

	INTERNATIONAL ELECT IEC Certification System for rules and details of the	TROTECHNICAL COMMISSION m for Explosive Atmospheres IECEx Scheme visit www.iecex.com					
Certificate No.:	IECEx EUT 17.0013X	Page 1 of 4	Certificate history:				
Status:	Current	Issue No: 1	Issue 0 (2017-12-14)				
Date of Issue:	2019-12-19						
Applicant:	Zhejiang Tormin Electrical Co., Ltd. No.35 Qingjiang Road, High-tech District, China	Wenzhou, Zhejiang, China					
Equipment:	LED Explosion-proof Light BC9700-L S	eries					
Optional accessory	r.						
Type of Protection:	Flameproof enclosure "d", Dust-tight enclosure "t"						
Marking:	Ex db IIC T5T3 Gb						
	Ex tb IIIC T95°CT195°C Db						
Approved for issue Certification Body:	on behalf of the IECEx	Dionisio Bucchieri					
Position:		Head of IECEx Certification Body					
Signature: (for printed version))						
Date:							
 This certificate a This certificate i The Status and 	and schedule may only be reproduced in full. is not transferable and remains the property of authenticity of this certificate may be verified l	the issuing body. by visiting www.iecex.com or use of this QR Code.					
Certificate issue	ed by:						
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Certificate No.:	IECEx EUT 17.0013X	Page 2 of 4						
Date of issue:	2019-12-19	Issue No: 1						
Manufacturer:	Zhejiang Tormin Electrical Co., Ltd. No.35 Qingjiang Road, High-tech District, Wenzhou, Zhejiang, China China							
Additional manufacturing locations:								
This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended								
STANDARDS : The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards								
IEC 60079-0:2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements							
IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d" Edition:7.0								
IEC 60079-31:2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"							
	This Certificate does not indicate compliance with safety a other than those expressly included in the Stand	nd performance requirements dards listed above.						
TEST & ASSESSMENT REPORTS: A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:								
Test Reports:								
CN/CQM/ExTR17.00	04/00 IT/EUT/ExTR17.0020/00							
Quality Assessment Report:								
CN/CNE/QAR19.0002/00								



Certificate No.: IECEx EUT 17.0013X

Page 3 of 4

Date of issue: 2019-12-19

Issue No: 1

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

BC9700-L series Explosion-proof lighting fixture can be used in environment with presence of explosive gas belonging to group IIC and dust belonging to group IIIC.

The lighting fixture is manufacturer according flameproof and dust-tight protection types.

It consists of two flameproof chamber, one for the illuminant (illuminant chamber) and the other one for power (electrical chamber); o-rings are adopted in the flameproof joints to fulfill the dust-proof requirements. The two chambers are connected with wire, which is encapsulated by epoxy resin. LED modules are installed in illuminant chamber, power supply and terminals are installed in electrical chamber.

The flameproof enclosure consists of main enclosure, front cover, electrical box enclosure, rear cover and transparent part. The enclosure parts are made of aluminum alloy and the light-transmitting part is made of toughened high borosilicate glass.

Explosion-proof light can be supplied complete with cable glands and/or plugs as part of the equipment. Alternatively third-parties certified cable glands or plugs can be used and these have to comply with type of protection Ex db IIC Gb/ Ex tb IIIC Db.

The equipment is designed for an operating temperature range of $-40^{\circ}C \div +40^{\circ}C$ and $-40^{\circ}C \div +55^{\circ}C$ depending on the associated maximum surface temperature as shown below:

Degree of protection provided by enclosure according to JEC 60529 and JEC 60079-0	Туре	Power	Input Voltage	Beam angle	Maximum ambient temperature Vs. Temperature class			
is IP66.					Ta ≤	+ 40°C	Ta≤	: + 55°C
Warnings:	BC9700-L50	50 W	90-305VAC 50Hz/60Hz	40° 60° 80° 100° 60°X 80° 90°X 110°	Т5	T95°C	T4	T130°C
WARNING - DO NOT OPEN WHEN ENERGIZED.	BC9700-L60	60 W			Т5	T95°C	T4	T130°C
WARNING – USE THE CORRECT CABLE AND CABLE ENTRY AS PER	BC9700-L80	80 W			Т5	T95°C	T4	T130°C
	BC9700-L100	100 W			Т4	T130°C	Т4	T130°C
ELECTROSTATIC CHARGING HAZARD – SEE	BC9700-L120	120 W			T4	T130°C	T4	T130°C
WARNING - AFTER DE-	BC9700-L150	150 W			T4	T130°C	T4	T130°C
ENERGIZING, DELAY 15	BC9700-L180	180 W			Т3	T195°C	Т3	T195°C
OPENING.	BC9700-L200	200 W			Т3	T195°C	Т3	T195°C

CAUTION- USE FASTENERS WITH YIELD STRESS ≥ 450MPa.

Routine test:

Each unit shall withstand an overpressure test according to IEC 60079-1 clause 16.1. Refer to ExTR Reference No. CN/CQM/ExTR17.0004/00 for details

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The flameproof joints of the equipment mustn't be repaired.

Use fasteners with yield stress ≥ 450MPa.



Certificate No.: IECEx EUT 17.0013X

Date of issue: 2019-12-19

Page 4 of 4

Issue No: 1

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above) QAR Reference has been updated