

Test Verification of Conformity

On the basis of the referenced test report(s), the sample(s) of the below product has been found to comply with the relevant harmonized standard(s) to the directive(s) listed on this verification at the time the tests were carried out.

Applicant Name & Address : FOSHAN SANMAK LIGHTING CO.,LTD.
Workshop 2(self A zone), "Triangular Pond" Area, South Side Common Road(Local Name) of the Foshan First Ring, Lishui Town, Nanhai District, Foshan City, Guangdong, China

Manufacturer Name & Address : FOSHAN SANMAK LIGHTING CO.,LTD.
Workshop 2(self A zone), "Triangular Pond" Area, South Side Common Road(Local Name) of the Foshan First Ring, Lishui Town, Nanhai District, Foshan City, Guangdong, China

Product(s) Tested : LED Warning Lamp

Ratings and principal characteristics : DC 12V/24V

Model(s) : SM7016

Variants : NA

Brand name : SANMAK

Relevant Standard(s) / Specification(s) / Directive(s) : ISO 20653-2013
Degrees of protection provided by enclosures (IP Code)

Verification Issuing Office Name : Guangzhou Shuntai Quality Technical Service Co.,Ltd

Verification/Report Number(s) : SQT2011015

Note 1 : This verification is part of the full test report(s) and should be read in conjunction with it.



Signature

Name: Cheryl Deng
Position: Technical Supervisor
Date: November 19, 2020

TEST REPORT

Applicant Name & Address : FOSHAN SANMAK LIGHTING CO.,LTD.
Workshop 2(self A zone), "Triangular Pond" Area, South Side Common Road(Local Name) of the Foshan First Ring, Lishui Town, Nanhai District, Foshan City, Guangdong, China

Manufacturer Name & Address : FOSHAN SANMAK LIGHTING CO.,LTD.
Workshop 2(self A zone), "Triangular Pond" Area, South Side Common Road(Local Name) of the Foshan First Ring, Lishui Town, Nanhai District, Foshan City, Guangdong, China

Sample Description
Product : LED Warning Lamp
Model No. : SM7016
Variants : NA
Electrical Rating : DC 12V/24V
Brand name : SANMAK

Date Received : November 04, 2020
Date Test Conducted : November 05, 2020
Report Number : SQT2011015
Test Laboratory : Guangzhou Shuntai Quality Technology Service Co.,Ltd.

Test Items : IP 6K9K
Test standards : ISO 20653-2013

Test Result : Pass

Conclusion : The submitted samples complied with the above standards.


Remark : This test is only responsible for incoming samples, and the report is only valid for this test.

Prepared and Checked by:

Lily Li
Lily Li
Project Engineer

2020.11.19 Date

Approved by:


Cheryl Deng
Technical Supervisor

2020.11.19 Date

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1**TEST RESULTS SUMMARY**

Classification of EUT: Components and modules

Test Item	Standard	Result
IP 6K9K	ISO 20653-2013	Pass

Remark:

1. The symbol “N/A” in above table means Not Applicable.
2. When determining the test results, measurement uncertainty of tests has been considered.

RESULTS CONCLUSION

(with Justification)

We tested the sample to determine if it was in compliance with the relevant ISO standards as marked on the Test Results Summary. We found that the unit met the requirement of ISO 20653-2013 when tested as received. The worst case's test data was presented in this test report.

Model: SM7016

The production units are required to conform to the initial sample as received when the units are placed on the market.

LABORATORY MEASUREMENTS

Sample	Model	Quantity	Sample No.
LED Warning Lamp	SM7016	2	1#, 2#
Appearance of sample	Shape: Square/Round/Irregular/Others		
	Color: Monochrome/Multicolor/others		
	Type: Mini/Small/Small and medium/Medium/Large		
Sample component and accessories	Components: /	Accessories: /	
Rated voltage	12V/24V		
Packing status	Outer packing / No packing		
Sample quality before test	Conformity product/ Non-conformity product /Prototype/Others		
Abnormal condition of sample before test	/		
Environment condition	Temperature:(22.9-23.9) °C Relative humidity: (54-57)%		

TEST ITEM AND RESULTS

4.1 IP6K test

4.1.1 Test conditions

Test standard: ISO 20653-2013

IP6K (Protection against access to hazardous parts) test conditions:

The sample was subjected to a metal protection test using a metal probe having a diameter of 1.0 mm.

IP6K (Protection against solid foreign objects) test conditions:

Dust: Arizona powder.

Dust concentration: 2kg/m³;

Test time: 6s movement of the air/dust mixture, 15 min break, 20 such cycles shall be performed.

IPX9K test conditions:

The sample is set up speed (5±1)r/min spray at 0°,30°,60°,90°

Distance: (100 to 150) mm;

Water flow rate: (14 to 16) L/min;

Water pressure: approx.(8000 to 10000) kPa;

Water temperature: (80±5)°C;

Exposure time: 30s per position.

4.1.2 Sample description and quantity

Please refer to Table 1 for Sample description and quantity:

Table 1 Sample description and quantity

Sample	Model	Quantity
LED Warning Lamp	SM7016	1
LED Warning Lamp	SM7016 With bracket	1

4.1.3 Test requirement

IP6K (Protection against access to hazardous parts):

The probe with a diameter of 1.0 mm does not enter the specimen case.

IP6K (Protection against solid foreign objects): Dust shall not penetrate.

IPX9K test: No water enters the inside of the sample

4.2 Test result

The IP 6K9K test results are shown as below

IP6K (Protection against access to hazardous parts)

The probe with a diameter of 1.0 mm does not enter the specimen enclosure and adequate clearance shall be kept.	CORRECT
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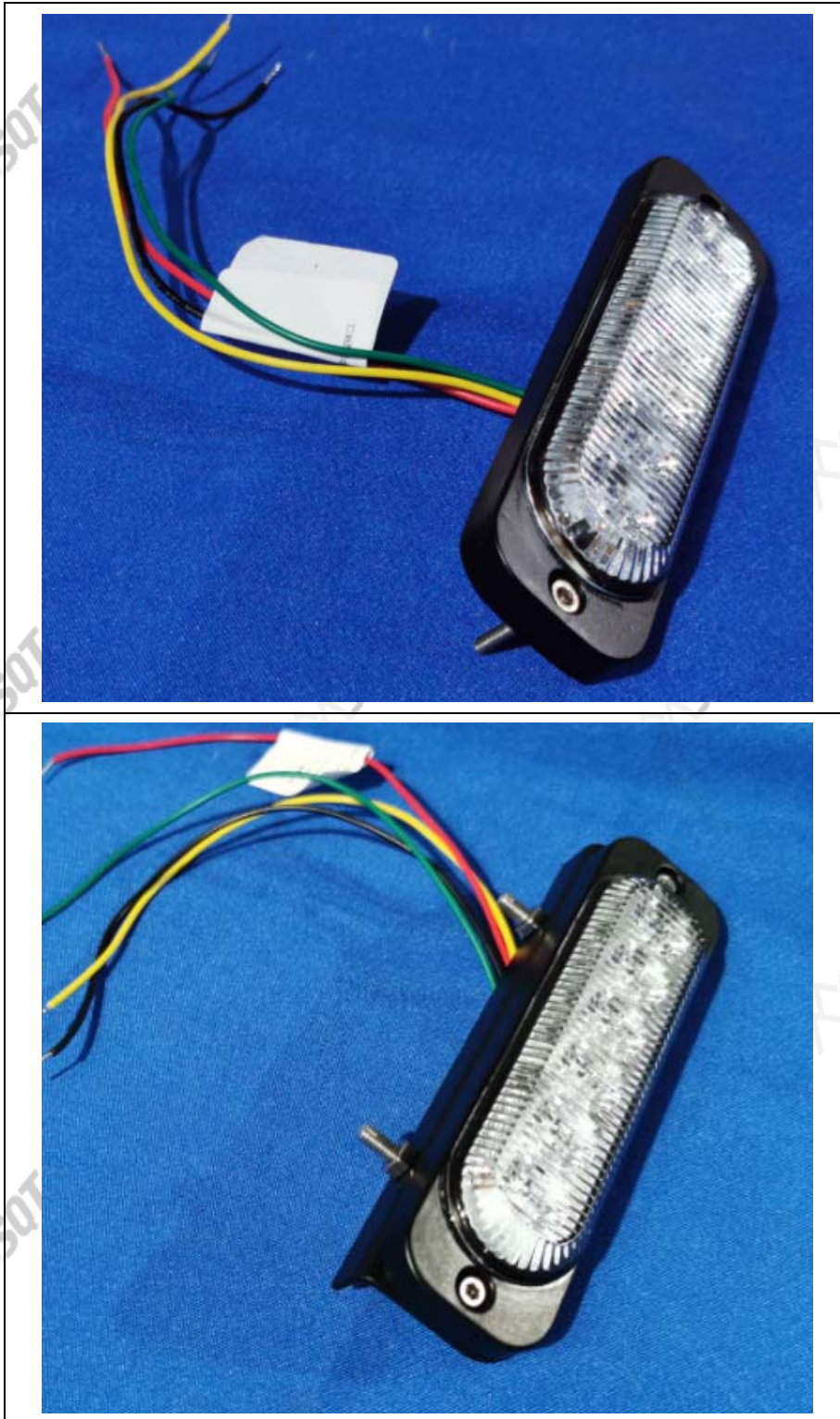
IP6K (Protection against solid foreign objects)

After the test, the protection is satisfactory, no dust is observable inside the enclosure, the function is normal.	CORRECT
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IPX9K test

After the waterproof test, there is no water inside the sample, the function is normal.	CORRECT
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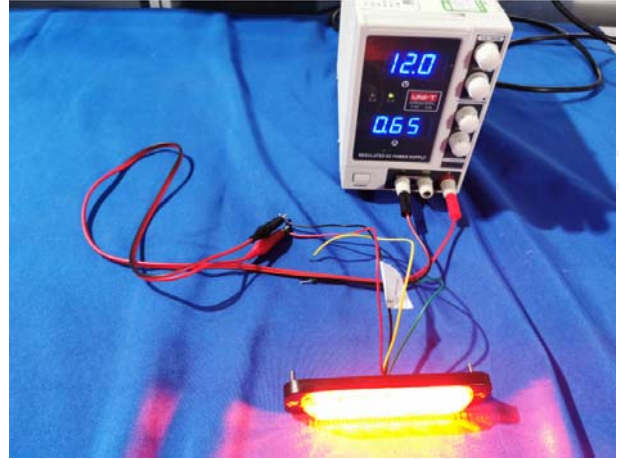
Appendix I –SAMPLE PHOTOS



Appendix II-Test SETUP PHOTOS

IP6K test

Before test



Testing

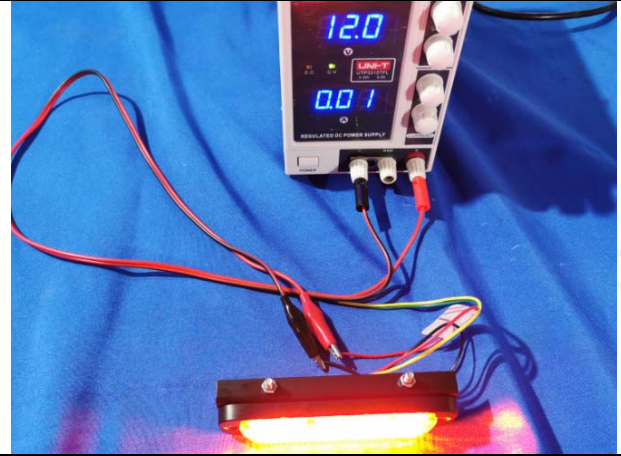


After test



IPX9K test

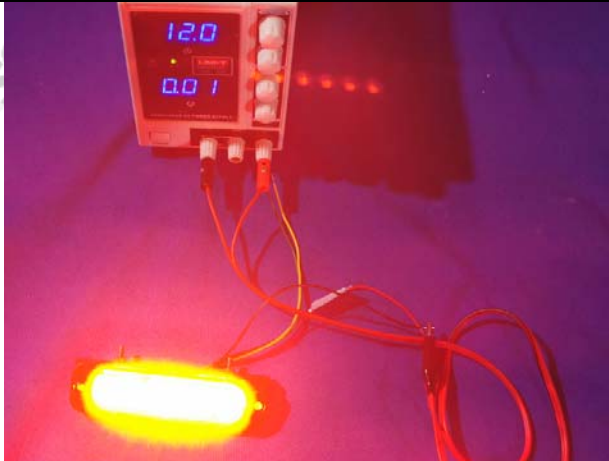
Before test



Testing



After test



Statement

1. The report is invalid without "special stamp for inspection and testing".
2. Failure to affix "special seal for inspection and testing" to the copy report is invalid, and some copies are invalid.
3. The report is invalid without the signature and seal of the person preparing, reviewing and approving it.
4. The report is invalid if altered.
5. If there is any objection concerning the report, please inform us within 15 days from the date of receiving the report
6. This test is only responsible for incoming samples, and the report is only valid for this test.

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