

TEST REPORT

No. : SHMR250601197002-1

Date : Aug 13, 2025

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CUSTOMER NAME: Shanghai Hongbo Electric Co., Ltd.
ADDRESS: ROOM 320, BUILDING 9, NO. 1236 PINGFU ROAD, LINGANG NEW ZONE, PILOT FREETRADE ZONE SHANGHAI CHINA

Sample Name : Push Button Switch
Model No : GQ12B
Client reference : HBDGQ12B,HBGQ12B
information

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

SGS Ref. No. : SHP25-016732
Date of Receipt : May 27, 2025
Testing Start Date : May 27, 2025
Testing End Date : Jun 05, 2025
Test result(s) : For further details, please refer to the following page(s)
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for
SGS-CSTC Standards Technical
Services (Shanghai) Co., Ltd.

Sunny Tan
Authorized signatory



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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	IPX8	IEC 60529:1989+A1:1999+A2:2013+ COR1:2019	No water ingress	Pass
2	IP6X	IEC 60529:1989+A1:1999+A2:2013+ COR1:2019 and client's requirement	No dust ingress	Pass

Note: Pass : Meet the requirements;
Fail : Does not meet the requirements;
/ : Not Apply to the judgment.



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1. Test Item: IPX8

Sample Description: B-Finished part

Test Method: IEC 60529:1989+A1:1999+A2:2013+COR1:2019

Test Condition:

Test water depth: 1 m

Test duration: 1 h

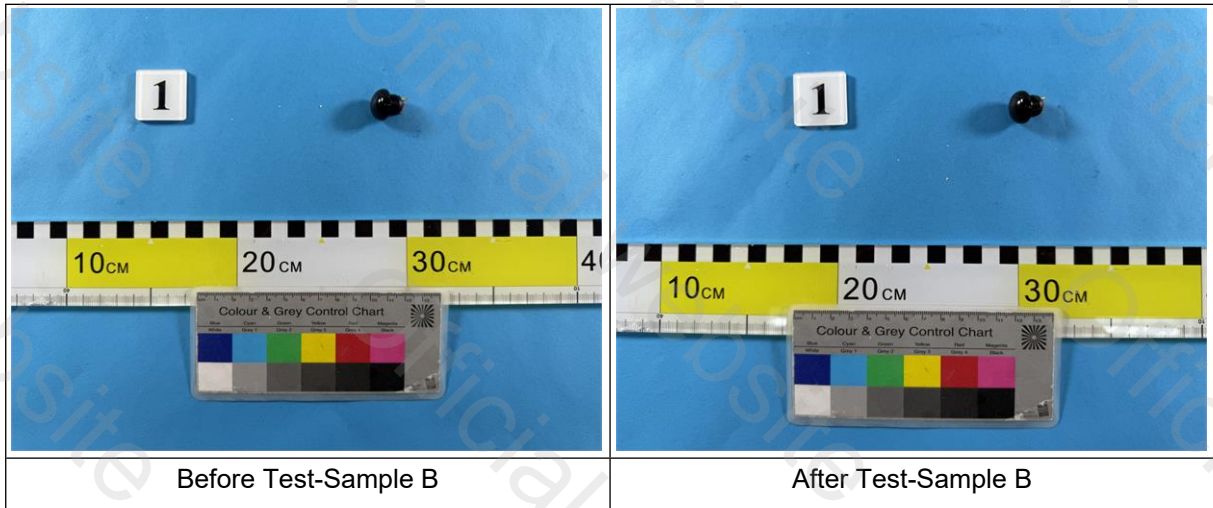
Lab Environmental Condition: 18 °C - 28 °C, 25 %RH - 75 %RH

Test Result:

Sample B

Specimen No.	Test result	Test requirement	Conclusion
1	No water ingress	No water ingress	Pass

Test Photo:



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Check close-up after test-Sample A

Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Immersion container	1500mm	P-945	2024-12-03	2025-12-02



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2. Test Item: IP6X

Sample Description: B-Finished part

Test Method: IEC 60529:1989+A1:1999+A2:2013+COR1:2019 and client's requirement

Client's Requirement: Do not draw negative pressure

Test Condition:

Test dust: Talcum powder

Dust concentration: 2 kg/m³ and suspended during the test

Test duration: 8 h

Lab Environmental Condition: 18 °C - 28 °C, 25 %RH - 75 %RH

Test Result:

Sample B

Specimen No.	Test result	Test requirement	Conclusion
1	No dust ingress	No dust ingress	Pass

Test Photo:



During Test 1-Sample B



During Test 2-Sample B



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<p>Before Test-Sample B</p>	<p>After Test-Sample B</p>
	<p>/</p>
<p>Check close-up after test-Sample B</p>	<p>/</p>



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Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Dust test chamber	TK6070iQ	P-614	2024-07-30	2025-07-29

Appendix information:

*Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.

*The test report shall only be used for client scientific research, teaching, internal quality control, product research and development, etc. and just for client internal reference.

*This test report is an additional version of the original report No.: SHMR250501106702-1. The customer name and address have been modified, and the original report is valid.

*This test report supersedes the test report No. SHMR250601197002, the original report will be invalid from today. This test report updates home page information.

***** End of report*****

