

TEST REPORT

Kunde: Client:	Foshan City Shunde District Oukai Electrical Technology Co.,LTD
Adresse: Address:	No 8, Huakou Huafa Rd, Ronggui Town, Shunde District, Foshan City, Guangdong Province, China
Hersteller: Manufacturer:	Foshan City Shunde District Oukai Electrical Technology Co.,LTD
Adresse: Address:	No 8, Huakou Huafa Rd, Ronggui Town, Shunde District, Foshan City, Guangdong Province, China
Name der Marke: Brand Name:	GOKDA
Beschreibung des Produkts: Product Description:	Imitation ecological mosquito control system
Modelle: Models:	H-X3(APP), H-X3
Bewertung: Rating:	AC110-240V, 50/60Hz, 8-12W
Gegenstand der Prüfung: Test item:	IPX4 Test
Verfahren: Method:	IEC 60529:1989+A1:1999+A2:2013
Prüfergebnis*: Test result*:	Pass

Wareneingangsdatum: Date of sample receipt:	Datum der Prüfung: Date of Test:	Datum der Emission: Date of Issue:	Klassifizierung: Classification:
2025/9/11	2025/9/11	2025/9/12	Commission Test

Prüflabor (Testlabor) / Testing Laboratory:

Shenzhen Southern LCS Compliance Testing Co., Ltd.
 Room 101-201, Building 39, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, Guangdong, China

Test von/Test by: <u>Rose Cao</u> Rose Cao/ Project Engineer	Check von/Check by: <u>Torres He</u> Torres He/ Director	Genehmigt von/Approved by: <u>Jesse Liu</u> Jesse Liu/ Manager
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Modified Information

Version	Report No.	Revision Date	Summary
V1.0	LCSB08195030S	/	Original Version

General product information:

- All models are identical except for the model name.
- Unless otherwise specified, the model H-X3(APP) was chosen as representative model to perform all tests.

Equipment used during test:

ID Number	Instrument	Model/ Type	Calibration Date
SLCS-S-033	Spatter/rush showering equipment	BL	2024/12/14
SLCS-E-027	Temperature and humidity barometer	/	2025/4/22
SLCS-S-011	J Thermocouple	J	2025/4/28
SLCS-S-029	Temperature recorder	34970A	2025/4/30



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Test Item:

Test for second characteristic numeral 4 with oscillating tube or spray nozzle

Atmospheric conditions for water or dust tests:

Air pressure: 86 kPa to 106 kPa

Temperature range: 15°C to 35°C

Relative humidity: 25 %RH to 75 %RH

Test samples:

Clean and new samples were tested.

Test Method:

The test is made using one of the two test devices described in figure 4 and in figure 5 in accordance with the relevant product standard.

a) Conditions when using the test device as in figure 4 (oscillating tube): The oscillating tube has spray holes over the whole 180° of the semicircle. The total flow rate is adjusted as specified in table 9 and is measured with a flow meter. The tube is caused to oscillate through an angle of almost 360°, 180° on either side of the vertical, the time for one complete oscillation (2 × 360°) being about 12 s. The duration of the test is 10 min.

If not specified otherwise in the relevant product standard, the support for the enclosure under test is perforated so as to avoid acting as a baffle and the enclosure is sprayed from every direction by oscillating the tube to the limit of its travel in each direction.

b) Conditions when using the test device as in figure 5 (spray nozzle):

The counterbalanced shield is removed from the spray nozzle and the enclosure is sprayed from all practicable directions.

The rate of water flow and the spraying time per unit area are as specified in 14.2.3(table 9).

Acceptance Conditions:

It is the responsibility of the relevant Technical Committee to specify the amount of water which may be allowed to enter the enclosure and the details of a dielectric strength test, if any. In general, if any water has entered, it shall not:

- be sufficient to interfere with the correct operation of the equipment or impair safety;
- deposit on insulation parts where it could lead to tracking along the creepage distances;
- reach live parts or windings not designed to operate when wet;
- accumulate near the cable end or enter the cable if any.

If the enclosure is provided with drain-holes, it should be proved by inspection that any water which enters does not accumulate and that it drains away without doing any harm to the equipment.

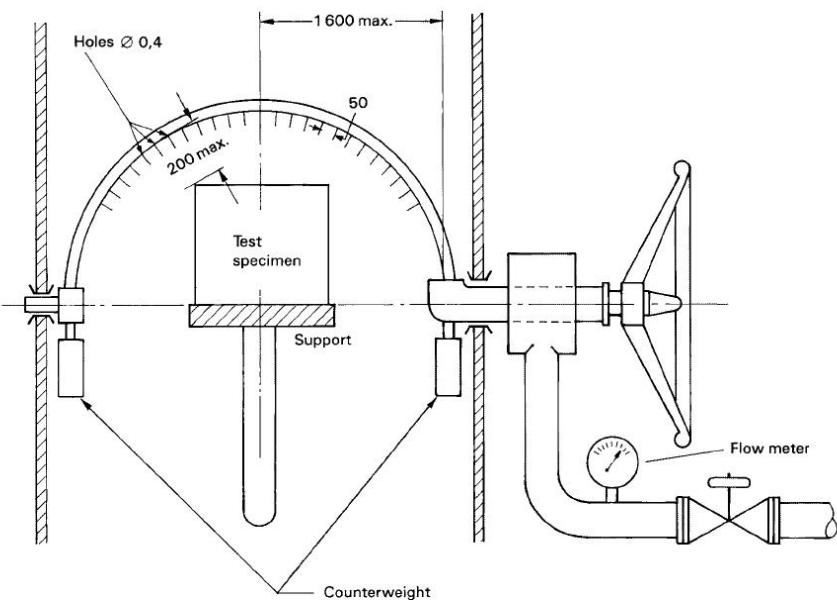
For enclosures without drain-holes, the relevant product standard shall specify the acceptance conditions if water can accumulate to reach live parts.

Test Result:

Pass Fail



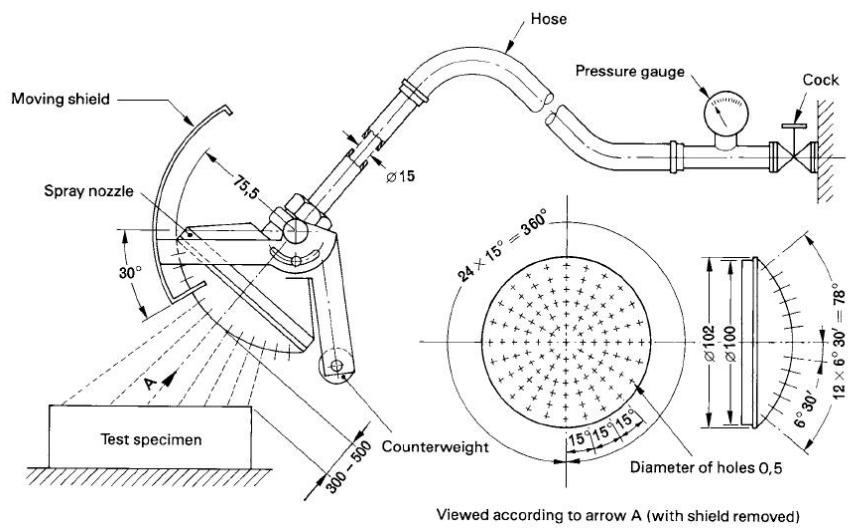
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Dimensions in millimetres

NOTE The range of holes is shown as for second characteristic numeral 3 (see 14.2.3 a)).

Figure 4 – Test device to verify protection against spraying and splashing water; second characteristic numerals 3 and 4 (oscillating tube)



Dimensions in millimetres

- 121 holes of $\varnothing 0,5$;
- 1 hole at the centre
- 2 inner circles of 12 holes at 30° pitch
- 4 outer circles of 24 holes at 15° pitch

Moving shield – Aluminium
Spray nozzle – Brass

Figure 5 – Hand-held device to verify protection against spraying and splashing water; second characteristic numerals 3 and 4 (spray nozzle)



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Table 9 – Total water flow rate q_v under IPX3 and IPX4 test conditions –
Mean flow rate per hole $q_{v1} = 0,07 \text{ l/min}$

Tube radius <i>R</i> mm	Degree IPX3		Degree IPX4	
	Number of open holes <i>N</i> ¹⁾	Total water flow q_v l/min	Number of open holes <i>N</i> ¹⁾	Total water flow q_v l/min
200	8	0,56	12	0,84
400	16	1,1	25	1,8
600	25	1,8	37	2,6
800	33	2,3	50	3,5
1 000	41	2,9	62	4,3
1 200	50	3,5	75	5,3
1 400	58	4,1	87	6,1
1 600	67	4,7	100	7,0

1) Depending on the actual arrangement of the hole centres at the specified distance, the number of open holes *N* may be increased by 1.



Photo Documentation:

Photo 1: Overall view of model H-X3(APP)



Photo 2: Overall view of model H-X3(APP)



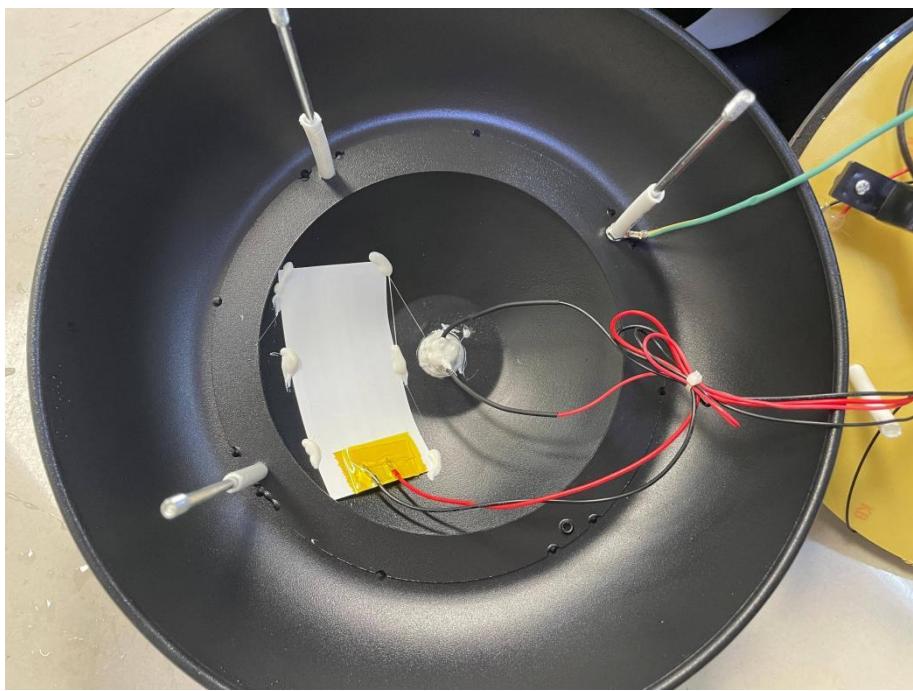
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Photo Documentation:

Photo 3: IPX4 test of model H-X3(APP)

**Photo Documentation:**

Photo 4: Test result of IPX4 test



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Photo 5: Test result of IPX4 test

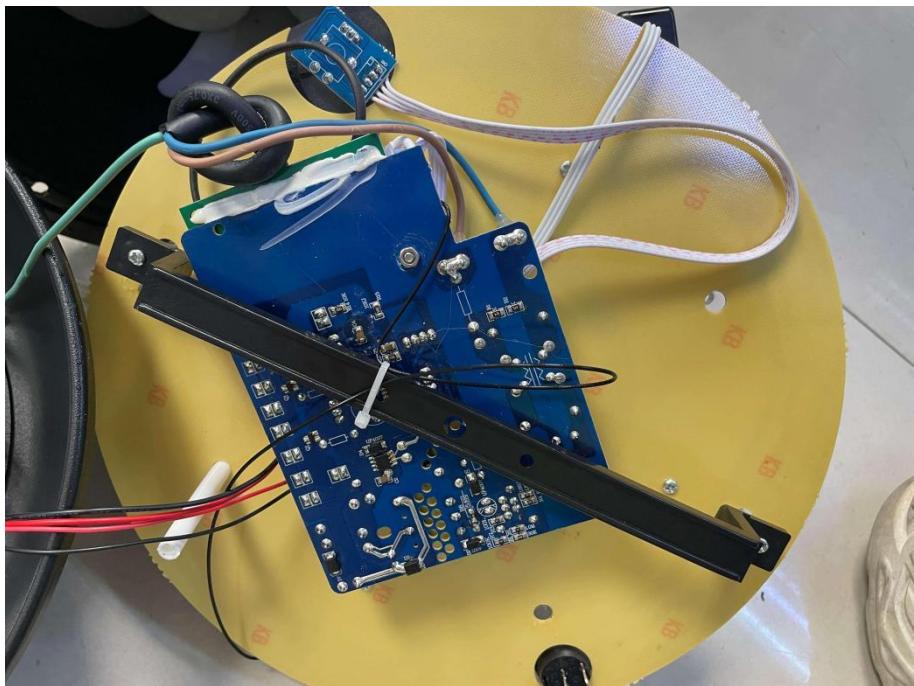
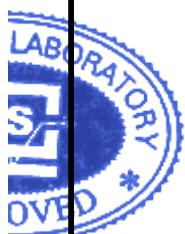
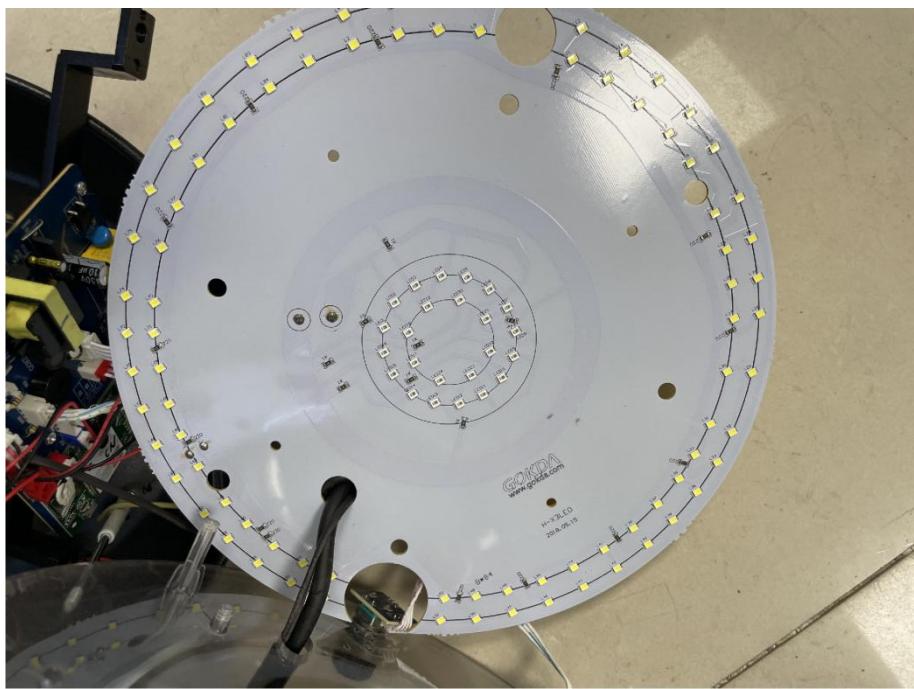


Photo 6: Test result of IPX4 test



----- End of Test Report-----



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