



FCC RF EXPOSURE REPORT

For

Door/Window Sensor

MODEL NUMBER: SSCA20BP4

FCC ID: 2AB2Q-SSCA20BP4

REPORT NUMBER: 4790976263.1-2

ISSUE DATE: October 16, 2023

Prepared for

LEEDARSON LIGHTING CO., LTD. Xingda Road, Xingtai Industrial Zone, Changtai County, Zhangzhou, Fujian, China

Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	October 16, 2023	Initial Issue	



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1. ATTESTATION OF TEST RESULTS

Applicant Informatio	n
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Company Name: Address: Manufacturer Information	LEEDARSON LIGHTING CO., LTD. Xingda Road, Xingtai Industrial Zone, Changtai County, Zhangzhou, Fujian, China
Company Name:	LEEDARSON LIGHTING CO., LTD.
Address:	Xingda Road, Xingtai Industrial Zone, Changtai County, Zhangzhou, Fujian, China
EUT Information	
EUT Name:	Door/Window Sensor
Model:	SSCA20BP4
Sample Received Date:	August 22, 2023

Sample Status: Sample ID: Date of Tested:

Normal 6378386 August 22, 2023~ October 16, 2023

APPLICABLE STANDARDS

STANDARD FCC 47CFR§2.1091 **TEST RESULTS** PASS

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091.

3. FACILITIES AND ACCREDITATION

Note: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China.



4. REQUIREMENT

LIMIT AND CALCULATION METHOD

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with. Limits for General Population/Uncontrolled Exposure

RF EXPOSURE LIMIT

Frequency Range (MHz)	E-field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm²)	Averaging Time E ², H ² or S (Minutes)
0.3 1.34	614	1.63	(100)*	30
1.34 30	824/f	2.19/f	(180/f ²)*	30
30 300	27.5	0.073	0.2	30
300 1500			f/1500	30
1500 100,000			1.0	30

CALCULATION METHOD

S=PG/4πR² Where: S=power density P=power input to antenna G=power gain of the antenna in the direction of interest relative to an isotropic radiator R=distance to the center of radiation of the antenna



CALCULATED RESULTS

FSK (Worst case)						
Operating	Max. Tune up Power	Antenna Gain		Power density	Limit	
Mode	(dBm)	(dBi)	(num)	(mW/ cm ²)		
FSK	-4	-1.05	0.79	0.00006	0.6	

Note: the calculated distance is 20 cm.

The max EIRP is $89.5 \text{ dB}\mu\text{V/m}$ at 3m transmit power(eirp) Max EIRP= $89.5 \text{ dB}\mu\text{V/m} = 89.5-95.2 \text{ dBm} = -5.7 \text{ dBm}$ Max Conducted power=-5.7-(-1.05) = -4.65 dBm So, the maximum tune up power is -4 dBm.

END OF REPORT