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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-XBZ004
Additional model:	JS-STZ003,JSTD9162-21,JSTD9151-21,JSTD92002-21,JS-ETZ008,JS-XBZ001,JS-XBZ002,JS-XBZ003,JS-XBZ004,JS-XBZ005,JS-XBZ006,JS-XBZ007,JS-XBZ008,JS-XBZ009,JS-XBZ010,JS-XBZ020,JS-XBZ021
Equipment Type:	Swing turnstile gate
Test Standard:	EN IEC 62368-1:2018
Report Number:	GBT50306731009
Test Date:	2026.03.03 to 2026.03.10
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	2026.03.10

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

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.....: Swing turnstile gate

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

Swing turnstile gate
Model:JS-XBZ004
Rating(s): /



Shenzhen Karsun Access Technology Co.,Ltd
Made In China

No.	Test Item	Test Requirements	Test Result Description	Judgment
1.	Appearance Inspection	The equipment surface shall be flat, clean, free of burrs, flash, sand holes, air bubbles, scratches, deformation, damage, rust, corrosion, leakage, exudation marks, 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 repair marks, embedded or adhered impurities, cracks, blistering or peeling.	Compliant	Qualified
2.	Marking Inspection	Equipment markings shall include: product name, model; manufacturer's name or trademark; safety warning text or symbol for pinch hazards (for barrier-type equipment); safety warning text or symbol for burn hazards (for outdoor equipment); hazardous voltage symbol, protective earth symbol.	Compliant	Qualified
		Markings may also include: power supply type and polarity; rated supply voltage; terminal nature and function; equipment rated power.	Compliant	Qualified
		Markings on equipment shall be durable and resistant to rubbing, meeting GB 16796-2009 clause 5.3.2.	Compliant	Qualified
3.	Structural Inspection	Equipment enclosure shall require special tools to open; body shall have a structure for secure installation; SUS304 stainless steel body thickness $\geq 1.2\text{mm}$; cover thickness $\geq 1.5\text{mm}$; stainless steel thickness tolerance: $\pm 0.12\text{mm}$.	Stainless steel thickness deviation: -0.09mm	Qualified
		Barrier parts shall use materials or structures that are not easily broken or harmful; barrier movement shall be flexible without obstruction.	Compliant	Qualified
4.	Equipment Protection Level Test	Outdoor equipment: IP65	Compliant	Qualified
5.	Enclosure Protection Against Mechanical Impact Test	Personnel detection part and indication part of enclosure shall meet IK04; other surfaces shall meet IK07; after test, equipment shall show no obvious mechanical damage or deformation and shall operate normally.	Compliant	Qualified
6.	Warning Function	Equipment shall provide warning in the	Compliant	Qualified

	Check	following cases: – No authorized passage signal received, but personnel detected entering passage; – Authorized passage signal received, but personnel detected entering in reverse direction; – Equipment startup self-test fails; – Barrier part does not reach proper position; – Actual passage time exceeds set allowed passage time. Equipment in warning state can be set to not accept authorized passage commands.		
7.	Authorized/Prohibited Passage Function Check	Upon receiving manual operation or access control system signal for authorized/prohibited passage, equipment enters corresponding state; when switching from prohibited to authorized state, equipment automatically returns to prohibited state if: – Personnel pass in specified direction within allowed time; – Allowed time expires with no personnel in passage. Equipment can be set to remain continuously in authorized or prohibited state.	Compliant	Qualified
8.	Emergency Release Function Check	Equipment shall enter unblocked state after power loss or malfunction.	Compliant	Qualified
9.	Self-test Function Check	Equipment shall have self-test function for control, drive, barrier, and visual/auditory indication parts, with corresponding actions or indications.	Compliant	Qualified
10.	Anti-tailgating Function Check	Enterprise technical requirement: Equipment should have anti-tailgating function: when two testers enter passage in same direction with $\leq 100\text{mm}$ interval under authorized passage signal, or when an unauthorized person follows closely behind authorized person(s) with $\leq 100\text{mm}$ gap, equipment with anti-tailgating function shall warn of tailgating event.	Compliant	Qualified
11.	Visual/Auditory Indication Function Check	Equipment provides different visual/auditory indications for status, operation, and results: standby – blue light; authorized passage – green; prohibited passage/warning – red; auditory warning shall be distinct from other indications.	Compliant	Qualified
12.	Factory Reset Function Check	Equipment shall have function to restore factory default settings.	Compliant	Qualified
13.	Opening Time Check	Equipment opening time should be $\leq 3\text{s}$ and	1.0s~99s	Qualified

		adjustable.	adjustable	
14.	Closing Time Check	Equipment closing time should be $\leq 3s$ and adjustable.	1.0s~99s adjustable	Qualified
15.	Allowed Entry Time Check	Equipment allowed entry time should be within 1s (inclusive) to 99s (inclusive) and adjustable.	1s~99s adjustable	Qualified
16.	Allowed Passage Time Check	Equipment allowed passage time should be within 1s (inclusive) to 99s (inclusive) and adjustable.	1s~99s adjustable	Qualified
17.	Passage Speed	Passage speed: 20-45 persons/min.	Compliant	Qualified
18.	Door Opening Speed Check	Fastest opening speed: 0.55s.	Compliant	Qualified
19.	Noise Check	Instantaneous maximum noise sound pressure $< 65dB(A)$.	56.7dB(A)	Qualified
		Continuous noise sound pressure $< 60dB(A)$.	55dB(A)	Qualified
20.	Visual Indication Check	Indicator lights shall be clearly visible within 22.5° frontal viewing angle at 3m distance; displayed symbols or text shall be readable within 22.5° frontal viewing angle at 0.8m distance.	Compliant	Qualified
21.	Auditory Indication Sound Pressure Check	Auditory indication sound pressure should be 60dB(A) (inclusive) to 90dB(A) and adjustable.	72dB(A)	Qualified
22.	Communication Control Interface Check	Equipment has switch signal input interface.	Compliant	Qualified
		Equipment can support one or more communication interfaces, e.g., RS485/232/422, Ethernet, CAN bus, etc.	RS485/232, Ethernet	Qualified
23.	Passage Safety Check	Outdoor equipment enclosure and barrier parts use materials with low thermal conductivity, or adopt thermal insulation measures, or treatment processes that reduce surface thermal conductivity.	Compliant	Qualified
		Equipment enclosure opening should have protective measures to avoid injury from components.	Compliant	Qualified
		During barrier movement, if a person is detected in the barrier movement area, barrier shall stop or automatically move to authorized passage state.	Compliant	Qualified
		Product manual should indicate that after installation, management can post corresponding passage safety signs, and recommend that elderly and children pass under supervision.	Compliant	Qualified

24.	Remote Door Opening Function Check	Enterprise technical requirement: Supports remote opening, emergency opening, emergency closing, and normal state restoration via management software; supports remote opening, remote closing, constant open, constant close via remote controller.	Compliant	Qualified
25.	Infrared Quantity Check	Enterprise technical requirement: 12 pairs of infrared (infrared quantity configurable).	Compliant	Qualified
26.	Illegal Behavior Capture Function Check	Enterprise technical requirement: When equipment detects illegal intrusion or climbing, it can trigger camera to capture images, with pop-up display on client PC; image files automatically saved on client PC; capture resolution 1920x1080 (customizable option).	Compliant	Qualified
27.	Infrared Anti-pinch Function Check	1. During closing, if anti-pinch infrared signal detected, door stops; after signal disappears, closing resumes. 2. During closing, if anti-pinch infrared signal detected, door opens first; after signal disappears, closing resumes.	Compliant	Qualified
28.	Voice Prompt Function Check	Equipment integrates voice module, can play reminder voice according to different events and user settings; supports ≥40 selectable voice types; Chinese/English switchable.	Compliant	Qualified
29.	Counting Function Check	Supports people counting function, can count separately for entry/exit directions, and can be cleared (optional).	Compliant	Qualified
30.	Access Controller Storage Capacity Test	Enterprise technical requirement: Access controller should support up to 200,000 card records and 500,000 event records.	Compliant	Qualified
31.	Door Opening Method Function Check	Supports face recognition, IC card, ID card, etc. for door opening.	Compliant	Qualified
32.	Permission Management Function Check	Enterprise technical requirement: Should enable authorization management via client, allowing passage permission settings (allowed/not allowed/time-limited passage).	Compliant	Qualified
33.	Lighting Function Check	Light strip options: single-color, dual-color, tri-color, tri-color flashing.	Compliant	Qualified
34.	Self-test and Fault Reporting Function Check	Enterprise technical requirement: Should have component self-test function, can display fault codes on main board screen, and support fault voice broadcast; fault detection types should include motor fault,	Compliant	Qualified

		infrared fault, etc.		
35.	Mean Time Between Failures 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 Range Test	AC: 110V~242V.	Compliant	Qualified
40.	Electrostatic Discharge Immunity Test	Air discharge levels: 2kV, 4kV, 8kV; Contact discharge level: 6kV; Discharge count per level and polarity at each point: 10 times; During test, equipment shall not malfunction or give false warnings; after test, shall operate normally.	Compliant	Qualified
41.	Surge Immunity Test	AC power lines: line-to-line 0.5kV and 1kV; line-to-ground 0.5kV, 1kV, and 2kV; surge count per polarity: 20 times; Other power/signal lines: line-to-ground 0.5kV and 1kV; surge count per polarity: 5 times; During test, equipment shall not malfunction or give false warnings; after test, shall operate normally.	Compliant	Qualified
42.	Electrical Fast Transient/Burst Immunity Test	Test voltage: AC ±2kV, DC and signal ports ±1kV; Test count: 1 time; Test duration: 1min; During test, equipment shall not malfunction or give false warnings; after test, shall operate normally.	Compliant	Qualified
43.	Voltage Dips and Short Interruptions Immunity Test	Voltage dips: 30%U, 0.5 cycle; 60%U, 5 cycles; During test, equipment shall not malfunction or give false warnings; after test, shall operate normally.	Compliant	Qualified
		Short interruption: 5%U, 250 cycles; During test, functions may temporarily fail but shall recover automatically; after test, shall operate normally.	Compliant	Qualified
44.	Insulation Resistance Test	Damp heat condition ≥2MΩ.	>500MΩ	Qualified
45.	Leakage Current Test	≤5mA (AC, peak).	0.43mA	Qualified
46.	Protective Earth Terminal Test	AC power connection shall use separate neutral and protective earth conductors (TN-	Compliant	Qualified

		S system). Equipment shall have protective earth terminal with low-resistance connection ($\leq 0.1\Omega$) to accessible conductive parts.		
47.	Temperature Rise Test	Under normal operation, enclosure temperature shall not exceed 65°C ; after 4h continuous operation, temperature rise of internal heating components shall not exceed specified limits.	Compliant	Qualified
48.	Electric Strength Test	1.5KV, 1min, no breakdown or flashover.	Compliant	Qualified
49.	Protection Against Electric Shock of Accessible Parts Test	Equipment shall have protective earth terminal or connection, reliably connecting accessible conductive parts to output socket earth terminal or connection.	Compliant	Qualified
50.	High Temperature Test	$(+75\pm 2)^{\circ}\text{C}$, 2h	Compliant	Qualified
51.	Low Temperature Test	$(-25\pm 2)^{\circ}\text{C}$, 2h	Compliant	Qualified
52.	Damp Heat Test	$(93\pm 3)\%rh$, $(+40\pm 2)^{\circ}\text{C}$, 48h	Compliant	Qualified



Sample pictures

数据测量

设备名称: UT353BT

报告名称: UT353BT_202508231713
25

记录间隔: 1 sec

数据量: 10

开始时间: 2025-08-23
17:12:41结束时间: 2025-08-23
17:12:51

最大值: 56.7dBA

预警最大值: 0.0dBA

最大值T:

预警最大值T:

最小值: 46.3dBA

预警最小值: 0.0dBA

最小值T:

预警最小值T:



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