

TEST REPORT



DEKRA IST Reliability Services Limited
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Report Issue Date: June 11, 2026
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Test Report No. : DK2605200010A

Customer : STANDEXMEDER ELECTRONICS(SHANGHAI) CO.LTD
Customer's address : Building No.2, No.2960 Shengang Rd Songjiang District, Shanghai 201612 China
Product : Sensor
Model : MK36/0-1A-300W
MK37/0-1A-300W
MK37/0-1B-300W
MK38/0-1A66B-300W
MK38/0-1B90C-300W
MK38/0-1C90C-300W
MK38/0-1A85C-300W
Quantities : 35 pcs (5 pcs per model)
Sample receive date : 2026/5/26
Test Period : 2026/5/26~2026/5/27
Test Method : Refer to test condition
Result : Pass
Update : /

Signed for and on behalf of
DEKRA IST Reliability Services Limited

Approver

Reviewer

Engineer

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TEST RESULT

No.	Test Item	DEKRA Sample No.	Sample Model	Test Date	Test Result
1	IP6X	DK2605200010A-1~5	MK36/0-1A-300W	2026/5/26	Pass
		DK2605200010A-6~10	MK37/0-1A-300W		Pass
		DK2605200010A-11~15	MK37/0-1B-300W		Pass
		DK2605200010A-16~20	MK38/0-1A85C-300W		Pass
		DK2605200010A-21~25	MK38/0-1B90C-300W		Pass
		DK2605200010A-26~30	MK38/0-1C90C-300W		Pass
		DK2605200010A-31~35	MK38/0-1A66B-300W		Pass
2	IPX7	DK2605200010A-1~5	MK36/0-1A-300W	2026/5/27	Pass
		DK2605200010A-6~10	MK37/0-1A-300W		Pass
		DK2605200010A-11~15	MK37/0-1B-300W		Pass
		DK2605200010A-16~20	MK38/0-1A85C-300W		Pass
		DK2605200010A-21~25	MK38/0-1B90C-300W		Pass
		DK2605200010A-26~30	MK38/0-1C90C-300W		Pass
		DK2605200010A-31~35	MK38/0-1A66B-300W		Pass

1. IP6X

REFERENCE DOCUMENT AND ADDITIONS TO, DEVIATIONS, OR EXCLUSIONS FROM THE METHODS

The test referred to IEC 60529:2013.

CRITERION FOR RESULT

After test, no dust enters the interior of the sample. (Check the interior of the terminal hole)

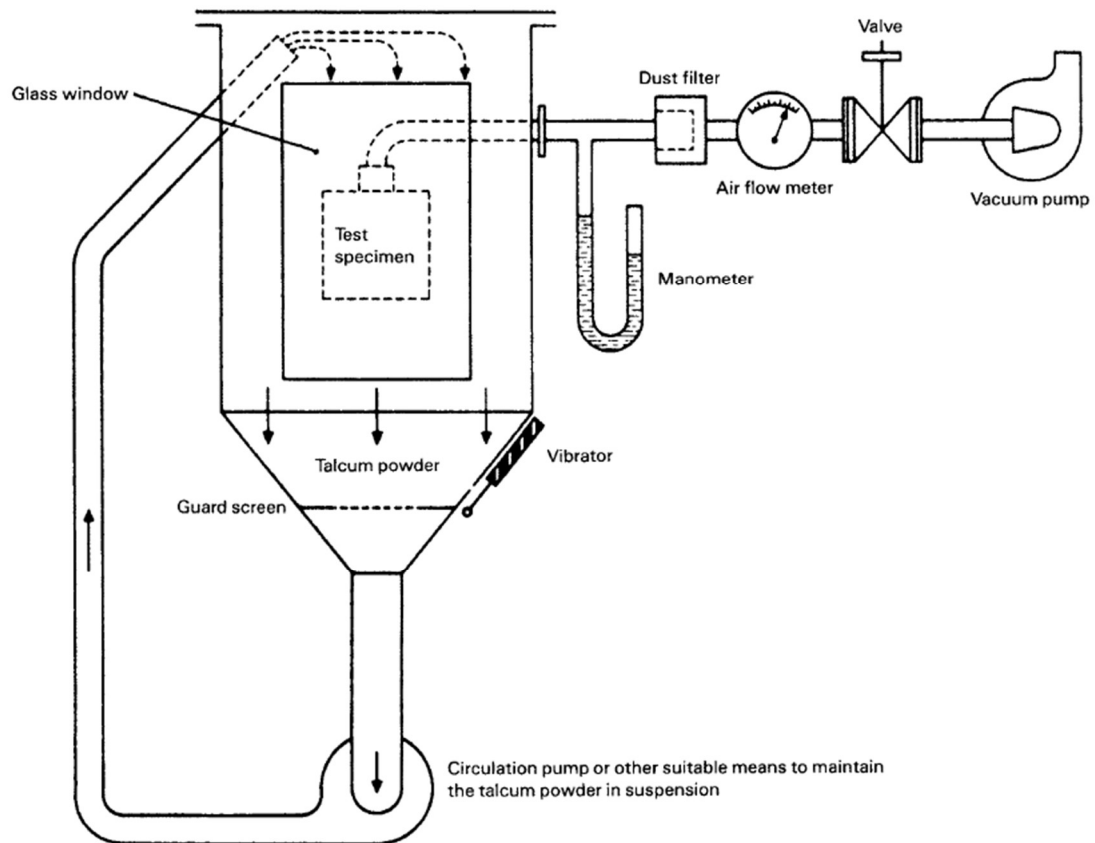
TEST CONDITION

Dust material: Talcum powder

Dust density: Approximately 2kg/m^3

Duration of exposure: 8 hours

Test device:



LABORATORY AMBIENCE CONDITION

Temperature: $18^{\circ}\text{C}\sim 28^{\circ}\text{C}$

Humidity: $25\%\text{RH}\sim 75\%\text{RH}$

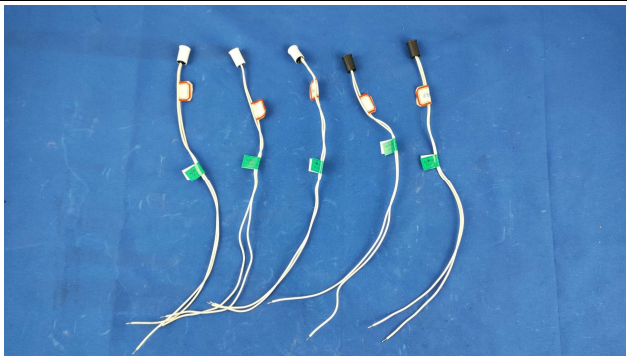
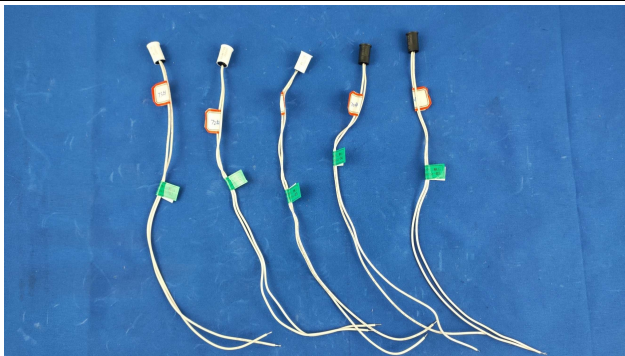
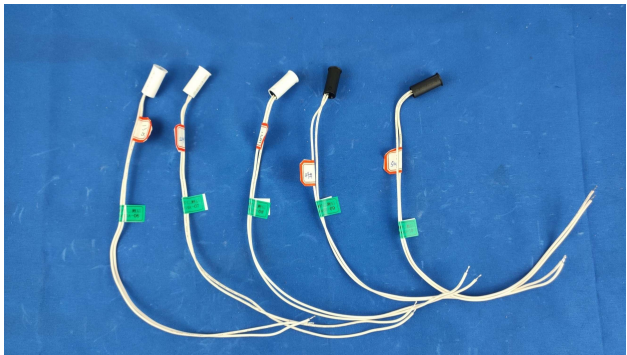
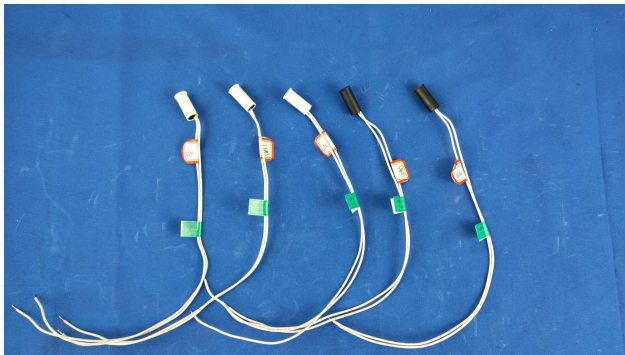
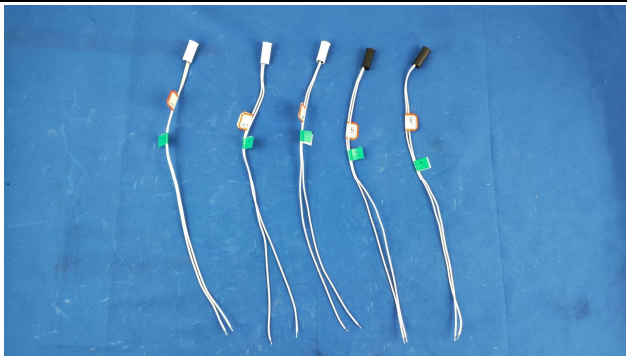
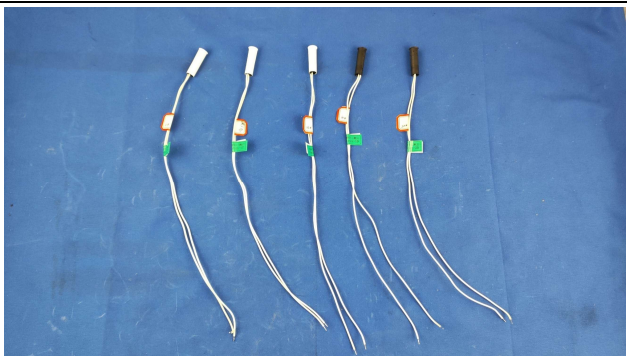
DESCRIPTION OF TEST EQUIPMENT

EQUIPMENT	MODEL	NUMBER	EXPIRATION DATE
Dust Test Equipment	VDT 1000A	RA-05	2027/4/24

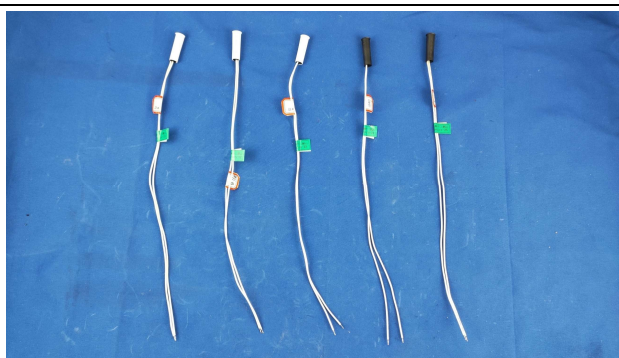
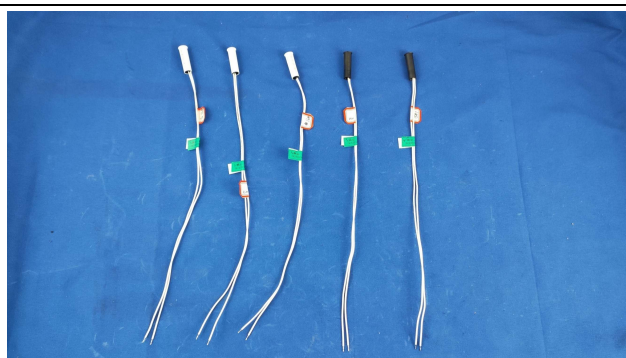
TEST RESULT

DEKRA Sample No.	Test Result	Conclusion
DK2605200010A-1~5	After test, the appearance of the sample is normal. No dust ingress the interior of the terminal hole.	Pass
DK2605200010A-6~10	After test, the appearance of the sample is normal. No dust ingress the interior of the terminal hole.	Pass
DK2605200010A-11~15	After test, the appearance of the sample is normal. No dust ingress the interior of the terminal hole.	Pass
DK2605200010A-16~20	After test, the appearance of the sample is normal. No dust ingress the interior of the terminal hole.	Pass
DK2605200010A-21~25	After test, the appearance of the sample is normal. No dust ingress the interior of the terminal hole.	Pass
DK2605200010A-26~30	After test, the appearance of the sample is normal. No dust ingress the interior of the terminal hole.	Pass
DK2605200010A-31~35	After test, the appearance of the sample is normal. No dust ingress the interior of the terminal hole.	Pass
Criterion for result	After test, no dust enters the interior of the sample. (Check the interior of the terminal hole)	

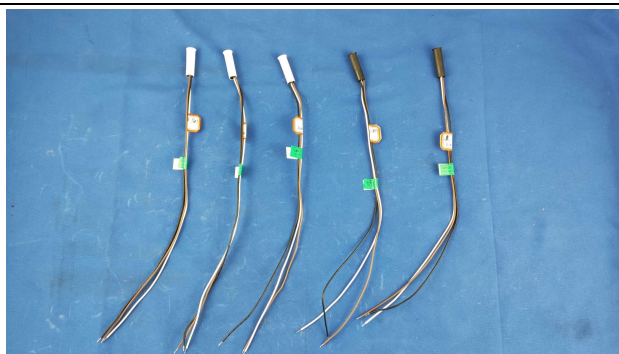
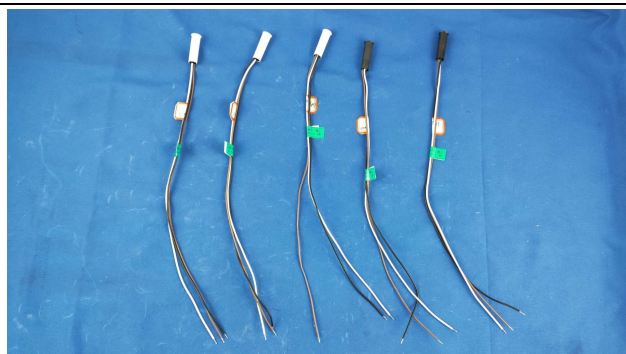
PHOTOS OF SAMPLES AND TEST

Before test	
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DK2605200010A-6~10	
	
DK2605200010A-11~15	
	
DK2605200010A-16~20	
	

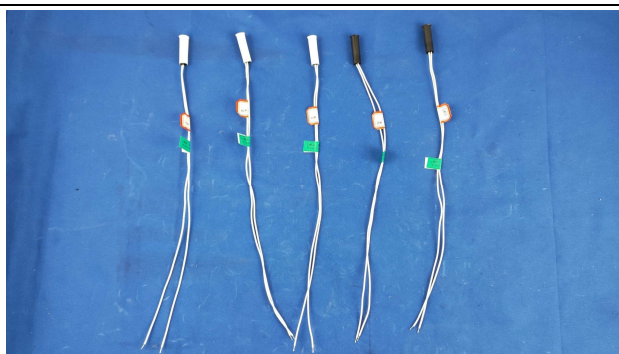
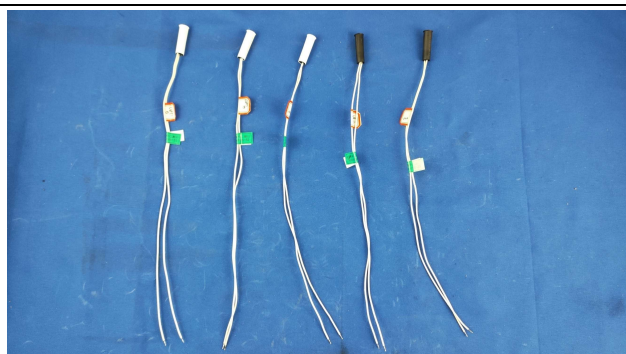
DK2605200010A-21~25



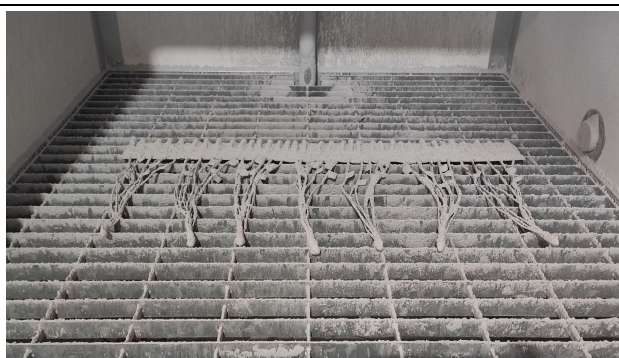
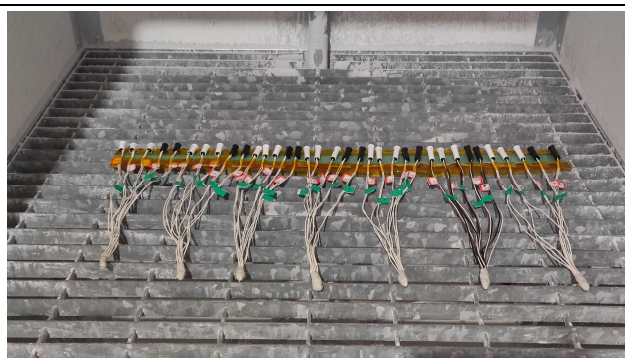
DK2605200010A-26~30



DK2605200010A-31~35

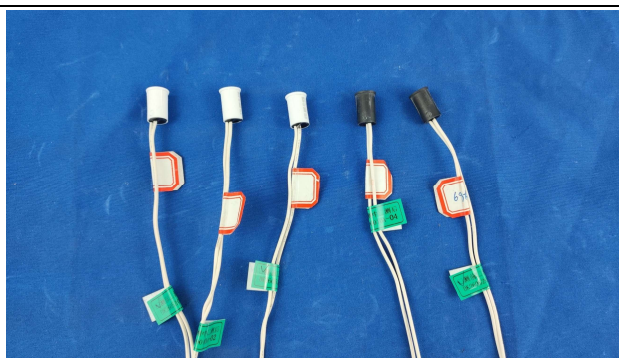
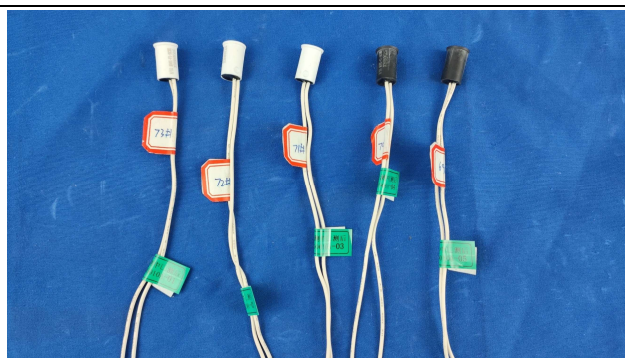


Test setup

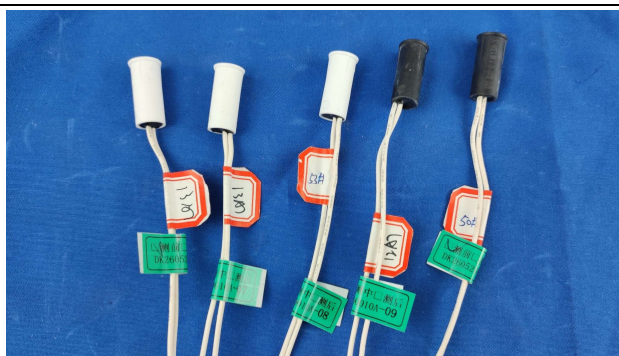
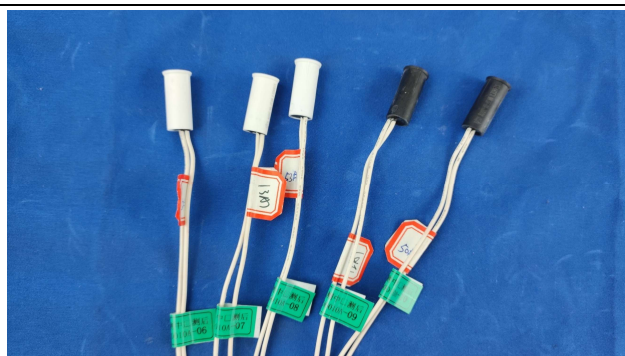


After test

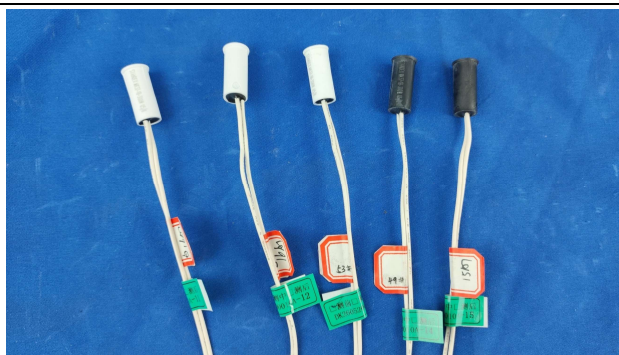
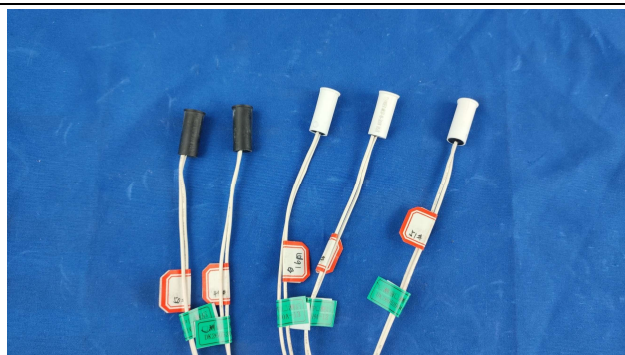
DK2605200010A-1~5



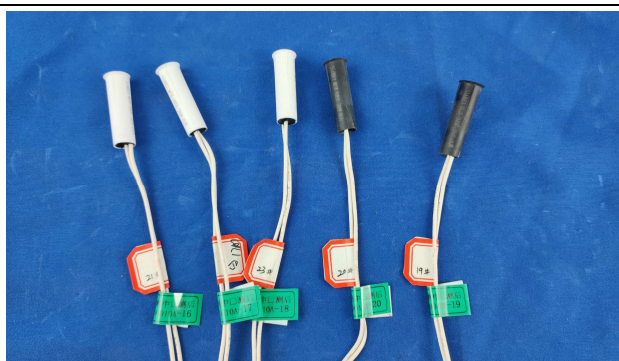
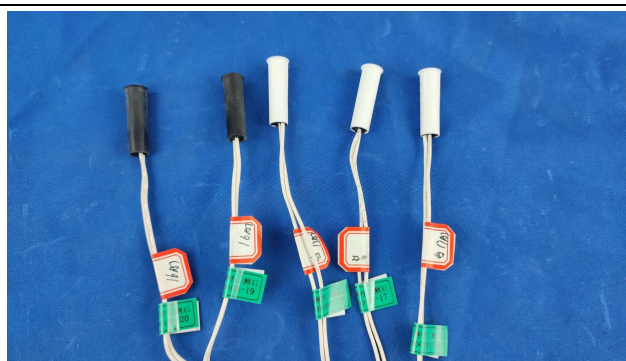
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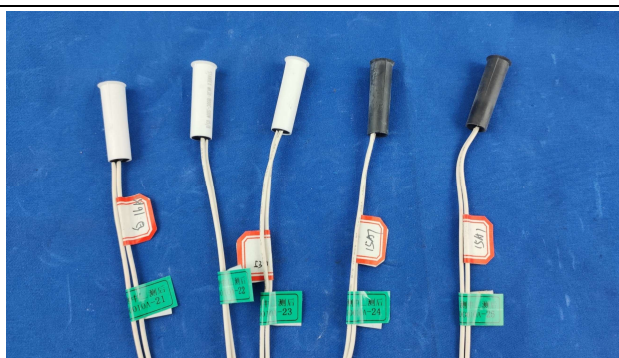
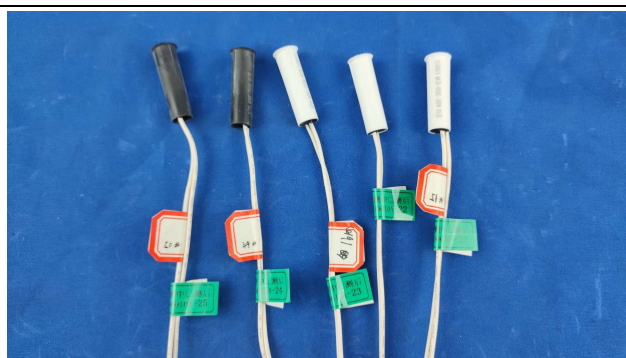
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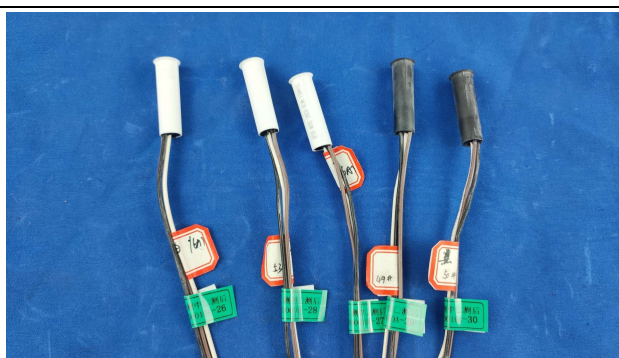
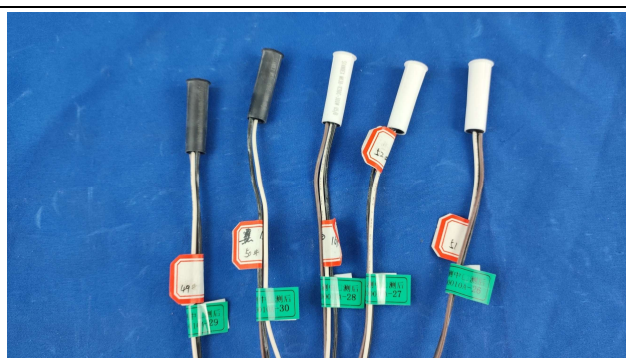
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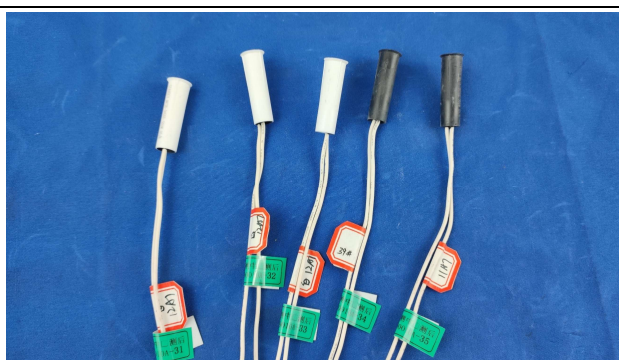
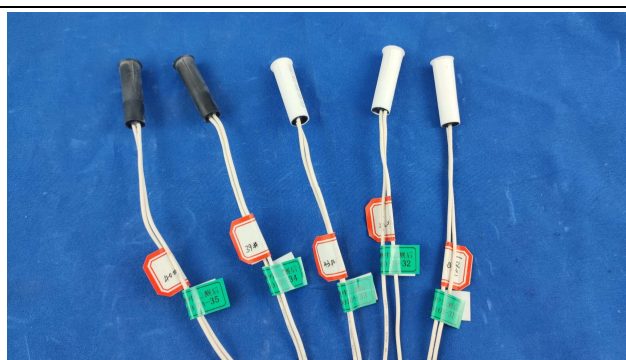
DK2605200010A-21~25



DK2605200010A-26~30



DK2605200010A-31~35



2. IPX7

REFERENCE DOCUMENT AND ADDITIONS TO, DEVIATIONS, OR EXCLUSIONS FROM THE METHODS

The test referred to IEC 60529:2013.

CRITERION FOR RESULT

After test, the appearance of samples should be free of cracks, damage, and other abnormal phenomena.

After test, no water enters the interior of the sample. (Check the interior of the terminal hole)

TEST CONDITION

Second characteristic numeral	Test means	Duration of test
7	Immersion tank Water-level on enclosure:1 m above bottom	30min

LABORATORY AMBIENCE CONDITION

Temperature: 18°C~28°C

Humidity: 25%RH~75%RH

DESCRIPTION OF TEST EQUIPMENT

EQUIPMENT	MODEL	NUMBER	EXPIRATION DATE
Immersion Test Chamber	CH-2010-78	RA-70	2026/9/5

TEST RESULT

DEKRA Sample No.	Test Result	Conclusion
DK2605200010A-1~5	After test, the appearance of sample is free of cracks, damage, and other abnormal phenomena. No water ingress the interior of the terminal hole.	Pass
DK2605200010A-6~10	After test, the appearance of sample is free of cracks, damage, and other abnormal phenomena. No water ingress the interior of the terminal hole.	Pass
DK2605200010A-11~15	After test, the appearance of sample is free of cracks, damage, and other abnormal phenomena. No water ingress the interior of the terminal hole.	Pass
DK2605200010A-16~20	After test, the appearance of sample is free of cracks, damage, and other abnormal phenomena. No water ingress the interior of the terminal hole.	Pass
DK2605200010A-21~25	After test, the appearance of sample is free of cracks, damage, and other abnormal phenomena. No water ingress the interior of the terminal hole.	Pass
DK2605200010A-26~30	After test, the appearance of sample is free of cracks, damage, and other abnormal phenomena. No water ingress the interior of the terminal hole.	Pass

DK2605200010A-31~35	After test, the appearance of sample is free of cracks, damage, and other abnormal phenomena. No water ingress the interior of the terminal hole.	Pass
Criterion for result	After test, the appearance of samples should be free of cracks, damage, and other abnormal phenomena. After test, no water enters the interior of the sample. (Check the interior of the terminal hole)	

The customer provides the following post-test performance check data:

Type	SN.	Before Test					After Test				
		PI (AT)	DO (AT)	CR (mΩ)	Dielectric strength result	Insulation resistance result	PI (AT)	DO (AT)	CR (mΩ)	Dielectric strength result	Insulation resistance result
MK36/0-1A-300W	69#	67.9	64.8	16.3	OK	OK	66.0	62.4	14.0	OK	OK
	70#	73.4	69.3	12.8	OK	OK	73.1	68.9	14.7	OK	OK
	71#	73.0	68.4	11.2	OK	OK	70.4	65.5	13.0	OK	OK
	72#	72.5	69.1	12.9	OK	OK	75.4	71.7	14.5	OK	OK
	73#	71.6	66.6	10.6	OK	OK	70.4	65.5	14.4	OK	OK
MK37/0-1A-300W	49#	63.9	48.5	8.69	OK	OK	61.5	47.3	8.96	OK	OK
	50#	67.4	55.6	9.97	OK	OK	65.4	54.4	9.94	OK	OK
	51#	67.5	54.9	8.41	OK	OK	66.6	54.4	8.60	OK	OK
	52#	63.6	52.2	8.78	OK	OK	63.8	52.7	8.86	OK	OK
	53#	67.2	54.0	8.40	OK	OK	66.7	53.5	8.42	OK	OK
MK37/0-1B-300W	49#	87.4	72.0	8.25	OK	OK	83.9	67.9	9.08	OK	OK
	50#	88.3	70.5	7.93	OK	OK	87.3	69.6	9.20	OK	OK
	51#	88.9	72.9	7.87	OK	OK	88.2	73.2	8.29	OK	OK
	52#	89.6	76.0	8.71	OK	OK	88.0	74.6	8.20	OK	OK
	53#	86.1	74.1	9.98	OK	OK	86.0	73.7	9.74	OK	OK
MK38/0-1A66B-300W	39#	62.1	49.9	8.50	OK	OK	56.9	46.1	8.77	OK	OK
	40#	65.8	50.9	8.51	OK	OK	54.7	43.2	8.74	OK	OK
	41#	67.4	53.6	8.37	OK	OK	66.5	52.2	8.32	OK	OK
	42#	68.0	54.6	8.50	OK	OK	69.8	54.8	8.53	OK	OK
	43#	69.7	55.4	8.35	OK	OK	64.5	50.9	8.48	OK	OK

Type	SN.	Before Test					After Test				
		PI (AT)	DO (AT)	CR (mΩ)	Dielectric strength result	Insulation resistance result	PI (AT)	DO (AT)	CR (mΩ)	Dielectric strength result	Insulation resistance result
MK38/O-1B90C-300W	49#	89.2	70.2	8.44	OK	OK	83.8	66.7	9.74	OK	OK
	50#	93.8	79.2	8.33	OK	OK	89.3	73.8	8.45	OK	OK
	51#	91.0	74.7	9.05	OK	OK	87.4	72.7	9.82	OK	OK
	52#	97.6	75.4	8.23	OK	OK	89.7	72.3	9.26	OK	OK
	53#	101.3	81.9	14.7	OK	OK	95.8	78.5	13.6	OK	OK
MK38/O-1C90C-300W	49#	NC	88.4	72.4	8.18	/	/	85.9	71.5	8.23	/
		NO	88.4	72.4	7.83	OK	OK	85.9	71.5	7.64	OK
	50#	NC	91.6	77.3	10.0	/	/	86.5	72.1	10.7	/
		NO	91.6	77.3	7.34	OK	OK	86.5	72.1	7.14	OK
	51#	NC	94.2	79.7	7.99	/	/	89.0	76.2	8.03	/
		NO	94.2	79.7	7.70	OK	OK	89.0	76.2	7.72	OK
	52#	NC	95.9	75.9	7.89	/	/	94.3	73.2	8.69	/
		NO	95.9	75.9	7.66	OK	OK	94.3	73.2	7.55	OK
	53#	NC	95.7	80.5	18.1	/	/	90.9	76.3	11.5	/
		NO	95.7	80.5	6.93	OK	OK	90.9	76.3	7.02	OK
MK38/O-1A85C-300W	19#	84.1	55.7	8.56	OK	OK	84.8	56.3	8.44	OK	OK
	20#	80.9	56.3	7.75	OK	OK	82.1	56.1	7.67	OK	OK
	21#	82.6	53.2	7.73	OK	OK	83.3	54.3	7.70	OK	OK
	22#	93.9	63.0	7.37	OK	OK	96.1	62.2	7.46	OK	OK
	23#	84.9	62.5	7.81	OK	OK	86.7	63.1	7.72	OK	OK

Dielectric strength test condition:

Test time:60s

Leakage current limit:100μA

Test point: between open contacts

Type	Test Voltage
MK36/0-1A-300W	200V DC
MK37/0-1A-300W	250V DC
MK37/0-1B-300W	150V DC
MK38/0-1A66B-300W	250V DC
MK38/0-1B90C-300W	150V DC
MK38/0-1C90C-300W	150V DC
MK38/0-1A85C-300W	1500V DC

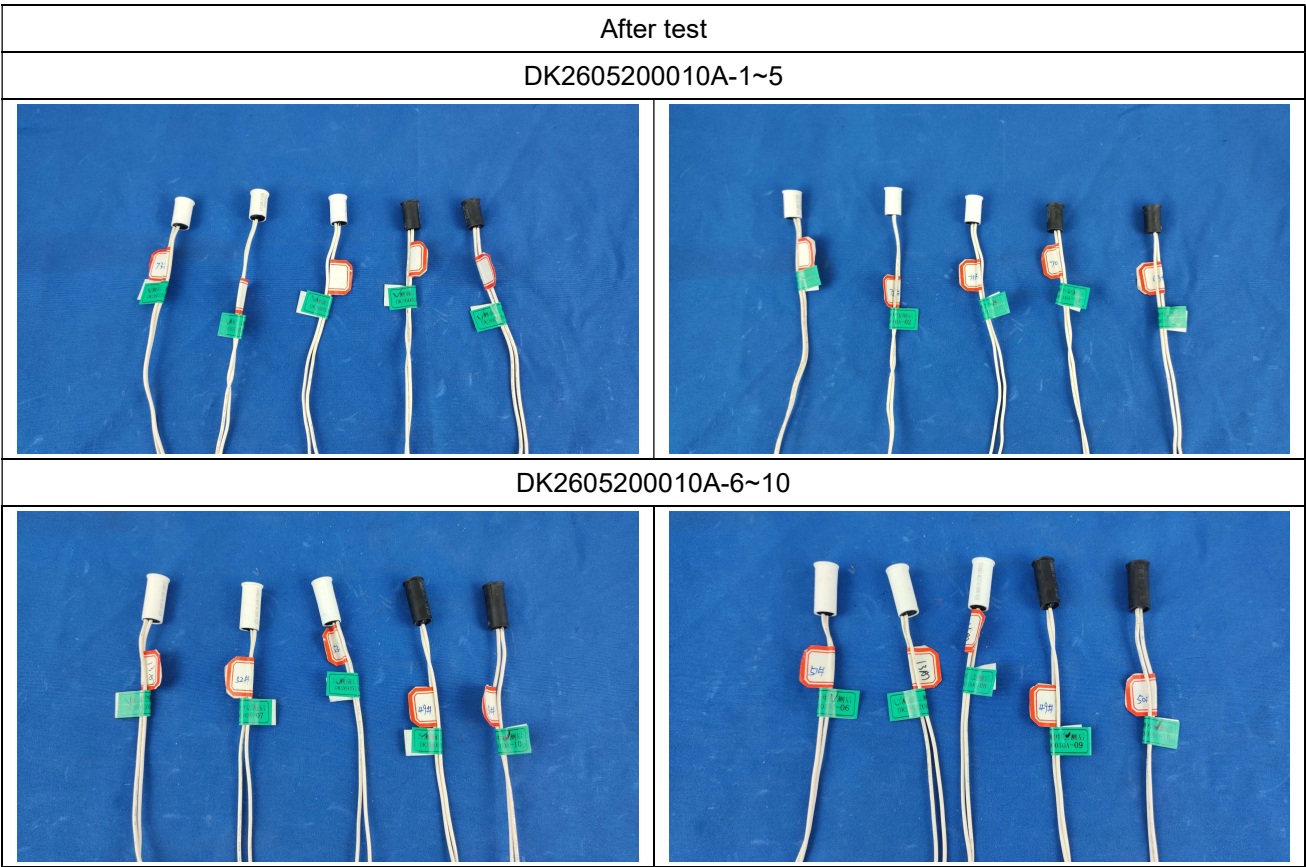
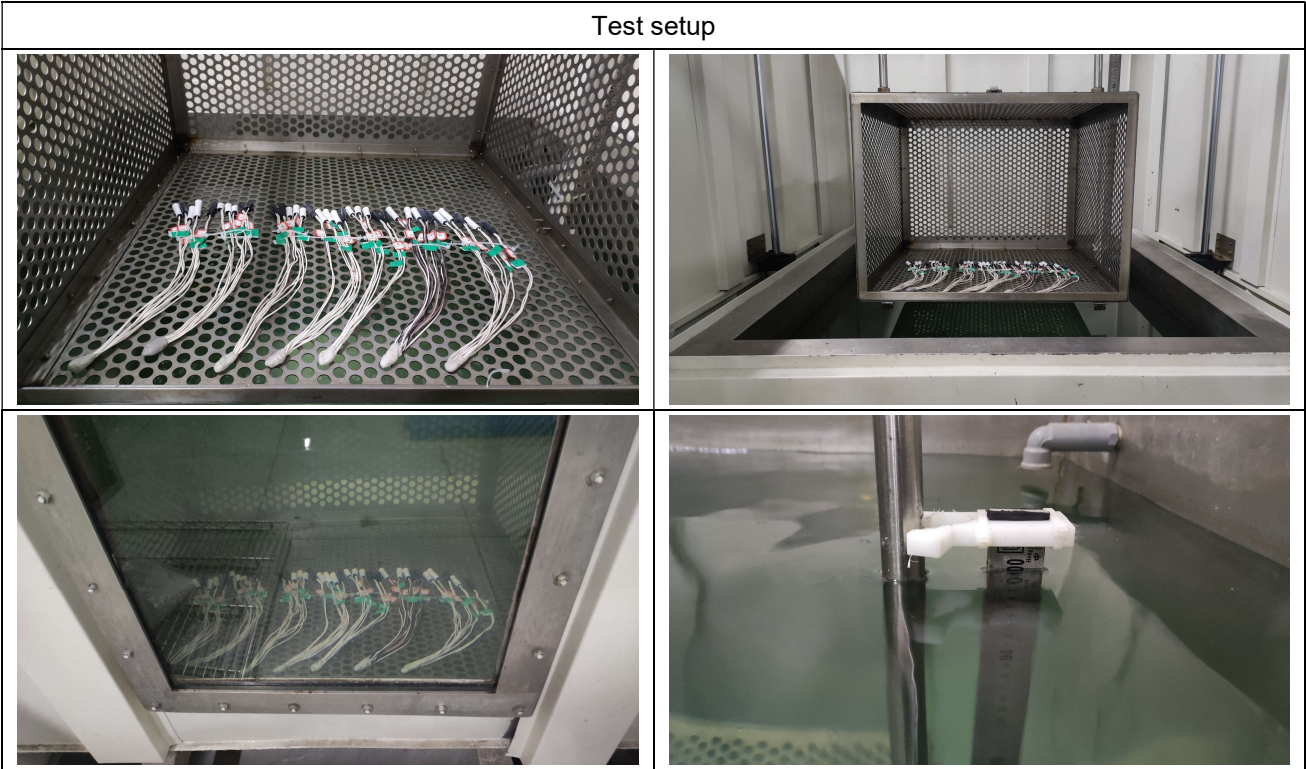
Insulation resistance test condition:

Test time:60s

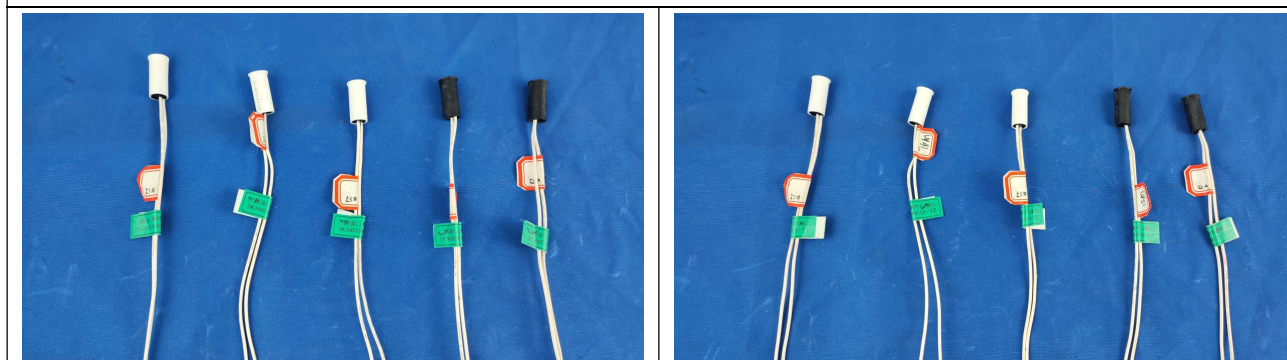
Test point: between open contacts

Type	Insulation resistance
MK36/0-1A-300W	$\geq 1G\Omega$
MK37/0-1A-300W	$\geq 10G\Omega$
MK37/0-1B-300W	$\geq 1G\Omega$
MK38/0-1A66B-300W	$\geq 10G\Omega$
MK38/0-1B90C-300W	$\geq 1G\Omega$
MK38/0-1C90C-300W	$\geq 1G\Omega$
MK38/0-1A85C-300W	$\geq 10G\Omega$

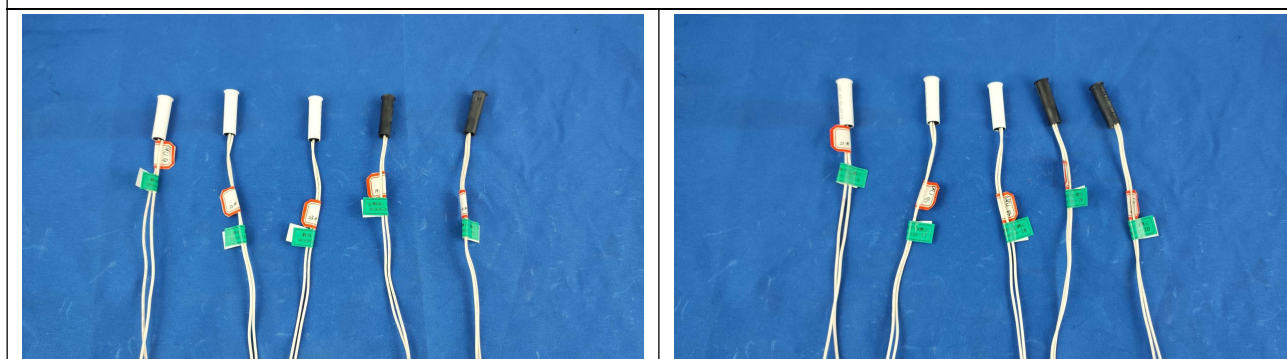
PHOTOS OF SAMPLES AND TEST



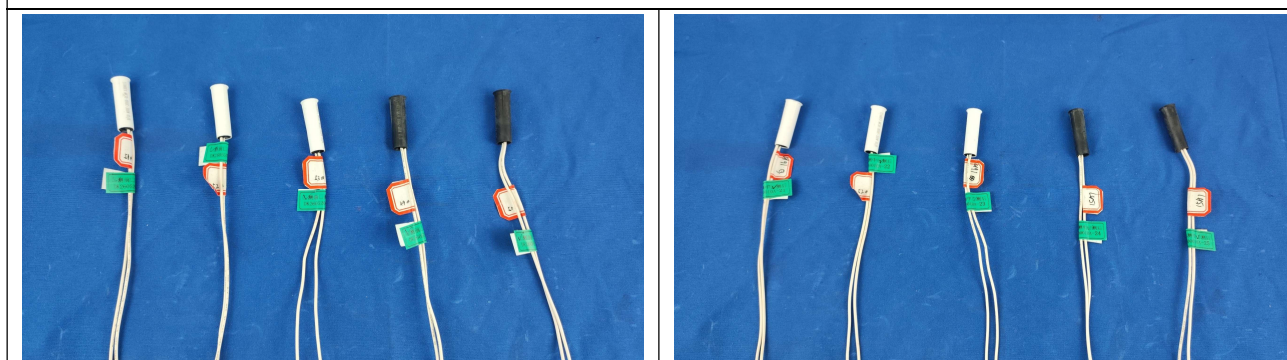
DK2605200010A-11~15



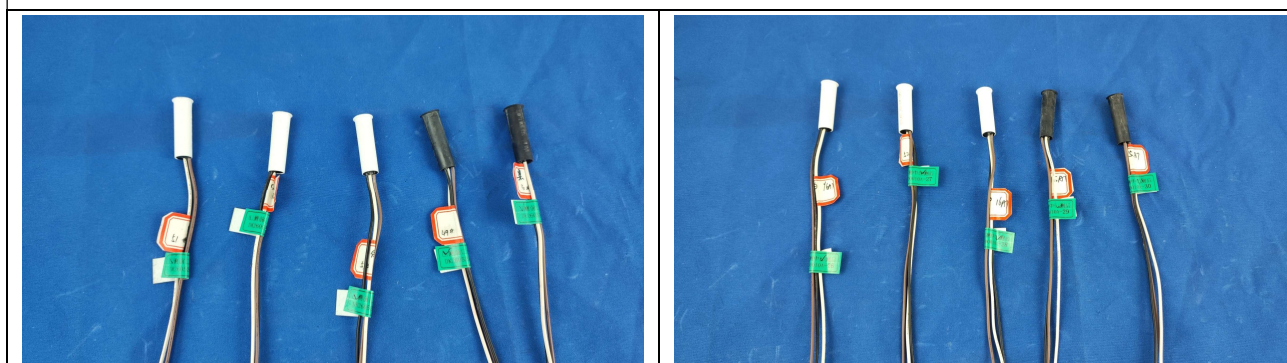
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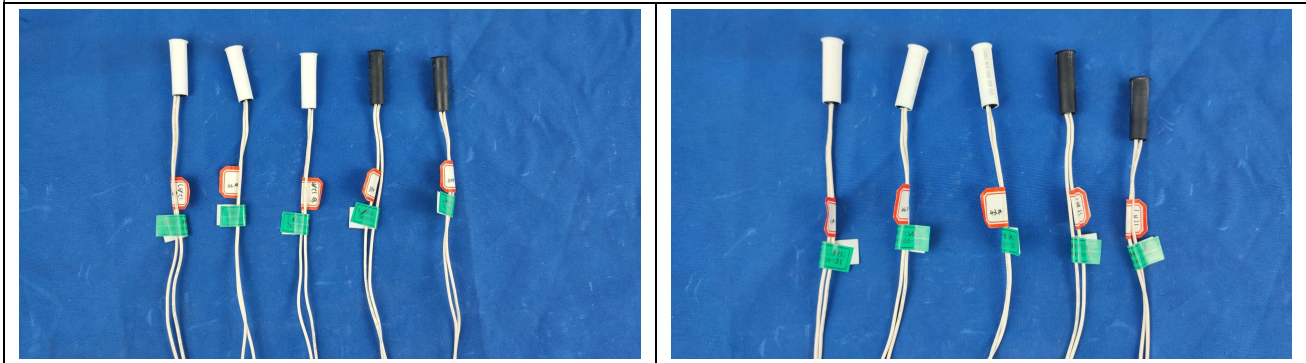
DK2605200010A-21~25



DK2605200010A-26~30



DK2605200010A-31~35

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

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