



EC-TYPE EXAMINATION CERTIFICATE

- Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**
- EC-Type Examination Certificate Number:** ITS16ATEX28430X
- Equipment or Protective System:** Portable Battery Powered Light Model EX90L T4 IIC/IIB
- Manufacturer:** Golight Pty Ltd T/A EXIN Light
- Address:** 7/1 Reliance Drive, Tuggerah, NSW 2259, Australia
- This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- Intertek Testing and Certification Limited, notified body number 0359 in accordance with Article 9 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 Intertek Report Ref. G102410923, dated March 2016.
- Compliance with the Essential Health and Safety Requirements has been assured by compliance with standards EN 60079-0:2012, EN 60079-11:2012, EN 60079-28:2015 and EN 50303:2000 except in respect of those requirements referred to at item 16 of the Schedule.
- 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.
- This EC Type examination certificate relates only to the design, examination and tests 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.
- The marking of the equipment or protective system shall include the following:-



I M1 Ex ia op is I Ma
II 1 G Ex ia op is IIC/IIB T4 Ga

-20°C ≤ Ta ≤ 40°C



A T Austin
Certification Officer
24 March 2016

Intertek Testing & Certification Limited
Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB
Tel: +44 (0)1372 370900 Fax: +44 (0)1372 370977
www.intertek.com

Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ.

This certificate may only be reproduced in its entirety and without any change, schedule included and is subject to Intertek Testing and Certification's Conditions for Granting Certification.



SCHEDULE

EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS16ATEX28430X

12. Description of Equipment or Protective System

The Portable Battery Powered Light Model EX90L T4 IIC/IIB is a battery powered portable LED lighting system.

The Model EX90L T4 IIC/IIB is powered by a 10.4 V Ni-MH battery pack containing 8 cells. The EX90L consists of two compartments, a battery with electronic circuit compartment and a LED compartment. The EX90L consists of three printed circuit boards (PCBs), Main PCB located in the battery compartment, LED Driver PCB and LED PCB both located in the LED compartment. The cells are fully encapsulated and the main PCB is partially encapsulated. The interconnection between the main PCB and LED compartment is via a 20 core cable. The EX90L enclosure provides a degree of protection of IP65.

Type designation EX90L T4 IIB 720 DS and EX90L T4 IIB 1440 SS are each with 288 LEDs and type designation EX90L T4 IIC is with 144 LEDs. .

The battery is not intended to be replaced by the user. An AC charging socket and two push button control switches are located on the lower side of the battery compartment. The charger is a SELV device and has maximum output voltage of 12 V and maximum output current of 2 A. The battery can only be charged in the non-hazardous area.

13. Report Number

Intertek Report Ref. G102410923, dated March 2016.

14. Conditions of Certification

(a). Special Conditions for safe use

- The battery shall only be charged in a non-hazardous area by an assessed SELV charger having a maximum output voltage of 12 V and maximum current of 2 A.
- The main enclosure and LED lens enclosure are sprayed with anti-static coating. Care should be taken to avoid rubbing and contact with organic solvent, such as ethanol.

(b). Conditions of Manufacture

- None

15. Essential Health and Safety Requirements (EHSR's)

The relevant EHSR's have been identified and assessed in Intertek Report Ref. G102410923, dated March 2016.

Intertek Testing & Certification Limited
Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB
Tel: + 44 (0)1372 370900 Fax: +44 (0)1372 370977

www.intertek.com

Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ.

This Certificate is the property of Intertek Testing and Certification Ltd and is subject to Intertek Testing and Certification's Conditions for Granting Certification.

SCHEDULE

EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS16ATEX28430X

16. Drawings and Documents

Drawing No:	Rev. Level:	Date:	Title:
YR-11263/1	A/08	2015-03-03	EXIN Light EX90L-T4-IIB Schematic T4-IIB 720 DS, T4-IIB 1440 SS
YR-11263/3	A/06	2015-05-12	EXIN Light EX90L-T4-IIB IIB 720 SS, T4-IIB 1440 DS Bus Mather Board
YR-11263/11	A/07	2015-05-12	Smith Light/EXIN Light EX90L-T4-IIB 720 DS, T4-IIB 1440 SS LED Driver PCB
YR-11263/17	B/05	2015-05-12	Smith Light/EXIN Light EX90L-T4-IIB 720 DS T4-IIB 720 Double Sided LED Board
YR-11275/1 Pages 1-3	B/07	2015-10-08	Smith Light/EXIN Light EX90L-T4-IIB 2x720/1x1440 Bus Mather Board BOM
YR-11275/2	B/08	2015-03-03	2x720/1x1440 LED Driver BOM
YR-11275/3	B/06	2015-03-03	2x720/1x1440 LED Board BOM
YR-11263/2	B/04	2015-03-03	EXIN Light EX90L-T4-IIC Schematic T4-IIC 720 SS
YR-11263/12	B/03	2015-05-12	Smith Light/EXIN Light EX90L-T4-IIC 720 SS T4-IIC 720 Single Sided Bus Mather Board
YR-11263/13	B/03	2015-05-12	Smith Light/EXIN Light EX90L-T4-IIC 720 SS T4-IIC 720 Single Sided LED Drive Board
YR-11263/14	B/03	2015-05-12	Smith Light/EXIN Light EX90L-T4-IIC 720 SS T4-IIC 720 Single Sided LED Board
YR-11274/1	B/08	2015-08-06	Smith Light/EXIN Light EX90L-T4-IIC 720 SS T4-IIC 720 Single Sided Bus Mather Board BOM
YR-11274/2	B/06	2015-03-03	Smith Light/EXIN Light EX90L-T4-IIC 720 SS T4-IIC 720 Single Sided LED Driver BOM
YR-11274/3	B/07	2015-03-03	T4-IIC 720 Single Sided LED Board BOM
YR-11263/7	A/05	2016-02-23	EXIN Light EX90L-T4-IIB/IIC Bus Mather Board Encapsulation Adhesive
YR-11262	B/03	2015-05-12	Smith Light/EXIN Light EX90L-T4-IIC 720 SS T4-IIC720 Single Sided Explosion-proof Scheme
433	A	23/5/14	EXIN Light Battery Connection
674543	-	23/5/14	EXIN Light EX Battery Pack Model EX96B
54677	-	23/5/14	SP15/45 Connectors
YR-11296	A/0	2015-08-06	EXIN Light EX90L Charging Warning Label
YR-11294/3	A03	2016-03-22	EXIN Light EXIN EX90L T4 IIC 720 SS ATEX Label
YR-11294/4	A03	2016-03-22	EXIN Light EXIN EX90L T4 IIB 720 DS ATEX Label
YR-11294/5	A03	2016-03-22	EXIN Light EXIN EX90L T4 IIB 1440 SS ATEX Label

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

Intertek Testing & Certification Limited
Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB
Tel: + 44 (0)1372 370900 Fax: +44 (0)1372 370977
www.intertek.com

Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ.

This Certificate is the property of Intertek Testing and Certification Ltd and is subject to Intertek Testing and Certification's Conditions for Granting Certification.