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SAFETY TEST REPORT

MEASUREMENT AND TEST REPORT

For

Shenzhen Karsun Access Technology Co.,Ltd.	
F1- F3 , Building A2, Silicon Valley Power Digital Industrial Park, Guanlan Street, Longhua, Shenzhen, Guang Dong, China.518000	
Models:	JS-SGZ001
Additional model:	JS-SGZ001 , JS-SGZ002 , JS-SGZ003 , JS-SGZ003C , JS-SGZ004 , JS-SGZ006 , JS-SGZ016 , JS-SGZ017 , JS-SGZ0187 , JSTD3263-22 , JSTD3220-23 , JSSGZ018 , JS-LG01 , JS-YZ002 , JS-YZ003 , JS-WZ001, JS-WZ002, JS-SGZ019, JS-SGZ020
Equipment Type:	Tripod Turnstile
Test Standard:	EN IEC 62368-1:2018
Report Number:	GBT5020673657
Test Date:	2025-09-15 to 2025-09-23
Prepared By:	Guangdong Baotong Quality Inspection Co.,Ltd. Room 802,Building 22 CIMC Intelligent Manufacturing Center,No.15.Shunye West Road,Xingtan,Shunde District,Foshan,Guangdong.China
Date of issue	2025-09-23

Tested by: *Uved*Reviewer: *shudwg*Approved: *karow*

EMC TEST REPORT

Applicant

name.....: Shenzhen Karsun Access Technology Co.,Ltd.
Address.....: F1- F3 , Building A2, Silicon Valley Power Digital Industrial Park,
Guanlan Street, Longhua, Shenzhen, Guang Dong, China.518000

Test specification:

Standard.....: EN IEC 62368-1:2018

Test procedure.....: Type Test

Non-standard test method.....: N/A

Test item

Description.....: Tripod Turnstile

Model and/or type reference.....: See page 1

Additional model.....: See page 1

Trade mark: Karsun

Rated voltage: /

Manufacturer: Shenzhen Karsun Access Technology Co.,Ltd.

Address: F1- F3 , Building A2, Silicon Valley Power Digital Industrial Park,
Guanlan Street, Longhua, Shenzhen, Guang Dong, China.518000

Test item particulars

Classification of installation and use: N/A

Supply Connection.....: N/A

Possible test case verdicts

- test case does not apply to the test object : N(.A)

- test object does meet the requirement : P(Pass)

- test object does not meet the requirement : F(Fail)

Summary of testing:

The product has been tested according to standard
EN IEC 62368-1:2018

- Maximum ambient temperature: +25°C
- Tested for moderate conditions

Copy of marking plate

Tripod Turnstile

Model: JS-SGZ001, JS-SGZ002, JS-SGZ003, JS-SGZ003C, JS-SGZ004, JS-SGZ006, JS-SGZ016, JS-SGZ017, JS-SGZ0187, JSTD3263-22, JSTD3220-23, JSSGZ018, JS-LG01, JS-YZ002, JS-YZ003, JS-WZ001, JS-WZ002, JS-SGZ019, JS-SGZ020

Rating(s): 220-240V~, 50/60Hz, 30W, Class I



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Serial No.	Test Item	Test Requirement	Test Result & Description	Judgment
1.	Appearance Check	The equipment surface shall be flat, clean, free of defects such as burrs, flash, sand holes, air bubbles, etc., free from scratches, abrasions, deformation, damage, rust, corrosion, leakage, or traces of exudate, and free from sharp protrusions, edges, or corners. Transparent materials shall have no obvious cavities, bubbles, flow lines, or embedded impurities. Plating and coating surfaces shall show no traces of rework, no embedded or adhered impurities, and no phenomena such as cracks, blistering, or surface peeling.	Compliant	Qualified
2.	Marking Check	Equipment markings shall include the following: Product name and model; Manufacturer's name or trademark; Safety warning words or symbols to prevent hand pinching for barrier-type equipment; Safety warning words or symbols to prevent scalding for outdoor equipment; Dangerous voltage marking; Safety grounding marking.	Compliant	Qualified
		Markings may include the following: Nature and polarity of power supply; Rated voltage of power supply; Nature and function of terminals; Rated power of the equipment.	Compliant	Qualified
		Markings on the equipment shall not be easily erased, and abrasion resistance shall comply with the requirements of 5.3.2 in GB 16796-2009.	Compliant	Qualified
3.	Structural Check	Opening the equipment housing shall require special tools; The body shall have a structure for secure installation; SUS304 stainless steel body thickness $\geq 1.2\text{mm}$; Top cover thickness $\geq 1.5\text{mm}$; Stainless steel thickness tolerance: $\pm 0.12\text{mm}$.	Stainless steel thickness: Deviation: -0.09mm	Qualified
		The barrier part shall be made of materials or structures that are not easily broken and do not cause injury; The movement of the barrier part shall be flexible without obstruction.	Compliant	Qualified
4.	Equipment Protection Level Test	Outdoor equipment: IP65	Compliant	Qualified

5.	Protection Level Test for Enclosure Against External Mechanical Impacts	The personnel passage detection part and indication part of the equipment housing shall meet IK04 requirements; Other surfaces shall meet IK07 requirements; After the test, the equipment shall show no obvious mechanical damage or deformation and shall function normally.	Compliant	Qualified
6.	Warning Function Check	The equipment shall provide a warning when one of the following situations occurs: -- No authorized passage signal is received, and the equipment detects personnel entering the passage; -- An authorized passage signal is received, and the equipment detects personnel entering the passage in the reverse direction; -- The equipment fails the power-on self-test; -- The barrier part does not operate to the designated position; -- The actual time for personnel to pass through the channel exceeds the set allowable passage time. When the equipment is in a warning state, it can be set not to accept authorized passage commands.	Compliant	Qualified
7.	Authorized Passage / Prohibited Passage Function Check	Upon receiving an authorized passage / prohibited passage input signal from manual operation or an access control system, the equipment enters the authorized passage / prohibited passage state; In the prohibited passage state, upon receiving an authorized passage state signal and switching to the authorized passage state, the equipment automatically returns to the prohibited passage state under the following conditions: -- When personnel are detected to have passed through the channel in the specified direction within the allowed passage time; -- When the allowed passage time is exceeded and no personnel are detected in the channel. The equipment shall be configurable to remain continuously in the authorized passage state or prohibited passage state.	Compliant	Qualified
8.	Emergency Release Function Check	The equipment can be in a non-barrier state after power failure or malfunction.	Compliant	Qualified
9.	Self-test Function	The equipment shall have self-test functions	Compliant	Qualified

	Check	for control, drive, barrier, and visual/auditory indication parts, with corresponding actions or indications.		
10.	Anti-tailgating Function Check	Enterprise Technical Requirement: The equipment may have an anti-tailgating function: When the sample under test receives only an authorized passage command and is in the authorized passage state, two testers enter the channel in the same direction with an interval not greater than 100mm; Or when the number of personnel authorized by this passage command pass first, followed by a non-authorized person, with an interval not greater than 100mm; Equipment with anti-tailgating function shall warn of tailgating events.	Compliant	Qualified
11.	Visual/Auditory Indication Function Check	The equipment provides different visual/auditory indications for its working status, operations, and results. Standby is indicated by a blue light, entry/exit authorized passage by green, prohibited passage/warning by red; The auditory indication during warning shall be distinctly different from other indications.	Compliant	Qualified
12.	Factory Reset Function Check	The equipment shall have a function to restore factory default settings.	Compliant	Qualified
13.	Opening Time Check	The opening time of the equipment should preferably be $\leq 3s$ and adjustable.	1.0s~99s adjustable	Qualified
14.	Closing Time Check	The closing time of the equipment should preferably be $\leq 3s$ and adjustable.	1.0s~99s adjustable	Qualified
15.	Allowed Entry Time Check	The allowed entry time of the equipment should preferably be in the range of 1s (inclusive) to 99s (inclusive) and adjustable.	1s~99s adjustable	Qualified
16.	Allowed Passage Time Check	The allowed passage time of the equipment should preferably be in the range of 1s (inclusive) to 99s (inclusive) and adjustable.	1s~99s adjustable	Qualified
17.	Passage Speed	Passage speed is 20-45 persons/min.	Compliant	Qualified
18.	Opening Speed Check	Maximum opening speed is 0.55s.	Compliant	Qualified
19.	Noise Check	Instantaneous maximum noise sound pressure is less than 65 dB(A).	56.7 dB(A)	Qualified
		Continuous noise sound pressure is less than 60 dB(A).	55 dB(A)	Qualified
20.	Visual Indication	Indicator lights shall be clearly visible within	Compliant	Qualified

	Check	a 22.5° viewing angle in front of the equipment at a distance of 3m; Displayed symbols or text shall be readable within a 22.5° viewing angle in front of the equipment at a distance of 0.8m.		
21.	Auditory Indication Sound Pressure Check	The auditory indication sound pressure should preferably be in the range of 60 dB(A) (inclusive) to 90 dB(A) and adjustable.	72 dB(A)	Qualified
22.	Communication Control Interface Check	The equipment has switch signal input interfaces.	Compliant	Qualified
		The equipment can support one or more communication interfaces, such as RS485/232/422, Ethernet, CAN bus, etc.	RS485/232, Ethernet	Qualified
23.	Passage Safety Check	For outdoor equipment, the housing and barrier parts use materials with poor thermal conductivity, or adopt thermal insulation protection measures, or treatment processes that reduce the surface thermal conductivity of the equipment.	Compliant	Qualified
		Opening the equipment housing should preferably have protective measures to avoid injury from equipment components.	Compliant	Qualified
		During the movement of the barrier part, if a person is detected in the movement area of the channel barrier part, the barrier part shall stop moving or automatically move to the authorized passage state.	Compliant	Qualified
		The product manual clearly states that after equipment installation, the equipment management party can post corresponding passage safety signs, and it is advisable to remind the elderly and children to pass under supervision.	Compliant	Qualified
24.	Remote Opening Function Check	Enterprise Technical Requirement: Supports remote opening, emergency opening, emergency closing, and restoring door to normal state via management software; Supports remote opening, remote closing, constant open, and constant close via remote controller.	Compliant	Qualified
25.	Infrared Quantity Check	Enterprise Technical Requirement: 12 pairs of infrared (infrared quantity optional).	Compliant	Qualified
26.	Illegal Behavior Capture Function	Enterprise Technical Requirement: When the equipment detects illegal intrusion or	Compliant	Qualified

	Check	climbing over, it can link with a camera for image capture, and a pop-up window displays the captured image on the computer client. The image file is automatically saved on the client computer. The captured image resolution is 1920x1080 (customized optional).		
27.	Infrared Anti-pinch Function Check	1. During the closing process, if an anti-pinch infrared signal is detected, the door stops; after the signal disappears, it continues to close. 2. During the closing process, if an anti-pinch infrared signal is detected, the door opens first; after the signal disappears, it continues to close.	Compliant	Qualified
28.	Voice Prompt Function Check	The equipment integrates a voice module, which can play reminder voice prompts according to different events combined with user settings. The types of voice announcements supported are no less than 40 optional types, switchable between Chinese and English.	Compliant	Qualified
29.	Statistical Function Check	Supports people counting function, can count separately for entry and exit directions, and can be cleared (optional).	Compliant	Qualified
30.	Access Controller Storage Capacity Test	Enterprise Technical Requirement: The access controller should support up to 200,000 card management and 500,000 event record storage.	Compliant	Qualified
31.	Opening Method Function Check	Supports face recognition, IC card, ID card, and other verification methods for opening.	Compliant	Qualified
32.	Permission Management Function Check	Enterprise Technical Requirement: Should be able to perform authorization management through the client to achieve management such as allowing or disallowing passage for personnel, or allowing passage only within permitted time periods.	Compliant	Qualified
33.	Lighting Function Check	Light strip options: Single-color light, dual-color light, three-color light, three-color flashing light.	Compliant	Qualified
34.	Self-test and Fault Reporting Function Check	Enterprise Technical Requirement: Should have component self-test function, can display fault codes on the main board screen, and can realize fault voice announcement. Fault detection types should at least include motor fault, infrared fault, etc.	Compliant	Qualified

35.	Mean Time Between Failures (MTBF) Check	≥ 10 million cycles.	Compliant	Qualified
36.	Repeated Opening/Closing Cycles Check	≥ 10 million cycles.	Compliant	Qualified
37.	Operating Voltage Check	Rated operating voltage: 24VDC; Motor operating voltage: 24VDC.	Compliant	Qualified
38.	Single Motor Rating Check	Single motor rated power: ≤100W, maximum overload power 300W; Single motor rated operating current: ≤4A.	Compliant	Qualified
39.	Power Supply Voltage Adaptation Range Test	AC: 110V~242V.	Compliant	Qualified
40.	Electrostatic Discharge Immunity Test	Air discharge level: 2kV, 4kV, and 8kV; Contact discharge level: 6kV; Number of discharges per voltage level and polarity at each discharge point: 10 times; During the test, the equipment shall not produce malfunction or false warning. After the test, the equipment shall function normally.	Compliant	Qualified
41.	Surge Immunity Test	AC power line: Line-to-line 0.5kV and 1kV; Line-to-ground 0.5kV, 1kV, and 2kV; Number of surge applications per polarity: 20 times; Other power/signal lines: Line-to-ground: 0.5kV and 1kV; Number of surge applications per polarity: 5 times; During the test, the equipment shall not produce malfunction or false warning. After the test, the equipment shall function normally.	Compliant	Qualified
42.	Electrical Fast Transient/Burst Immunity Test	Test voltage: AC ±2kV, DC and signal ports ±1kV; Number of tests: 1 time; Test duration: 1min; During the test, the equipment shall not produce malfunction or false warning. After the test, the equipment shall function normally.	Compliant	Qualified
43.	Voltage Dips and Short Interruptions Immunity Test	Voltage dip: 30% of rated voltage (U), 0.5 cycles; 60% of U, 5 cycles; During the test, the equipment shall not produce malfunction or false warning; After the test, the equipment shall function normally.	Compliant	Qualified
		Short interruption: 5% of U, 250 cycles; During the test, equipment functions are allowed to be temporarily lost but shall recover automatically; After the test, the	Compliant	Qualified

		equipment shall function normally.		
44.	Insulation Resistance Test	Damp heat condition $\geq 2M\Omega$.	>500 M Ω	Qualified
45.	Leakage Current Test	$\leq 5mA$ (AC, peak).	0.43 mA	Qualified
46.	Protective Earthing Terminal Test	The connection between the equipment and AC power supply shall adopt a method where the working neutral line and protective earth line are strictly separated, i.e., the TN-S system. The equipment shall have a protective earthing terminal, which shall have a conductive and reliable direct connection to accessible conductive parts, with a contact resistance not greater than 0.1 Ω .	Compliant	Qualified
47.	Temperature Rise Test	Under normal working conditions, the surface temperature of the equipment housing shall not exceed 65°C. After internal heating components work continuously for 4 hours, their temperature rise shall not exceed the specified value for that component.	Compliant	Qualified
48.	Electric Strength Test	1.5KV, 1min, no breakdown or flashover.	Compliant	Qualified
49.	Protection Against Electric Shock of Accessible Parts Test	The equipment shall be equipped with a protective earthing terminal or connection, reliably connecting accessible conductive parts to the earthing terminal or connection of the output socket.	Compliant	Qualified
50.	High Temperature Test	(+75 \pm 2)°C, 2h	Compliant	Qualified
51.	Low Temperature Test	(-25 \pm 2)°C, 2h	Compliant	Qualified
52.	Damp Heat, Steady State Test	(93 \pm 3)% relative humidity, (+40 \pm 2)°C, 48h	Compliant	Qualified

*****END OF REPORT*****