

JCT LTD.  
 1F., NO. 2, LN. 99, JINXUE RD., WENZHENG VIL.,  
 SHANHUA DIST., TAINAN CITY 741011, TAIWAN

The following merchandise was submitted and identified by the vendor as:

Product Description: JCT smart electronic lock  
Style/ Item No.: Style 1/ No.1  
Manufacturer/Vendor: DONGGUAN HONGTAI Electronics CO., LTD.  
Quantity: Total 1 piece  
Testing Period: Aug. 1, 2025 to Aug. 4, 2025

We have tested the submitted sample(s) as requested and the following results were obtained:

Test Required:

Test for Degrees of Protection Provided by Enclosures (IEC 60529 Edition 2.2: 2013)

IP Code	IP55
<b>First characteristic numeral</b>	Degrees of protection against access to hazardous parts and against solid foreign objects
<b>Second characteristic numeral</b>	Degrees of protection against ingress of water

Test Results:

Conclusion
Submittals sample(s) comply with the requirement and acceptance conditions of IEC 60529 Edition 2.2: 2013 Degrees of Protection Provided by Enclosures -- IP55 The detailed description of test result, please see attached sheet(s).

Signed for and on behalf of  
 SGS TAIWAN Ltd.

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Test for Degrees of Protection Provided by Enclosures:

Test Equipment:

Name	Brand	Model	Serial No.
1.0 mm Test Wire Probe	Asia Qtech	TRP-2	3041604
Digital Force Gauge	ALGOL	HF-10	HF-111855
Dust Tester	CHTEK	CH-7139-CF-20	39-CFS130301
Standard rain tester	CHTEK	CH-2010-S6	F43L6024
Microprocessor Thermometer	TES	TES-1314	230304729

Lab Environmental Conditions:

Ambient temperature: (15 ~ 35)°C  
 Ambient humidity: (25 ~ 75) % RH  
 Ambient pressure: (86~106) kPa

Test Location: No. 19-3, Zhonghua Rd., Xinshi Dist., Tainan City, Taiwan

Test Method/ Specification:

Test method: IEC 60529 Edition 2.2: 2013 --IP55

**1. Test for protection against access to hazardous parts:**

Test method: The test wire with 1.0 mm in diameter and 100 mm long is pushed against or inserted through any openings of the enclosure with designated force. Examine whether the test wire touches the hazardous live parts inside the enclosure or not.

Test force: 1 N±10 %

**2. Test for protection against solid foreign objects:**

Test method: Dust test  
 Sample condition: Non-Operating  
 Category of enclosure : Category 2  
 Type of dust: Talcum powder  
 The amount of dust: 2 kg per cubic meter of the chamber volume  
 Test duration: 8 hours

- Examine the protection against ingress dust of specimen(s) (power control gear) and function check after this test.
- Functional Check: Connect the specimen(s) with rated power to examine whether the unlock function could work normally or not.

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Test Method/ Specification--Continued:

**3. Test for protection against water:**

Sample condition: Non-Operating

Test means: Spraying the enclosure from all practicable directions with a stream of water from a standard test nozzle as specified in test standard.

Internal diameter of the nozzle:

6.3 mm

Delivery rate:

12.5 l/minute ±5%

Distance from nozzle to enclosure surface:

between 2.5 m and 3 m

Core of the substantial stream:

circle of approximately 40 mm diameter at 2.5 m distance from nozzle

Test duration:

3 minutes (Front face)

- Examine the protection against ingress water of specimen(s) (power control gear) and function check after this test.
- Functional Check: Connect the specimen(s) with rated power to examine whether the unlock function could work normally or not.

# TEST REPORT

Specimen:

Style/ Item No.: Style 1/ No.1

Quantity: Total 1 piece

Test Result:

A. Degrees of protection against access to hazardous parts and against solid foreign objects (IP5X)

A-1 Test for protection against access to hazardous parts (IP5X)

Test Result		
Check Item		Style/ Item No.
		Style 1/ No.1
1	Does the test wire penetrate any openings of the enclosure?	No
2	(followed check item 1) If the test wire penetrates any openings of the enclosure, does the test wire touch any hazardous live parts or any hazardous mechanical parts?	N/A
3	(followed check item 2) Does adequate clearance be kept between the test wire and hazardous live parts or hazardous mechanical parts?	N/A

Note 1: N/A means "Not Applicable".  
 Note 2: The check items in this test report for inspecting the degree of protection provided by enclosures are reference to the requirements specified in IEC 60529 Edition 2.2: 2013 and in accordance with the acceptance conditions specified by client.

A-2 Test for protection against solid foreign objects (IP5X)

Test Result		
Check Item		Style/ Item No.
		Style 1/ No.1
1	Does any dust deposit inside the enclosure?	No
2	Functional check	Normal

Note 1: N/A means "Not Applicable".  
 Note 2: The check items in this test report for inspecting the degree of protection provided by enclosures are reference to the requirements specified in IEC 60529 Edition 2.2: 2013 and in accordance with the acceptance conditions specified by client.

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# TEST REPORT

Test Result--Continued:





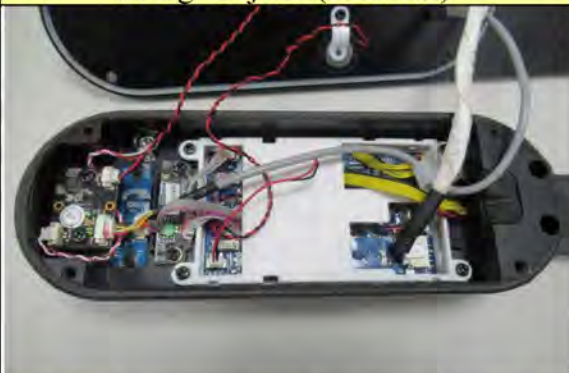

B. Degree of protection against ingress of water (IPX5)

Test Result		
Check Item	Style/ Item No.	
	Style 1/ No.1	
1	Does any water enter the enclosure?	No
2	(followed check item 1) If any water has entered, does the water accumulate near the cable end or live parts?	N/A
2.1	(followed check item 2) Does the water be sufficient to interfere with the correct operation of the equipment or impair safety?	N/A
2.2	(followed check item 2.1) Does the water deposit on insulation parts where it could lead to tracking along the creepage distances?	N/A
2.3	(followed check item 2.2) Does the water reach live parts or windings not designed to operate when wet?	N/A
3	Functional check	Normal

Note 1: N/A means "Not Applicable".  
 Note 2: The check items in this test report for inspecting the degree of protection provided by enclosures are reference to the requirements specified in IEC 60529 Edition 2.2: 2013 and in accordance with the acceptance conditions specified by client.

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Test Photos:

	
1. Appearance of specimen	2. Appearance of specimen
	
3. Test for protection against solid foreign objects (Dust test)	4. Test for protection against water
	
5. Appearance of specimen (power control gear) after test	6. Function check of specimen after test

— — — The End of Test Report — — —

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