTURE OptiLine **-*****--- Series	K-26190-PW-0005	1.1	02.10.2023
USE AND MAINTENANCE INSTRUCTION OF LIGHTING FIXTURE OptiLine **-*****A1- Series	K-26190-PW-0006	1.1	02.10.2023
USE AND MAINTENANCE INSTRUCTION OF LIGHTING FIXTURE OptiLine **- *****CBX/CBY Series	K-26190-PW-0007	1.1	02.10.2023

A detailed list of documents necessary to identify the approved type is included in the Report referred to in point 16 of this certificate.

This certificate is issued for the product type, the characteristics of which are detailed in the this certificate. Subsequent production items are not covered by the certification body's conformity assessment. The manufacturer is solely and fully responsible for conformity of all products to all applicable Standards, specifications, requirements or Directives.

(20) Certificate history:

Issue	Issue date	Notes
0	24 th October 2023	Initial certification

