

EMC TEST REPORT

For

Production Unitary Enterprise «Elekt» Public Association «Belarussian Association of visually people» (Unitary Enterprise «Elekt» PA«Beltiz»)

Sensor

Model No.: JL-082

Additional Model No.: N/A

Prepared for	: Production Unitary Enterprise «Elekt» Public Association «Belarussian Association of visually people» (Unitary Enterprise «Elekt» PA«Beltiz»)
Address	: Republic of Belarus, 210603, Vitebsk, Komsomolskaya Str, 11/5
Prepared by	: Shenzhen AOCE Electronic Technology Service Co., Ltd.
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Date of receipt of test sample	: November 12, 2025
Number of tested samples	: 1
Serial number	: Prototype
Date of Test	: November 12, 2025 - November 19, 2025
Date of Report	: November 19, 2025



EMC TEST REPORT
EN 55015:2019+A11:2020

Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment

EN IEC 61547: 2023

Equipment for general lighting purposes - EMC immunity requirements

Report Reference No.: AOC251119101E

Date Of Issue: November 19, 2025

Testing Laboratory Name.....: Shenzhen AOCE Electronic Technology Service Co., Ltd.

Address: Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District, Shenzhen, Guangdong, China

Testing Location/ Procedure: Full application of Harmonised standards ■
Partial application of Harmonised standards □
Other standard testing method □**Applicant's Name: Production Unitary Enterprise «Elekt» Public Association**
«Belarussian Association of visually people» (Unitary Enterprise «Elekt» PA«Beltiz»)

Address: Republic of Belarus, 210603, Vitebsk, Komsomolskaya Str, 11/5

Test Specification:Standard: EN 55015:2019+A11:2020
EN IEC 61000-3-2:2019+A1:2021+A2:2024
EN 61000-3-3:2013+A1:2019+A2:2021+AC:2022
EN IEC 61547: 2023

Test Report Form No.....: AOCEMC-1.0

TRF Originator: Shenzhen AOCE Electronic Technology Service Co., Ltd.

Master TRF: Dated 2011-03

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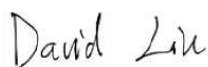
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Test Item Description.....: Sensor

Trade Mark: N/A

Model/ Type Reference: JL-082

Ratings: AC 185-240V, 50/60Hz, 100W, IP20, Clacc II

Result: Positive**Compiled by:**

David Liu/ File administrators

Supervised by:

Kevin Huang/ Technique principal

Approved by:

Jackson Fang/ Manager

EMC -- TEST REPORT

Test Report No. : AOC251119101ENovember 19, 2025

Date of issue

Type / Model..... : JL-082

EUT..... : Sensor

Applicant..... : Production Unitary Enterprise «Elekt» Public Association «Belarussian Association of visually people» (Unitary Enterprise «Elekt» PA«Beltiz»)
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Test Result according to the standards on page 7:**Positive**

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

TABLE OF CONTENTS	Page
1. SUMMARY OF STANDARDS AND RESULTS	7
1.1.Description of Standards and Results	7
1.2.Description of Performance Criteria.....	8
2. GENERAL INFORMATION	9
2.1.Description of Device (EUT)	9
2.2.Description of Test Facility	9
2.3.Statement of the measurement uncertainty	9
2.4.Measurement Uncertainty	10
3. MEASURING DEVICES AND TEST EQUIPMENT	11
3.1.Conducted Disturbance	11
3.2.Disturbance Power	11
3.3.Radiated Electromagnetic Disturbance.....	11
3.4.Radiated Disturbance (Electric Field)	11
3.5.Harmonic Current.....	11
3.6.Voltage fluctuation and Flicker	11
3.7.Electrostatic Discharge	12
3.8.RF Field Strength Susceptibility.....	12
3.9.Electrical Fast Transient/Burst.....	12
3.10.Surge.....	12
3.11.Conducted Susceptibility	12
3.12.Power Frequency Magnetic Field Susceptibility.....	12
3.13.Voltage Dips.....	13
3.14.Voltage Short Interruptions	13
4. POWER LINE CONDUCTED MEASUREMENT	14
4.1.Block Diagram of Test Setup	14
4.2.Conducted Power Line Emission Measurement Standard and Limits	14
4.3.EUT Configuration on Test.....	14
4.4.Operating Condition of EUT	14
4.5.Test Procedure	15
4.6.Test Results	15
5. MAGNETIC FIELD EMISSION MEASUREMENT	16
5.1.Block Diagram of Test Setup.....	17
5.2.Magnetic Field Emission Measurement Standard and Limits.....	17
5.3.EUT Configuration on Test	17
5.4.Operating Condition of EUT	17
5.5.Test Procedure.....	18
5.6.Test Results	18
6. RADIATED EMISSION MEASUREMENT	19
6.1.Block Diagram of Test Setup.....	19
6.2.Test Standard.....	19

6.3.Radiated Emission Limits	19
6.4.EUT Configuration on Test	20
6.5.Operating Condition of EUT	20
6.6.Test Procedure.....	20
6.7.Test Results	20
7. HARMONIC CURRENT MEASUREMENT	22
7.1.Block Diagram of Test Setup	22
7.2.Test Standard.....	22
7.3.Operating Condition of EUT	22
7.4.Test Results.....	22
8. VOLTAGE FLUCTUATIONS & FLICKER MEASUREMENT	23
8.1.Block Diagram of Test Setup	23
8.2.Test Standard.....	23
8.3.Operating Condition of EUT	23
8.4.Test Results.....	23
9. ELECTROSTATIC DISCHARGE TEST	24
9.1.Block Diagram of Test Setup.....	24
9.2.Test Standard.....	24
9.3.Severity Levels and Performance Criterion.....	24
9.4.EUT Configuration on Test	24
9.5.Operating Condition of EUT	25
9.6.Test Procedure.....	25
9.7.Test Results	25
10. RF FIELD STRENGTH SUSCEPTIBILITY TEST	27
10.1.Block Diagram of Test Setup.....	27
10.2.Test Standard.....	27
10.3.Severity Levels and Performance Criterion.....	27
10.4.EUT Configuration on Test	28
10.5.Operating Condition of EUT	28
10.6.Test Procedure.....	28
10.7.Test Results	28
11. ELECTRICAL FAST TRANSIENT/BURST TEST	30
11.1.Block Diagram of Test Setup	30
11.2.Test Standard.....	30
11.3.Severity Levels and Performance Criterion	30
11.4.EUT Configuration on Test.....	30
11.5.Operating Condition of EUT	30
11.6.Test Procedure	31
11.7.Test Results	31
12. SURGE IMMUNITY TEST.....	33
12.1.Block Diagram of Test Setup	33
12.2.Test Standard.....	33
12.3.Severity Levels and Performance Criterion	33

12.4.EUT Configuration on Test	33
12.5.Operating Condition of EUT	34
12.6.Test Procedure	34
12.7.Test Results	34
13. INJECTED CURRENTS SUSCEPTIBILITY TEST	36
13.1.Block Diagram of Test Setup	36
13.2.Test Standard	36
13.3.Severity Levels and Performance Criterion	36
13.4.EUT Configuration on Test	36
13.5.Operating Condition of EUT	37
13.6.Test Procedure	37
13.7.Test Results	37
14. MAGNETIC FIELD IMMUNITY TEST	39
14.1.Block Diagram of Test Setup	39
14.2.Test Standard	39
14.3.Severity Levels and Performance Criterion	39
14.4.EUT Configuration on Test	39
14.5.Operating Condition of EUT	40
14.6.Test Procedure	40
14.7.Test Results	40
15. VOLTAGE DIPS AND INTERRUPTIONS TEST	42
15.1.Block Diagram of Test Setup	42
15.2.Test Standard	42
15.3.Severity Levels and Performance Criterion	42
15.4.EUT Configuration on Test	42
15.5.Operating Condition of EUT	43
15.6.Test Procedure	43
15.7.Test Result	43
16. PHOTOGRAPH	45
17. EXTERNAL AND INTERNAL PHOTOS OF THE EUT	46

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION (EN 55015:2019+A11:2020)			
Description of Test Item	Standard	Limits	Results
Conducted disturbance at mains terminals	EN 55015:2019+A11:2020	-----	PASS
Magnetic field emission	EN 55015:2019+A11:2020	-----	PASS
Radiated disturbance	EN 55015:2019+A11:2020	-----	PASS
Harmonic current emissions	EN IEC 61000-3-2:2019+A1:2021+A2:2024	Class C	PASS
Voltage fluctuations & flicker	EN 61000-3-3:2013+A1:2019+A2:2021+AC:2022	-----	PASS
IMMUNITY (EN IEC 61547: 2023)			
Description of Test Item	Basic Standard	Performance Criteria	Results
Electrostatic discharge (ESD)	EN 61000-4-2: 2009	B	PASS
Radio-frequency, Continuous radiated disturbance	EN 61000-4-3: 2020	A	PASS
Electrical fast transient (EFT)	EN 61000-4-4: 2012	B	PASS
Surge (Input a.c. power ports)	EN 61000-4-5: 2014+A1: 2017	B	PASS
Radio-frequency, Continuous conducted disturbance	EN 61000-4-6: 2014+AC: 2015	A	PASS
Power frequency magnetic field	EN 61000-4-8: 2010	A	PASS
Voltage dips, 30% reduction	EN 61000-4-11: 2020	C	PASS
Voltage interruptions		B	PASS
N/A is an abbreviation for Not Applicable.			

1.2. Description of Performance Criteria

General Performance Criteria

Examples of functions defined by the manufacturer to be evaluated during testing include, but are not limited to, the following:

- essential operational modes and states;
- tests of all peripheral access (hard disks, floppy disks, printers, keyboard, mouse, etc.);
- quality of software execution;
- quality of data display and transmission;
- quality of speech transmission.

1.2.1. Performance criterion A

The equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed below a performance level specified by the manufacture when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

1.2.2. Performance criterion B

After the test, the equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacture, when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance.

During the test, degradation of performance is allowed. However, no change of operation state or stored data is allowed to persist after the test.

If the minimum performance level (or the permissible performance loss) is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

1.2.3. Performance criterion C

Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacture's instructions.

Functions, and/or information stored in non-volatile memory, or protected by a battery backup, shall not be lost.

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT	: Sensor
Model Number	: JL-082
Power Supply	: AC 185-240V, 50/60Hz, 100W, IP20, Clacc II

2.2. Description of Test Facility

EMC Lab.

2.3. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the AOC quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

2.4.Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
Radiation Uncertainty	:	30MHz~200MHz	$\pm 2.96\text{dB}$	(1)
		200MHz~1000MHz	$\pm 3.10\text{dB}$	(1)
Conduction Uncertainty	:	150kHz~30MHz	$\pm 1.63\text{dB}$	(1)
Power disturbance	:	30MHz~300MHz	$\pm 1.60\text{dB}$	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

3. MEASURING DEVICES AND TEST EQUIPMENT

3.1. Conducted Disturbance

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	101142	2025/04/13
2	10dB Attenuator	SCHWARZBECK	OSPAM236	9729	2025/04/13
3	Artificial Mains	ROHDE & SCHWARZ	ENV216	101288	2025/04/13
4	EMI Test Software	AUDIX	E3	N/A	2025/04/13

3.2. Disturbance Power

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	101142	2025/04/13
2	Absorbing clamp	ROHDE & SCHWARZ	MDS 21	4033	2025/04/13
3	EMI Test Software	AUDIX	E3	N/A	2025/04/13
4	EMI Test Receiver	ROHDE & SCHWARZ	ESPI	101840	2025/04/13

3.3. Radiated Electromagnetic Disturbance

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	1011423	2025/04/13
2	Triple-loop Antenna	EVERFINE	LLA-2	11050003	2025/04/13
3	EMI Test Receiver	ROHDE & SCHWARZ	ESPI	101840	2025/04/13
4	EMI Test Software	AUDIX	E3	N/A	2025/04/13

3.4. Radiated Disturbance (Electric Field)

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2025/04/13
2	EMI Test Receiver	ROHDE & SCHWARZ	ESPI	101840	2025/04/13
3	Log per Antenna	SCHWARZBECK	VULB9163	9163-470	2025/04/13
4	EMI Test Software	AUDIX	E3	N/A	2025/04/13
5	Positioning Controller	MF	MF-7082	/	2025/04/13
6	Horn Antenna	ETS.LINDGREN	3115	00034771	2025/04/13
7	Spectrum Analyzer	Agilent	E4407B	MY41440754	2025/04/13

3.5. Harmonic Current

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Power Analyzer Test System	Voltech	PM6000	20000670053	2025/04/13

3.6. Voltage fluctuation and Flicker

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Power Analyzer Test System	Voltech	PM6000	20000670053	2025/04/13

3.7.Electrostatic Discharge

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	ESD Simulator	KIKUSUI	KC001311	KES4021	2025/04/13

3.8.RF Field Strength Susceptibility

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	SIGNAL GENERATOR	HP	8648A	625U00573	2025/04/13
2	Amplifier	AR	500A100	17034	2025/04/13
3	Amplifier	AR	100W/1000M1	17028	2025/04/13
4	Isotropic Field Monitor	AR	FM2000	16829	2025/04/13
5	Isotropic Field Probe	AR	FP2000	16755	2025/04/13
6	Bi-conic Antenna	EMCO	3108	9507-2534	2025/04/13
7	By-log-periodic Antenna	AR	AT1080	16812	2025/04/13
8	EMS Test Software	ROHDE & SCHWARZ	ESK1	N/A	2025/04/13

3.9.Electrical Fast Transient/Burst

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Electrical fast transient(EFT)generator	3CTEST	EFT-4021	EC0461044	2025/04/13
2	Coupling Clamp	3CTEST	EFTC	EC0441098	2025/04/13

3.10.Surge

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Surge test system	3CTEST	SG5006G	EC5581070	2025/04/13
2	Coupling/decoupling network	3CTEST	SGN-5010G	CS5591033	2025/04/13

3.11.Conducted Susceptibility

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Simulator	EMTEST	CIT-10	A126A1195	2025/04/13
2	CDN	EMTEST	CDN-M2	A2210177	2025/04/13
3	CDN	EMTEST	CDN-M3	A2210177	2025/04/13
4	Attenuator	EMTEST	ATT6	50FP-006-H3B	2025/04/13

3.12.Power Frequency Magnetic Field Susceptibility

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Power frequency mag-field generator System	EVERFINE	EMS61000-8K	906003	2025/04/13

3.13.Voltage Dips

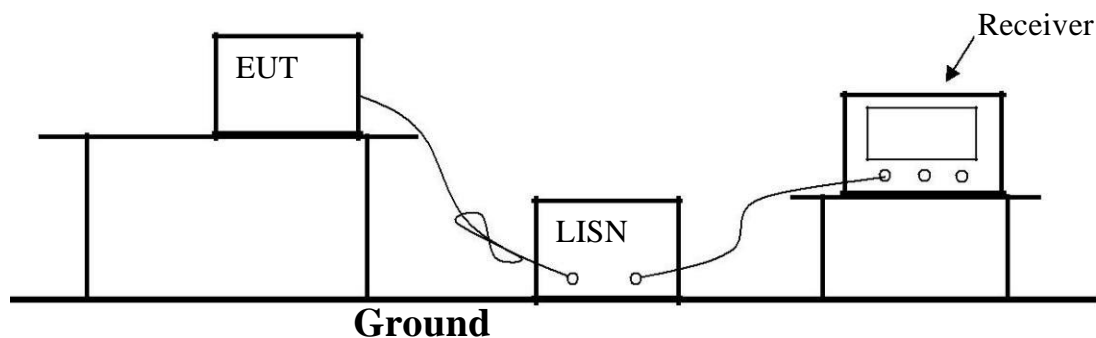
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Voltage dips and up generator	3CTEST	VDG-1105G	EC0171014	2025/04/13

3.14.Voltage Short Interruptions

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Voltage dips and up generator	3CTEST	VDG-1105G	EC0171014	2025/04/13

4. POWER LINE CONDUCTED MEASUREMENT

4.1. Block Diagram of Test Setup



4.2. Conducted Power Line Emission Measurement Standard and Limits

4.2.1. Standard:

EN 55015:2019+A11:2020

4.2.2. Limits

Frequency	At mains terminals (dB μ V)	
	Quasi-peak Level	Average Level
9kHz ~ 50kHz	110	--
50kHz ~ 150kHz	90 ~ 80*	--
150kHz ~ 0.5MHz	66 ~ 56*	56 ~ 46*
0.5MHz ~ 5.0MHz	56	46
5.0MHz ~ 30MHz	60	50

1. At the transition frequency the lower limit applies.
2. * decreasing linearly with logarithm of the frequency.

4.3. EUT Configuration on Test

The configuration of the EUT is same as Section 3.1.

4.4. Operating Condition of EUT

- 4.4.1. Setup the EUT as shown in Section 4.1.
- 4.4.2. Turn on the power of all equipments.
- 4.4.3. Let the EUT work in test mode (On) and measure it.

4.5. Test Procedure

The EUT is put on the table which is 0.8 meter high above the ground and connected to the AC mains through a Line Impedance Stabilization Network (L.I.S.N.). This provided a 50ohm coupling impedance for the tested equipments. Both sides of AC line are checked to find out the maximum conducted emission according to the EN 55015 regulations during conducted emission measurement. And the voltage probe had been used for the load terminals measurement according to the EN 55015 standard.

The bandwidth of the test receiver is set at 200Hz in 9k~150kHz range and 9kHz in 150k~30MHz range.

The frequency range from 9kHz to 30MHz is checked.

All the test results are listed in Section 4.6.

The frequency range from 9kHz to 30MHz is investigated.

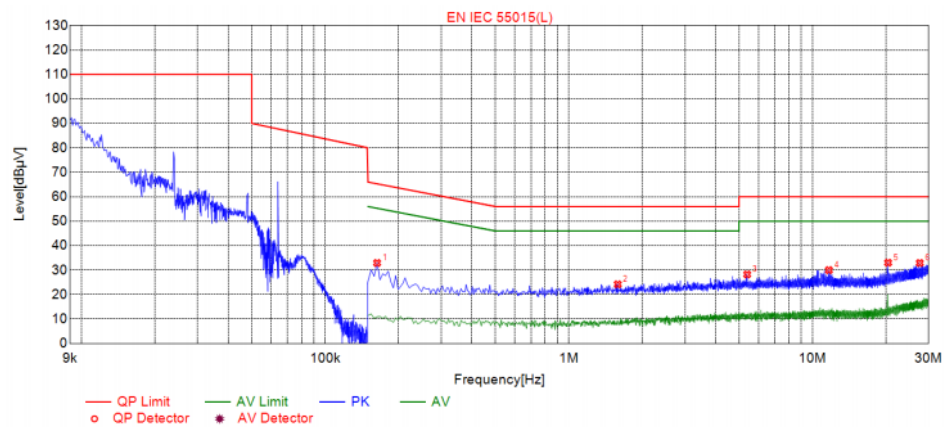
4.6. Test Results

PASS.

The test result please refer to the next page.

Model No.	JL-082	Test Mode	ON
Environmental Conditions	24°C/ 56% RH	Test Engineer	Liang
Pol	Line	Test Date	November 12, 2025

Test Graph

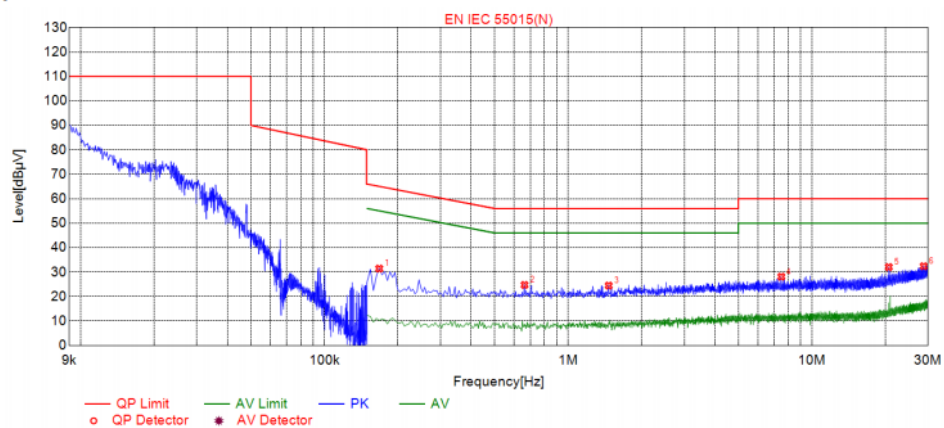


Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1635	32.92	19.56	65.28	32.36	13.36	PK	L
2	1.5900	24.20	19.99	56.00	31.80	4.21	PK	L
3	5.4005	28.23	20.41	60.00	31.77	7.82	PK	L
4	11.6915	30.00	21.36	60.00	30.00	8.64	PK	L
5	20.4575	33.01	23.13	60.00	26.99	9.88	PK	L
6	27.5945	32.90	24.98	60.00	27.10	7.92	PK	L

Model No.	JL-082	Test Mode	ON
Environmental Conditions	24°C/ 56% RH	Test Engineer	Liang
Pol	Neutral	Test Date	November 12, 2025

Test Graph

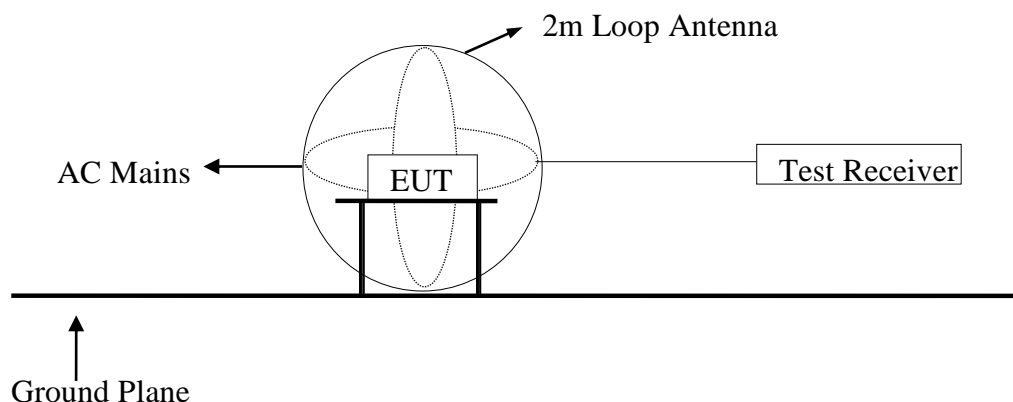


Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1680	31.45	19.61	65.06	33.61	11.84	PK	N
2	0.6630	24.75	19.75	56.00	31.25	5.00	PK	N
3	1.4685	24.50	19.85	56.00	31.50	4.65	PK	N
4	7.5020	28.13	20.58	60.00	31.87	7.55	PK	N
5	20.7050	32.06	23.28	60.00	27.94	8.78	PK	N
6	28.8005	32.41	25.20	60.00	27.59	7.21	PK	N

5. MAGNETIC FIELD EMISSION MEASUREMENT

5.1. Block Diagram of Test Setup



5.2. Magnetic Field Emission Measurement Standard and Limits

5.2.1. Test Standard

EN 55015:2019+A11:2020

5.2.2. Test Limits

Frequency	Limits for loop diameter (dB μ A)
	2m
9kHz ~ 70kHz	88
70kHz ~ 150kHz	88 ~ 58*
150kHz ~ 3.0MHz	58 ~ 22*
3.0MHz ~ 30MHz	22

1. At the transition frequency the lower limit applies.
2. * decreasing linearly with logarithm of the frequency.

5.3. EUT Configuration on Test

The configuration of the EUT is same as Section 4.3.

5.4. Operating Condition of EUT

- 5.4.1. Setup the EUT as shown in Section 5.1.
- 5.4.2. Turn on the power of all equipments.
- 5.4.3. Let the EUT work in test mode (On) and measure it.

5.5.Test Procedure

The EUT is placed on a wood table in the center of a loop antenna. The induced current in the loop antenna is measured by means of a current probe and the test receiver. Three field components are checked by means of a coaxial switch.

The frequency range from 9kHz to 30MHz is investigated. The receiver is measured with the quasi-peak detector. For frequency band 9kHz to 150kHz, the bandwidth of the field strength meter is set at 200Hz. For frequency band 150kHz to 30MHz, the bandwidth is set at 9kHz.

All the test results are listed in Section 5.6.

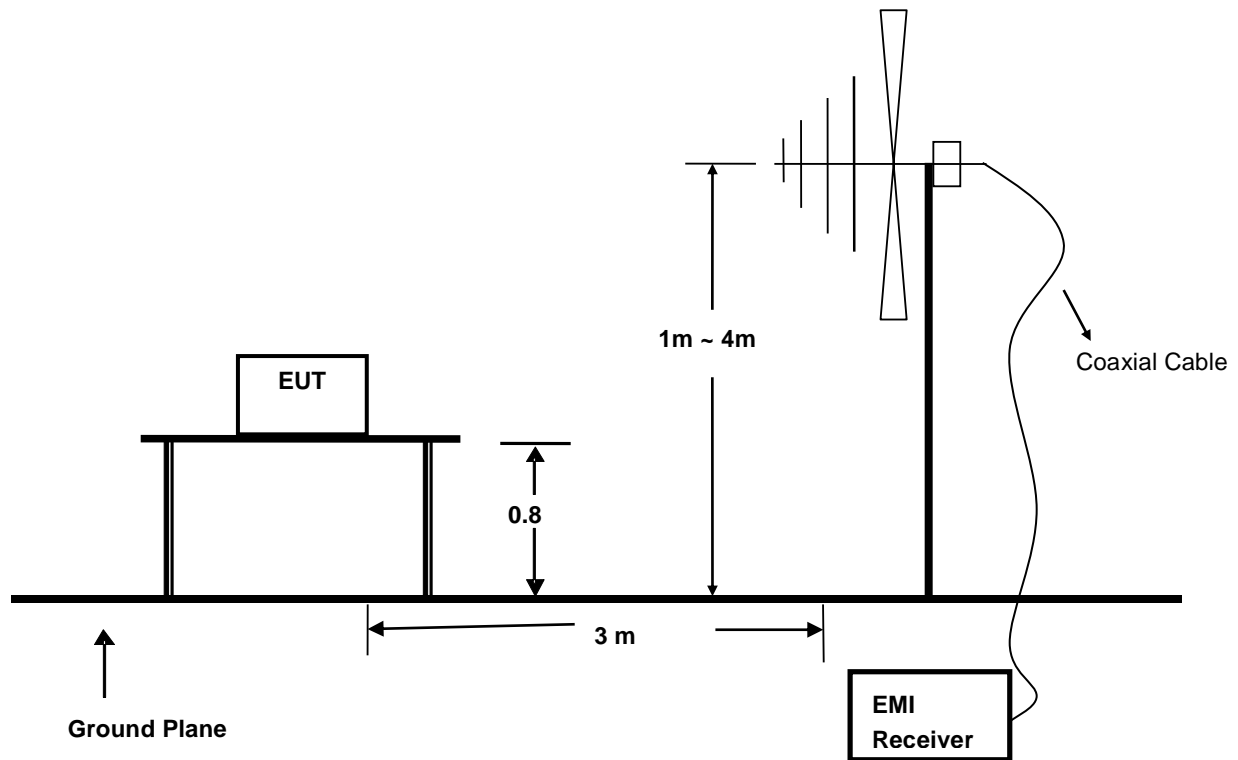
5.6.Test Results

PASS.

The frequency range from 9kHz to 30MHz is investigated.

6. RADIATED EMISSION MEASUREMENT

6.1. Block Diagram of Test Setup



6.2. Test Standard

EN 55015:2019+A11:2020

6.3. Radiated Emission Limits

All emanations from a class B device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMIT (dB μ V/m)
30 ~ 230	3	40
230 ~ 300	3	47

- Note: (1) The smaller limit shall apply at the combination point between two frequency bands.
- (2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the EUT.

6.4.EUT Configuration on Test

The EN 55015 regulations test method must be used to find the maximum emission during radiated emission measurement.

6.5.Operating Condition of EUT

6.5.1 Turn on the power.

6.5.2 After that, let the EUT work in test mode (ON) and measure it.

6.6.Test Procedure

The EUT is placed on a turntable, which is 0.8 meter high above the ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 10 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. By-log antenna (calibrated by Dipole Antenna) is used as a receiving antenna. Both horizontal and vertical polarization of the antenna is set on test.

The bandwidth of the Receiver is set at 120kHz.

The frequency range from 30MHz to 300MHz is investigated.

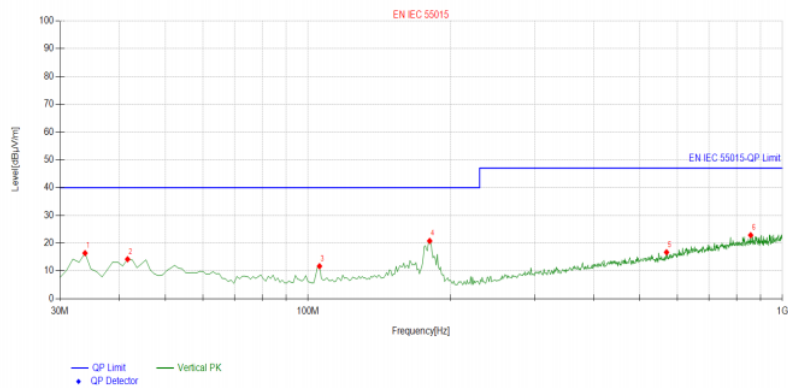
6.7.Test Results

PASS.

The test result please refer to the next page.

Model No.	JL-082	Test Mode	ON
Environmental Conditions	24°C / 56% RH	Detector Function	Quasi-peak
Pol	Vertical	Distance	3m
Test Engineer	Liang	Test Date	November 12, 2025

Test Graph

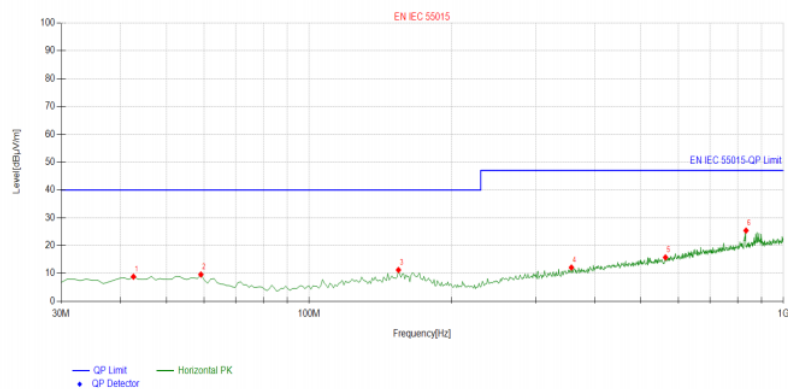


Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	33.883884	-17.76	34.17	16.41	40.00	23.59	100	321	Vertical
2	41.651652	-17.03	31.25	14.22	40.00	25.78	100	161	Vertical
3	105.73573	-20.85	32.56	11.71	40.00	28.29	100	282	Vertical
4	180.50050	-19.10	39.91	20.81	40.00	19.19	100	359	Vertical
5	569.85986	-12.37	29.09	16.72	47.00	30.28	100	151	Vertical
6	857.26726	-6.88	29.75	22.87	47.00	24.13	100	217	Vertical

Model No.	JL-082	Test Mode	ON
Environmental Conditions	24°C / 56% RH	Detector Function	Quasi-peak
Pol	Horizontal	Distance	3m
Test Engineer	Liang	Test Date	November 12, 2025

Test Graph

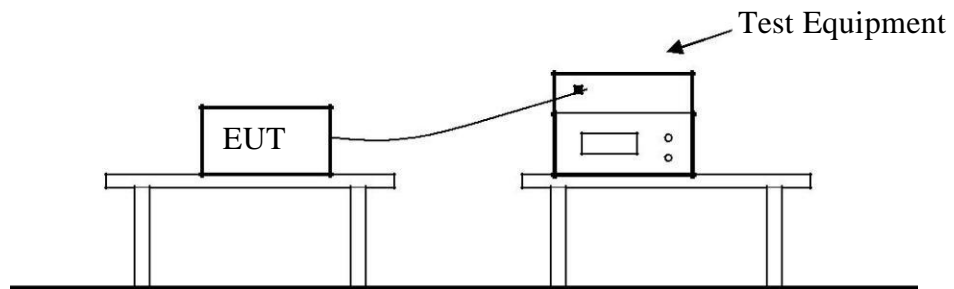


Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBμV/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	42.622623	-17.10	25.92	8.82	40.00	31.18	100	85	Horizontal
2	59.129129	-18.18	27.79	9.61	40.00	30.39	100	346	Horizontal
3	154.28428	-16.91	28.16	11.25	40.00	28.75	100	85	Horizontal
4	357.21721	-15.93	28.05	12.12	47.00	34.88	100	63	Horizontal
5	564.03403	-12.74	28.51	15.77	47.00	31.23	100	45	Horizontal
6	833.96396	-7.31	32.72	25.41	47.00	21.59	100	218	Horizontal

7. HARMONIC CURRENT MEASUREMENT

7.1. Block Diagram of Test Setup



7.2. Test Standard

EN IEC 61000-3-2:2019+A1:2021+A2:2024

7.3. Operating Condition of EUT

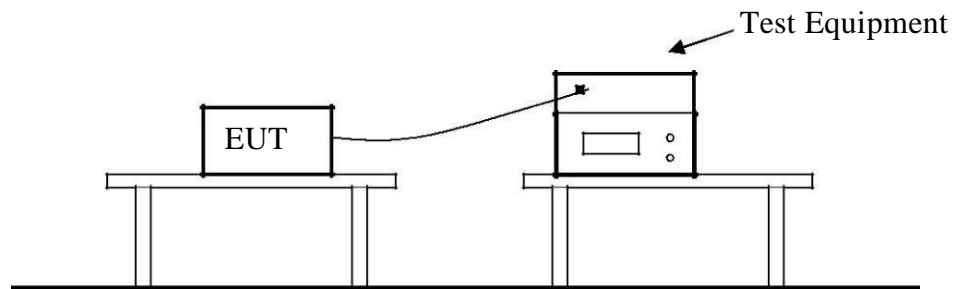
Same as Section 4.4. except the test setup replaced by Section 7.1.

7.4. Test Results

PASS.

8. VOLTAGE FLUCTUATIONS & FLICKER MEASUREMENT

8.1. Block Diagram of Test Setup



8.2. Test Standard

EN 61000-3-3:2013+A1:2019+A2:2021+AC:2022

8.3. Operating Condition of EUT

Same as Section 4.4. except the test setup replaced by Section 8.1.

8.4. Test Results

PASS.

The test result please refer to the next page.

9.5.Operating Condition of EUT

9.5.1.Setup the EUT as shown in Section 6.1.

9.5.2.Turn on the power of all equipments.

9.5.3.Let the EUT work in test mode (ON) and measure it.

9.6.Test Procedure

9.6.1.Air Discharge

This test is done on a non-conductive surfaces. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

Because the case of the EUT is metal surface, so it does not need to be tested.

9.6.2.Contact Discharge

All the procedure shall be same as Section 6.6.1. except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

9.6.3.Indirect Discharge For Horizontal Coupling Plane

At least 20 single discharges shall be applied to the horizontal coupling plane, at points on each side of the EUT. The discharge electrode positions vertically at a distance of 0.1m from the EUT and with the discharge electrode touching the coupling plane.

9.6.4.Indirect Discharge For Vertical Coupling Plane

At least 20 single discharge shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

9.7.Test Results

PASS.

Please refer to the following page.

Electrostatic Discharger Test Results

Standard	<input type="checkbox"/> IEC 61000-4-2 <input checked="" type="checkbox"/> EN 61000-4-2		
Applicant	Production Unitary Enterprise «Elekt» Public Association «Belarussian Association of visually people» (Unitary Enterprise «Elekt» PA «Beltiz»)		
EUT	Sensor	Temperature	26°C
M/N	JL-082	Humidity	51 %
Criterion	B	Pressure	1021mbar
Test Mode	ON	Test Engineer	Liang

Air Discharge

Test Points	Test Levels			Results		
	± 2KV	± 4KV	± 8KV	Pass	Fail	Performance Criterion
Front	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B
Back	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B
Left	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B
Right	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B
Top	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B
Bottom	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B

Contact Discharge

Test Points	Test Levels		Results		
	± 2 KV	± 4 KV	Pass	Fail	Performance Criterion
Front	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B
Back	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B
Left	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B
Right	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B
Top	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B
Bottom	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B

Discharge To Horizontal Coupling Plane

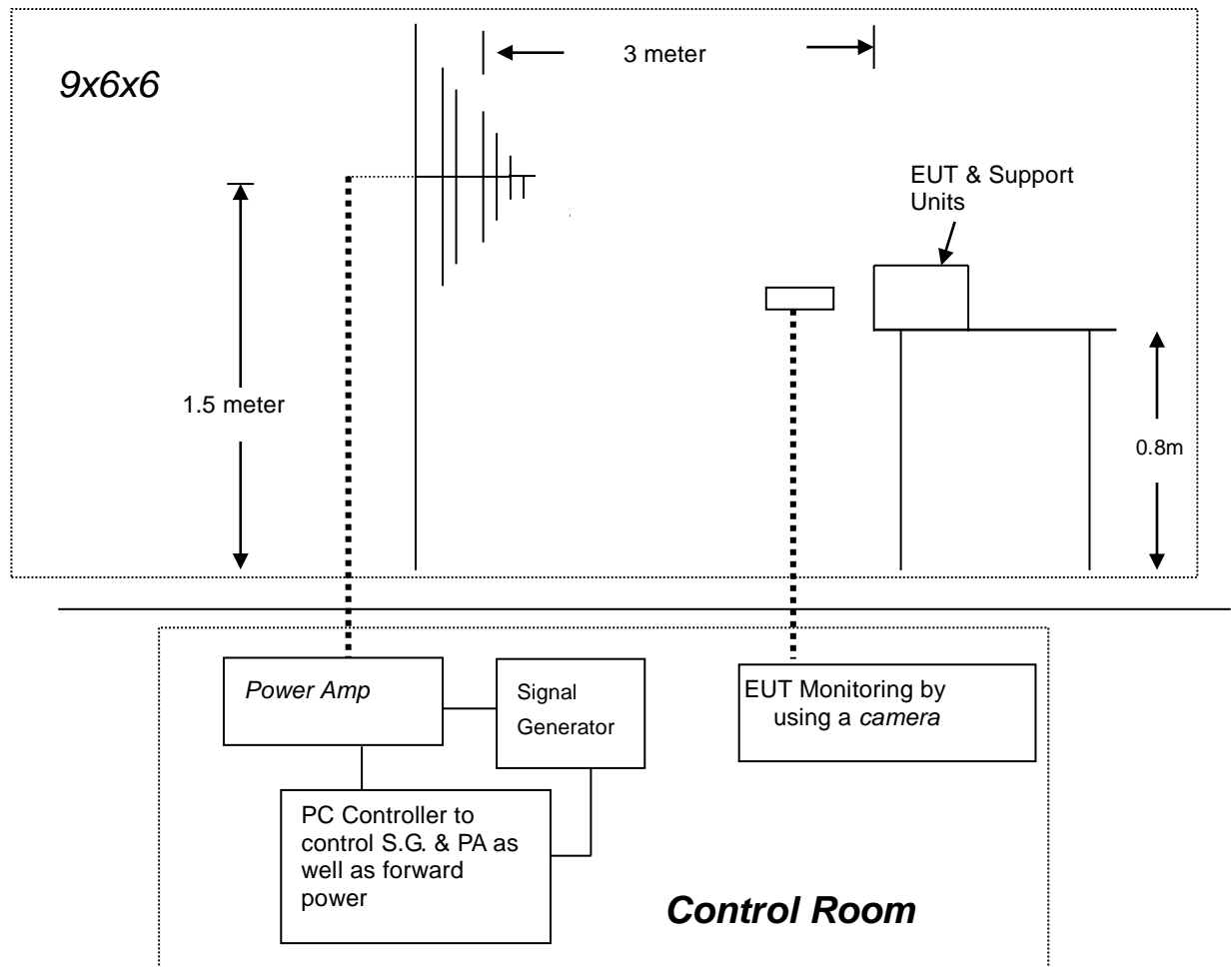
Side of EUT	Test Levels		Results		
	± 2 KV	± 4 KV	Pass	Fail	Performance Criterion
Front	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B
Back	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B
Left	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B
Right	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B

Discharge To Vertical Coupling Plane

Side of EUT	Test Levels		Results		
	± 2 KV	± 4 KV	Pass	Fail	Performance Criterion
Front	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B
Back	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B
Left	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B
Right	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> A <input checked="" type="checkbox"/> B

10. RF FIELD STRENGTH SUSCEPTIBILITY TEST

10.1. Block Diagram of Test Setup



10.2. Test Standard

EN IEC 61547: 2023 (EN 61000-4-3: 2020, Severity Level: 2, 3V / m)

10.3. Severity Levels and Performance Criterion

10.3.1. Severity level

Level	Field Strength (V/m)
1	1
2	3
3	10
X	Special

10.3.2. Performance criterion: A

10.4.EUT Configuration on Test

The configuration of EUT are listed in Section 2.1.

10.5.Operating Condition of EUT

10.5.1.Setup the EUT as shown in Section 7.1.

10.5.2.Turn on the power of all equipments.

10.5.3.Let the EUT work in test mode (On) and measure it.

10.6.Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. EUT is set 3 meter away from the transmitting antenna which is mounted on an antenna tower. Both horizontal and vertical polarization of the antenna are set on test. Each of the four sides of EUT must be faced this transmitting antenna and measured individually. In order to judge the EUT performance, a CCD camera is used to monitor EUT screen. All the scanning conditions are as follows:

Condition of Test	Remarks
-----	-----
1. Fielded Strength	3 V/m (Severity Level 2)
2. Radiated Signal	Unmodulated
3. Scanning Frequency	80 - 1000 MHz
4. Dwell time of radiated	0.0015 decade/s
5. Waiting Time	3 Sec.

10.7.Test Results

PASS.

Please refer to the following page.

RF Field Strength Susceptibility Test Results

Standard	<input type="checkbox"/> IEC 61000-4-3 <input checked="" type="checkbox"/> EN 61000-4-3		
Applicant	Production Unitary Enterprise «Elekt» Public Association «Belarussian Association of visually people» (Unitary Enterprise «Elekt» PA «Beltiz»)		
EUT	Sensor	Temperature	26°C
M/N	JL-082	Humidity	51%
Field Strength	3 V/m	Criterion	A
Test Mode	ON	Test Engineer	Liang
Frequency Range	80 MHz to 1000 MHz		
Modulation	<input type="checkbox"/> None <input type="checkbox"/> Pulse <input checked="" type="checkbox"/> AM 1KHz 80%		
Steps	1%		

	Horizontal	Vertical
Front	PASS	PASS
Right	PASS	PASS
Rear	PASS	PASS
Left	PASS	PASS

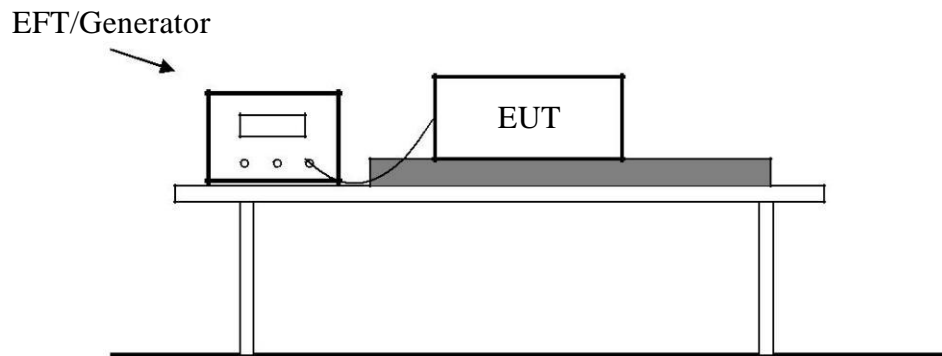
Test Equipment:

1. Signal Generator: 2031 (MARCONI)
2. Power Amplifier: 500A100 & 100W/1000M1 (A&R)
3. Power Antenna: 3108 (EMCO) & AT1080 (A&R)
4. Field Monitor: FM2000 (A&R)

Note:

11. ELECTRICAL FAST TRANSIENT/BURST TEST

11.1. Block Diagram of Test Setup



11.2. Test Standard

EN IEC 61547: 2023 (EN 61000-4-4: 2012, Severity Level: Level 2: 1KV)

11.3. Severity Levels and Performance Criterion

11.3.1. Severity level

Open Circuit Output Test Voltage $\pm 10\%$		
Level	On Power Supply Lines	On I/O (Input/Output) Signal data and control lines
1.	0.5 KV	0.25 KV
2.	1 KV	0.5 KV
3.	2 KV	1 KV
4.	4 KV	2 KV
x.	Special	Special

11.3.2. Performance criterion: **B**

11.4. EUT Configuration on Test

The configuration of EUT are listed in Section 3.9.

11.5. Operating Condition of EUT

11.5.1. Setup the EUT as shown in Section 11.1.

11.5.2. Turn on the power of all equipments.

11.5.3. Let the EUT work in test mode (ON) and measure it.

11.6.Test Procedure

The EUT is put on the table which is 0.8 meter high above the ground. This reference ground plane shall project beyond the EUT by at least 0.1m on all sides and the minimum distance between EUT and all other conductive structure, except the ground plane beneath the EUT, shall be more than 0.5m.

11.6.1.For input and output AC power ports:

The EUT is connected to the power mains by using a coupling device which couples the EFT interference signal to AC power lines. Both polarities of the test voltage should be applied during compliance test and the duration of the test is 2 mins.

11.6.2.For signal lines and control lines ports:

No I/O ports. It's unnecessary to test.

11.6.3.For DC output line ports:

It's unnecessary to test.

11.7.Test Results

PASS.

Please refer to the following page.

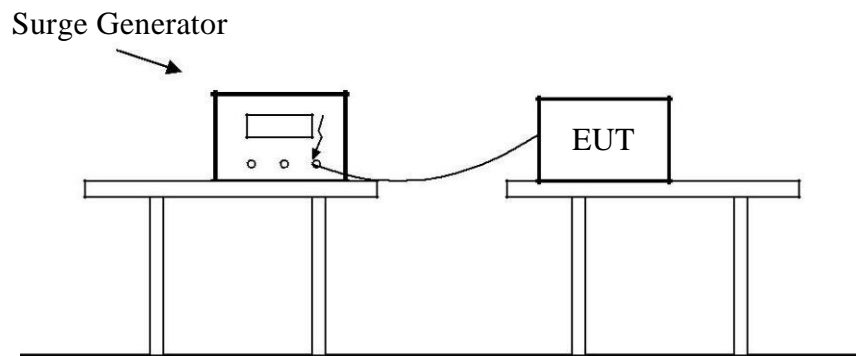
Electrical Fast Transient/Burst Test Results

Standard	<input type="checkbox"/> IEC 61000-4-4 <input checked="" type="checkbox"/> EN 61000-4-4		
Applicant	Production Unitary Enterprise «Elekt» Public Association «Belarussian Association of visually people» (Unitary Enterprise «Elekt» PA«Beltiz»)		
EUT	Sensor	Temperature	26℃
M/N	JL-082	Humidity	51 %
Criterion	B	Pressure	1021mbar
Test Mode	ON	Test Engineer	Liang

Line	Test Voltage	Result (+)	Result (-)
L	1KV	PASS	PASS
N	1KV	PASS	PASS
PE			
L-N	1KV	PASS	PASS
L-PE			
N-PE			
L-N-PE			
Signal Line			
I/O Cable			
Note:			

12. SURGE IMMUNITY TEST

12.1. Block Diagram of Test Setup



2.2. Test Standard

EN IEC 61547: 2023 (EN61000-4-5: 2014, Severity Level: Line to Line: Level 2, 1.0KV; Line to Earth: Level 3, 2.0KV)

12.3. Severity Levels and Performance Criterion

12.3.1. Severity level

Severity Level	Open-Circuit Test Voltage (KV)
1	0.5
2	1.0
3	2.0
4	4.0
*	Special

12.3.2. Performance criterion: **B**

12.4. EUT Configuration on Test

The configuration of EUT are listed in Section 3.10.

12.5.Operating Condition of EUT

12.5.1.Setup the EUT as shown in Section 12.1.

12.5.2.Turn on the power of all equipments.

12.5.3.Let the EUT work in test mode (ON) and measure it.

12.6.Test Procedure

12.6.1.Set up the EUT and test generator as shown on Section 12.1.

12.6.2.For line to line coupling mode, provide a0.5KV 1.2/50us voltage surge (at open-circuit condition) and 8/20us current surge to EUT selected points.

12.6.3.At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate are conducted during test.

12.6.4. Different phase angles are done individually.

12.6.5.Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

12.7.Test Results

PASS.

Please refer to the following page.

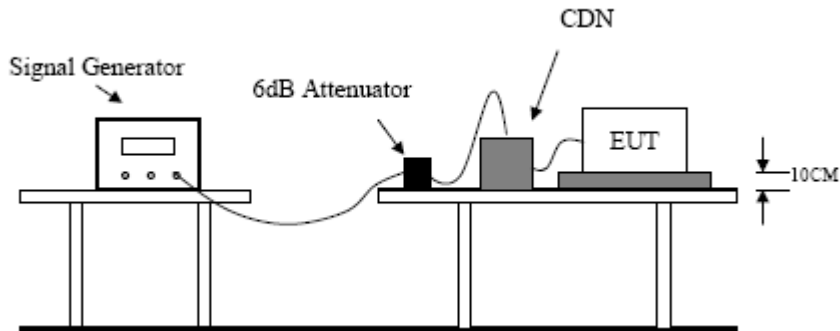
Electrical Fast Transient/Burst Test Results

Standard	<input type="checkbox"/> IEC 61000-4-5 <input checked="" type="checkbox"/> EN 61000-4-5		
Applicant	Production Unitary Enterprise «Elekt» Public Association «Belarussian Association of visually people» (Unitary Enterprise «Elekt» PA«Beltiz»)		
EUT	Sensor	Temperature	26℃
M/N	JL-082	Humidity	51 %
Criterion	B	Pressure	1021mbar
Test Mode	ON	Test Engineer	Liang

Location	Polarity	Phase Angle	Number of Pulse	Pulse Voltage (KV)	Result
L-N	+	0°	5	0.5	PASS
	+	90°	5	0.5	PASS
	+	180°	5	0.5	PASS
	+	270°	5	0.5	PASS
	-	0°	5	0.5	PASS
	-	90°	5	0.5	PASS
	-	180°	5	0.5	PASS
	-	270°	5	0.5	PASS
L-PE					
N-PE					
Signal Line					
Note					

13. INJECTED CURRENTS SUSCEPTIBILITY TEST

13.1. Block Diagram of Test Setup



13.2. Test Standard

EN IEC 61547: 2023 (EN 61000-4-6: 2014+A1: 2015 , Severity Level: 3V (rms), 0.15MHz ~ 80MHz)

13.3. Severity Levels and Performance Criterion

13.3.1. Severity level

Level	Field Strength (V)
1.	1
2.	3
3.	10
X	Special

13.3.2. Performance criterion: A

13.4. EUT Configuration on Test

The configuration of EUT are listed in Section 3.11.

13.5.Operating Condition of EUT

- 13.5.1.Setup the EUT as shown in Section 13.1.
- 13.5.2.Turn on the power of all equipments.
- 13.5.3.Let the EUT work in test mode (ON) and measure it.

13.6.Test Procedure

- 13.6.1.Set up the EUT, CDN and test generators as shown on Section 13.1.
- 13.6.2.Let the EUT work in test mode and measure it.
- 13.6.3.The EUT are placed on an insulating support 0.1m high above a ground reference plane.
CDN (coupling and decoupling device) is placed on the ground plane about 0.3m from EUT. Cables between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 30 and 50 mm (where possible).
- 13.6.4.The disturbance signal described below is injected to EUT through CDN.
- 13.6.5.The EUT operates within its operational mode(s) under intended climatic conditions after power on.
- 13.6.6.The frequency range is swept from 150kHz to 80MHz using 3V signal level, and with the disturbance signal 80% amplitude modulated with a 1kHz sine wave.
- 13.6.7.The rate of sweep shall not exceed 1.5×10^{-3} decades/s. Where the frequency is swept incrementally, the step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value.
- 13.6.8.Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.

13.7.Test Results

PASS.

Please refer to the following page.

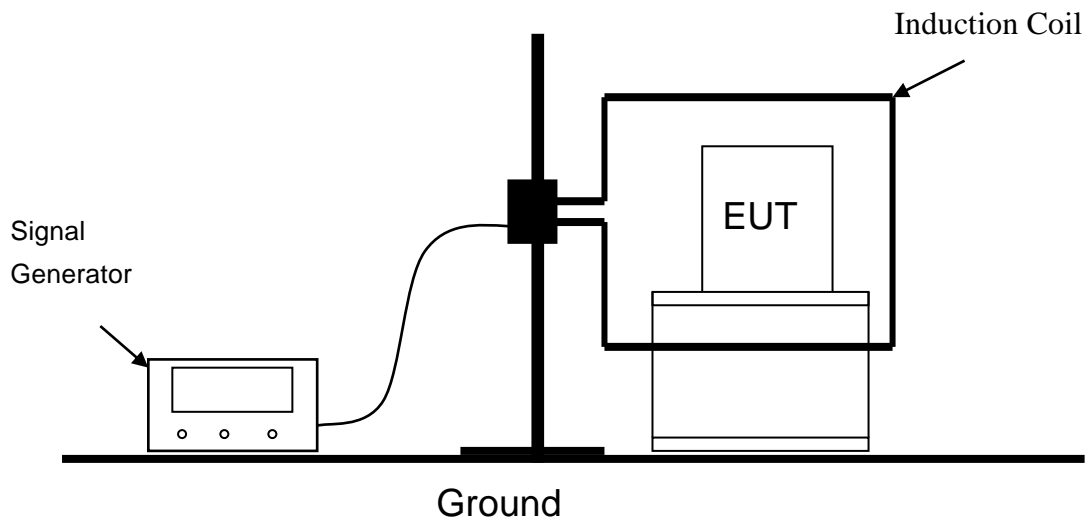
Injected Currents Susceptibility Test Results

Standard	<input type="checkbox"/> IEC 61000-4-6 <input checked="" type="checkbox"/> EN 61000-4-6		
Applicant	Production Unitary Enterprise «Elekt» Public Association «Belarussian Association of visually people» (Unitary Enterprise «Elekt» PA«Beltiz»)		
EUT	Sensor	Temperature	26℃
M/N	JL-082	Humidity	51%
Test Mode	Normal	Criterion	A
Test Engineer	Liang	Test Date	November 12, 2025

Frequency Range (MHz)	Injected Position	Strength (Unmodulated)	Criterion	Result
0.15 ~ 80	AC Mains	3V	A	PASS
Remark: Modulation Signal:1kHz 80% AM				
Note:				

14. MAGNETIC FIELD IMMUNITY TEST

14.1. Block Diagram of Test Setup



14.2. Test Standard

EN IEC 61547: 2023 (EN 61000-4-8: 2010, Severity Level 2: 3A/m)

14.3. Severity Levels and Performance Criterion

14.3.1. Severity level

Level	Magnetic Field Strength (A/m)
1.	1
2.	3
3.	10
4.	30
5.	100
X	Special

14.3.2. Performance criterion: A

14.4. EUT Configuration on Test

The configuration of EUT are listed in Section 3.12.

14.5.Operating Condition of EUT

- 14.5.1.Setup the EUT as shown in Section 14.1.
- 14.5.2.Turn on the power of all equipments.
- 14.5.3.Let the EUT work in test mode (On) and measure it.

14.6.Test Procedure

- 14.6.1.Set up the EUT system as shown on Section 14.1.
- 14.6.2.The Induction coil is set up in horizontal or vertical.
- 14.6.3.Let the EUT work in test mode and measure it.

14.7.Test Results

PASS.

Please refer to the following page.

Magnetic Field Immunity Test Result

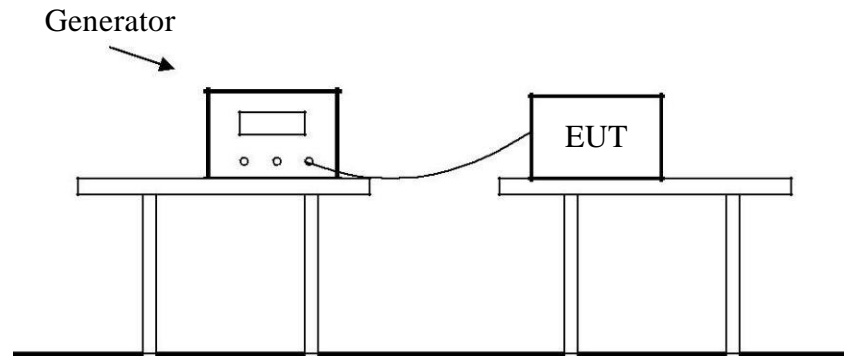
Standard	<input type="checkbox"/> IEC 61000-4-8 <input checked="" type="checkbox"/> EN 61000-4-8		
Applicant	Production Unitary Enterprise «Elekt» Public Association «Belarussian Association of visually people» (Unitary Enterprise «Elekt» PA«Beltiz»)		
EUT	Sensor	Temperature	26°C
M/N	JL-082	Humidity	51 %
Test Mode	Normal	Criterion	A
Test Engineer	Liang	Test Date	November 12, 2025

Test Level (A/M)	Testing Duration	Coil Orientation	Criterion	Result
3	5 mins	X	A	PASS
3	5 mins	Y	A	PASS
3	5 mins	Z	A	PASS

Note:

15. VOLTAGE DIPS AND INTERRUPTIONS TEST

15.1. Block Diagram of Test Setup



15.2. Test Standard

EN IEC 61547: 2023 (EN 61000-4-11: 2020)

15.3. Severity Levels and Performance Criterion

15.3.1. Severity level

Test Level (% U_T)	Voltage dip and short Interruptions (% U_T)	Duration (in period)
0	100	0.5
70	30	10

15.3.2. Performance criterion: **B&C**

15.4. EUT Configuration on Test

The configuration of EUT are listed in Section 3.13&3.14.

15.5.Operating Condition of EUT

15.5.1.Setup the EUT as shown in Section 15.1.

15.5.2.Turn on the power of all equipments.

15.5.3.Let the EUT work in test mode (ON) and measure it.

15.6.Test Procedure

15.6.1.Set up the EUT and test generator as shown on Section 15.1.

15.6.2.The interruptions is introduced at selected phase angles with specified duration.

15.6.3.Record any degradation of performance.

15.7.Test Result

PASS.

Please refer to the following page.

Magnetic Field Immunity Test Result

Standard	<input type="checkbox"/> IEC 61000-4-11 <input checked="" type="checkbox"/> EN 61000-4-11		
Applicant	Production Unitary Enterprise «Elekt» Public Association «Belarussian Association of visually people» (Unitary Enterprise «Elekt» PA«Beltiz»)		
EUT	Sensor	Temperature	26°C
M/N	JL-082	Humidity	51 %
Test Mode	Normal	Criterion	A
Test Engineer	Liang	Test Date	November 12, 2025

Test Level % U _T	Voltage Dips & Short Interruptions % U _T	Duration (in periods)	Criterion	Result
0	100	0.5P	B	PASS
70	30	10P	C	PASS

Note:

16. PHOTOGRAPH



Fig.1

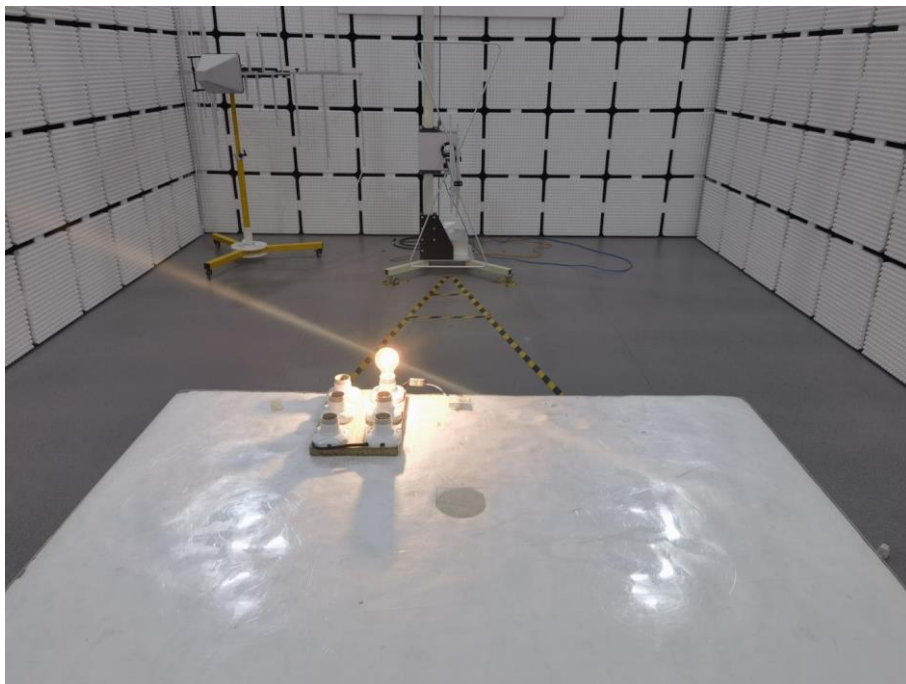


Fig.2

17. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

PHOTOS

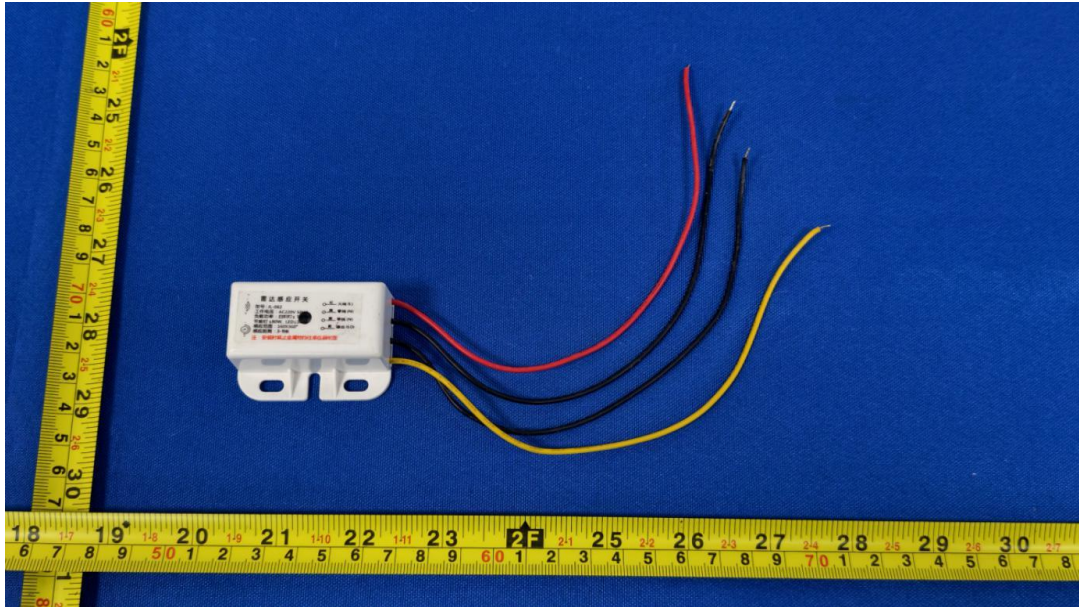


Fig. 1

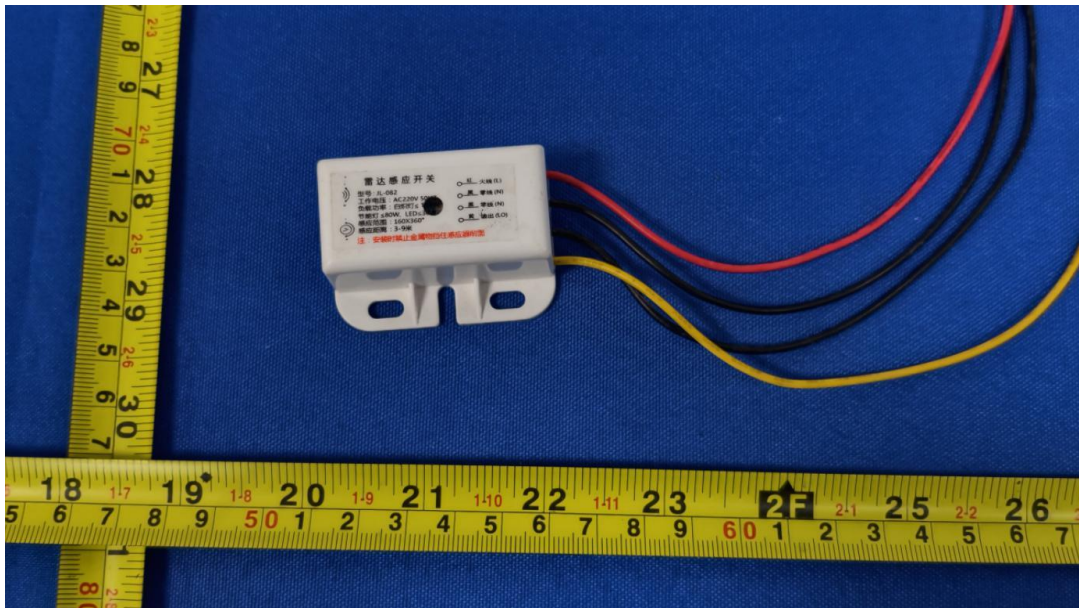


Fig.2

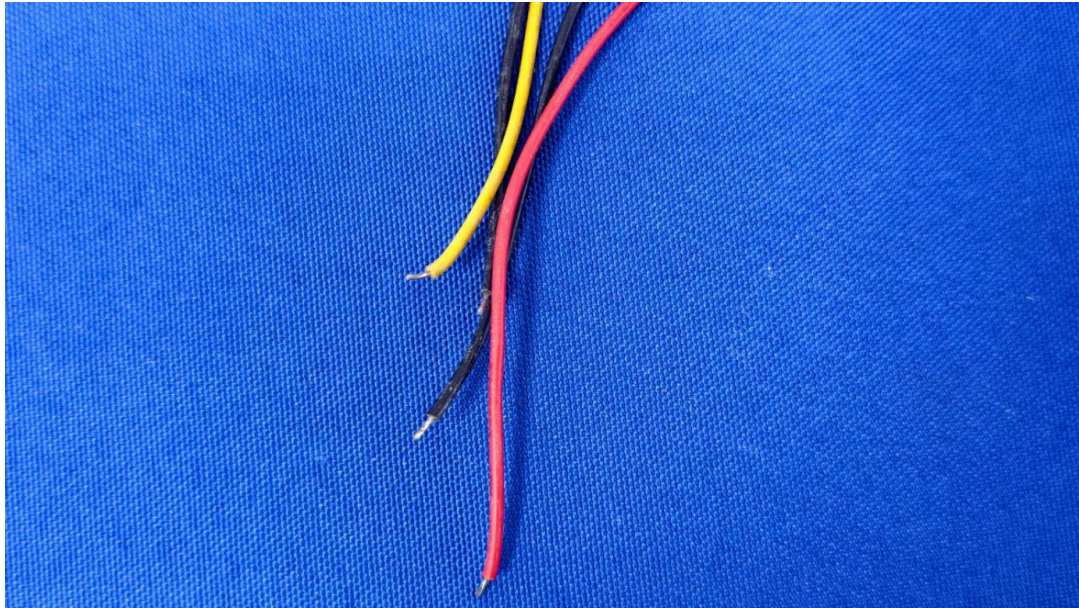


Fig.3

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