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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	
<b>Models:</b>	JS-PYZ018
<b>Additional model:</b>	JS-PYZ001,JS-PYZ002,JS-PYZ003,JS-PYZ004,JS-PYZ005,JS-PYZ006,JS-PYZ007,JS-PYZ008,JS-PYZ009,JS-PYZ010,JS-PYZ011,JS-PYZ012,JS-PYZ013,JS-PYZ014,JS-PYZ015,JS-PYZ016,JS-PYZ017,JS-PYZ018
<b>Equipment Type:</b>	Sliding turnstile gate
<b>Test Standard:</b>	EN IEC 62368-1:2018
<b>Report Number:</b>	GBT50306731011
<b>Test Date:</b>	Mar.11,2026 to Mar.17,2026
<b>Prepared By:</b>	<b>Guangdong Baotong Quality Inspection Co.,Ltd.</b> Room 802,Building 22,CIMC Intelligent Manufacturing Center,No.15.Shunye West Road,Xingtan,Shunde District.Foshan,Guangdong.China
<b>Date of issue</b>	Mar.17,2026

Tested by: *Uved*Reviewer: *Shudus*Approved: *Karen*

## 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.....: Sliding 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**

Sliding turnstile gate  
Model:JS-PYZ018  
Rating(s): /



Shenzhen Karsun Access Technology Co.,Ltd  
Made In China

Detection result				
NO.	Surveillance project	Test requirements document	Test Results-Description	Judge
1.	appearance inspection	<p>The exterior appearance of the device shall be smooth and clean, free from defects such as burrs, flash, sand holes, or pores, and free from scratches, abrasions, deformation, damage, rusting, corrosion, leakage, or traces of precipitates. It shall also be free from sharp protrusions, edges, or corners.</p> <p>The interior of transparent materials shows no obvious voids, bubbles, fluid streaks, or impurities.</p> <p>The coating and surface of the coated layer show no traces of post-processing, no embedded or adhered impurities, and no phenomena such as cracks, bubbling, or surface delamination.</p>	accord with	qualified
2.	Flag check	<p>Device identifiers include the following:                      Product name, specification model;                      Name or trademark of the manufacturer;                      Blocking-type equipment shall be equipped with safety warning phrases or symbols to prevent hand entrapment.                      Outdoor equipment shall be equipped with safety warning phrases or symbols to prevent burns;                      Dangerous voltage signs and safe grounding signs.</p>	accord with	qualified
		<p>The sign should include the following:                      The nature and polarity of the power supply;                      The rated voltage of the power supply;                      Properties and functions of terminal blocks;                      The rated power of the device.</p>	accord with	qualified
		<p>The markings on the device are resistant to erasure, with abrasion resistance meeting the requirements specified in Section 5.3.2 of GB 16796-2009.</p>	accord with	qualified
3.	Structural and material inspection	<p>The fuselage is constructed with SUS304 steel material.</p> <p>The aircraft fuselage features a robust mounting structure;</p> <p>Non-detachable housing structure: The casing must be opened using specialized tools;</p>	accord with	qualified

**Detection result**

NO.	Surveillance project	Test requirements document	Test Results-Description	Judge
		<p>The thickness of steel side panels shall be <math>\geq 1.5\text{mm} \pm 0.12\text{mm}</math>.</p> <p>The thickness of steel roof cover plates shall be <math>\geq 1.5\text{mm} \pm 0.12\text{mm}</math>.</p>	Stainless steel thickness: bias -0.09mm	qualified
		The barrier section is constructed with 10mm-14mm thick acrylic material, which is resistant to breakage and poses minimal risk of injury.	10mm	qualified
4.	Channel dimensional inspection	Dimensions: 1400 mm in length $\times$ 330 mm in width $\times$ 1000 mm in height; the channel baffle is made of acrylic or tempered glass.	accord with	qualified
5.	Equipment Shell Protection Level Test	Outdoor equipment: IP65	accord with	qualified
6.	Protection Level Test of Outer Shell against External Mechanical Impact	<p>The personnel access detection and indication components of the device's outer casing comply with IK04 requirements.</p> <p>Other surfaces comply with IK07 requirements;</p> <p>After testing, the equipment showed no significant mechanical damage or deformation and functioned normally.</p>	accord with	qualified
7.	Alert function check	<p>The device will trigger an alert when any of the following conditions occur:</p> <p>No access permission signal was received, and the device detected personnel entering the passage.</p> <p>--Received access permission signal, the device detected unauthorized personnel entering the passage in reverse direction;</p> <p>The device failed the startup self-check.</p> <p>--The blocking mechanism is not functioning properly;</p> <p>The actual time personnel spend in the passage exceeds the preset allowable duration.</p> <p>When the device is in alert mode, you can configure it to reject access permission commands.</p> <p>The gate is equipped with standard fire alarm ports and remains open when receiving fire signals.</p>	accord with	qualified

Detection result				
NO.	Surveillance project	Test requirements document	Test Results-Description	Judge
8.	Check access control	<p>Display corresponding access permission or restriction signs based on the status.</p> <p>Upon receiving input signals for access permitting/prohibiting from manual operation or access control systems, the device enters the access permitting/prohibiting state.</p> <p>When the device is in a prohibited access state and receives a permission signal, it switches to the permitted access state and automatically reverts to the prohibited state under the following conditions:</p> <p>--When personnel are detected to have passed through the channel in the designated direction within the permitted passage time;</p> <p>--When the permitted passage time is exceeded and no personnel are detected in the channel.</p> <p>Supports setting entry and passage times; can be configured to remain in either an always-permitted or always-prohibited state.</p> <p>The device is equipped with traffic direction indication functionality, allowing simultaneous setting of one-way or two-way traffic flow. Upon gate opening, reverse traffic occurs; when the gate closes, the passage conveyor triggers an alarm.</p>	accord with	qualified
9.	Emergency release function inspection	<p>The device can remain in an unobstructed state after power failure or malfunction.</p>	accord with	qualified
10.	Anti-tailgating function check	<p>The device must have anti-tailgating functionality:</p> <p>The device features anti-tailgating detection with a minimum effective detection distance of no more than 100mm, and its sensitivity is adjustable.</p> <p>When the test sample only receives the pass-permit instruction and remains in the pass-permit state, two test personnel enter the channel in the same direction at a distance not exceeding 100 mm.</p> <p>Alternatively, when the permitted number of individuals under the passage instruction allows for front passage, non-permitted individuals following behind must maintain a distance of no more than 100 mm between them.</p> <p>Devices with anti-tailgating feature trigger alerts for tailgating incidents (enabling forced door closure in tailgating mode).</p>	accord with	qualified

Detection result				
NO.	Surveillance project	Test requirements document	Test Results-Description	Judge
11.	Automatic reset function check	The device is equipped with an automatic reset function (the system will automatically lock after the gate opens if no passage occurs within the specified time), and the passage duration is adjustable.	accord with	qualified
12.	Visual/Auditory Indication Function Test	The device provides visual/auditory indicators for its operational status, actions, and outcomes. The standby state is indicated by a blue light, while green light signifies permitted entry/exit. Red light denotes prohibited access or warning. Auditory indicators during warning modes must be distinctly differentiated from other signals. The voice volume is adjusted to maximum level, and the voice output function operates normally.	accord with	qualified
13.	Voice prompt/voice broadcast function check	The device features voice prompts or voice announcements and can play different voice types or custom voice content based on events. It supports over 45 selectable voice types.	accord with	qualified
14.	Check for overtake capture function	The device features a climbing and capturing function, enabling image capture of unauthorized individuals entering the premises.	accord with	qualified
15.	Check alarm function for crossing over	When the gate is closed, personnel attempting to cross through the passage will trigger an alarm in the passage machine.	accord with	qualified
16.	Timeout without passing alarm check	If the gate is not opened within the set time, the gate will be closed.	accord with	qualified
17.	Motor performance check up	The motor employs a brushless DC servo motor with self-diagnostic functionality upon power-on, featuring low failure rates, extended service life, and support for over 10 million consecutive normal cycles.	accord with	qualified
18.	Infrared pass logic check	There are multiple infrared transmission logic options available for selection, including five types: 3-pair, 4-pair, 6-pair, and 8-pair configurations, all of which are independent infrared logic systems.	accord with	qualified
19.	Abnormal infrared function alarm test	The channel gate alarm activates when infrared transmission/reception is misaligned or infrared functionality malfunctions.	accord with	qualified

**Detection result**

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20.	self checking function check up	The device features self-check functions for control, drive, blocking, and visual/auditory indicators, with corresponding actions or alerts. It can detect fault types such as infrared faults, limit faults, and motor faults.	accord with	qualified
21.	Restore factory settings feature check	The device has the function of restoring to factory settings.	accord with	qualified
22.	Switching time check	< 0.6s	0.6s	qualified
23.	Response time check	< 0.1s	0.09s	qualified
24.	Enable time check-in	The permitted access time for the device should be within the range of 1 second (inclusive) to 99 seconds (inclusive), and preferably adjustable.	accord with	qualified
25.	Allow time check	The device's allowable pass time should be adjustable within the range of 1 second (inclusive) to 99 seconds (inclusive).	accord with	qualified
26.	Travel speed	The passage speed ranges from 20 to 45 people per minute.	accord with	qualified
27.	speed test of door opening	The door flap opening/closing speed supports 99 adjustable settings.	99 adjustable channels	qualified
		The fastest opening speed is 0.42 seconds.	0.42s	qualified
28.	Noise inspection	The maximum noise level is 59.4 dB(A)	59.4dB (A)	qualified
29.	Auditory indication sound pressure testing	The auditory reference sound pressure should be within the range of 60 dB(A) to 90 dB(A) and preferably adjustable.	accord with	qualified

Detection result				
NO.	Surveillance project	Test requirements document	Test Results-Description	Judge
30.	Visual indication examination	The indicator light shall be clearly visible within a 22.5° viewing angle directly in front of the device at a distance of 3 m from the device; the displayed symbols or text shall be legible within a 22.5° viewing angle directly in front of the device at a distance of 0.8 m from the device.	accord with	qualified
31.	average number of trouble-free inspections	≥10 million times.	accord with	qualified
32.	Repetitive opening/closing count inspection	≥10 million times.	accord with	qualified
33.	Working voltage check	Rated operating voltage: 24VDC; Motor operating voltage: 24VDC.	accord with	qualified
34.	Single motor rated inspection	Single motor rated power: ≤100W, maximum overload power: 300W; Rated working current of single motor: ≤4A	accord with	qualified
35.	Power Supply Voltage Adaptability Range Test	AC: 110V~220V	accord with	qualified
36.	Interface Insertion and Removal Stress Testing	The interface must be reliable for insertion and removal, with no risk of breakage or structural deformation.	accord with	qualified
37.	Communication control interface inspection	The device is equipped with a switch signal input interface.	accord with	qualified
		The device supports one or multiple communication interfaces, including RS485/232/422 and Ethernet interfaces, enabling real-time transmission of gate machine operational status to third-party platforms.	accord with	qualified
38.	safety inspection	The outdoor equipment casing and shielding components shall be constructed using materials with poor thermal conductivity, or equipped with thermal insulation protective measures, or subjected to processing techniques that reduce surface thermal conductivity. During testing, destructive discharges, breakdowns, or flashover phenomena must not occur;	accord with	qualified

Detection result				
NO.	Surveillance project	Test requirements document	Test Results-Description	Judge
		and the leakage current shall not exceed 3.5 mA.		
		Protective measures should be implemented to prevent injuries from equipment components when opening the device's outer casing. For AC-powered products with metal casings, grounding measures must be taken for the metal enclosure.	accord with	qualified
		During the movement of the device's barrier section, if a person is present in the motion area of the channel barrier section, the barrier section stops moving or automatically transitions to a passable state.	accord with	qualified
		The product manual explicitly states that after the device is installed, the device management can mark the corresponding traffic safety signs, and it is advisable to remind the elderly and children to pass under supervision.	accord with	qualified
		In case of fire or other emergencies requiring emergency evacuation, the turnstile can be activated with a single button press using either the door opening button or power switch.	accord with	qualified
		If any power supply is interrupted or fails, all other turnstiles can continue to operate.	accord with	qualified
39.	Surge Impact Anti-interference Degree Test	AC power cable: line-to-line voltage $\pm 2\text{kV}$ ; Line-to-ground voltage: $\pm 4\text{ kV}$ ; Number of surges applied per polarity: 20 times; Other power/signal lines: Line-to-ground voltage: $\pm 4\text{kV}$ ; Number of surge applications per polarity: 5 times. During the trial period, the device did not exhibit any false actions or false alarms. After the test, the equipment can operate normally.	accord with	qualified
40.	Conduction immunity test	3V, Class B Baseline 10V, Grade B	accord with	qualified
41.	conduction transmission test	B level Enclosed indoor products are placed and operated under maximum emission conditions as per standard requirements, with tests conducted on external interference along power lines and communication lines.	accord with	qualified

Detection result				
NO.	Surveillance project	Test requirements document	Test Results-Description	Judge
42.	conduction transmission test	Level 3 Enclosed indoor products are placed and operated under maximum emission conditions as per standard requirements, with voltage method testing conducted to evaluate external interference along power lines.	accord with	qualified
43.	radiation emission test	Class A, test frequency: 30MHz to 1GHz, and 1GHz to 6GHz. Antenna height: 1m-4m.	accord with	qualified
44.	Electrical Fast Pulse Group Anti-jamming Test	Power supply: $\pm 2KV$ , Class B; Surveying $\pm 4KV$ , Class B; Test duration: 2 minutes; During the trial period, the device did not exhibit any false actions or false alarms. After the test, the equipment can operate normally.	accord with	qualified
45.	Test on Anti-jamming Capability for Voltage Sags and Short-term Interruptions	Anti-jamming test of voltage sag, short-time interruption and voltage variation a) Voltage interruption, interruption 0.5 cycle, 1 occurrence, Class A; b) Voltage sags to 0% of $U_t$ for 250 cycles, occurring once, classified as Class C. c) Voltage sags by 40% of $U_t$ for 5 cycles, occurring once, classified as Class A. d) Voltage sags to 70% of $U_t$ for 25 cycles, occurring once, classified as Class A; Requirement: During testing, the EUT may experience temporary loss or degradation of functionality/performance, but should recover automatically after the disturbance ceases without operator intervention.	accord with	qualified
46.	electrostatic discharge immunity test	Air discharge levels: 2KV, 4KV, and 8KV; Contact discharge rating: 6KV; Number of discharges per discharge level and polarity at each discharge site: 10 times During the trial period, the device did not exhibit any false actions or false alarms. After the test, the equipment can operate normally.	accord with	qualified
47.	Insulation resistance test	The insulation resistance between the power supply circuit and the device housing shall be $\geq 100 M\Omega$ .	101M $\Omega$	qualified

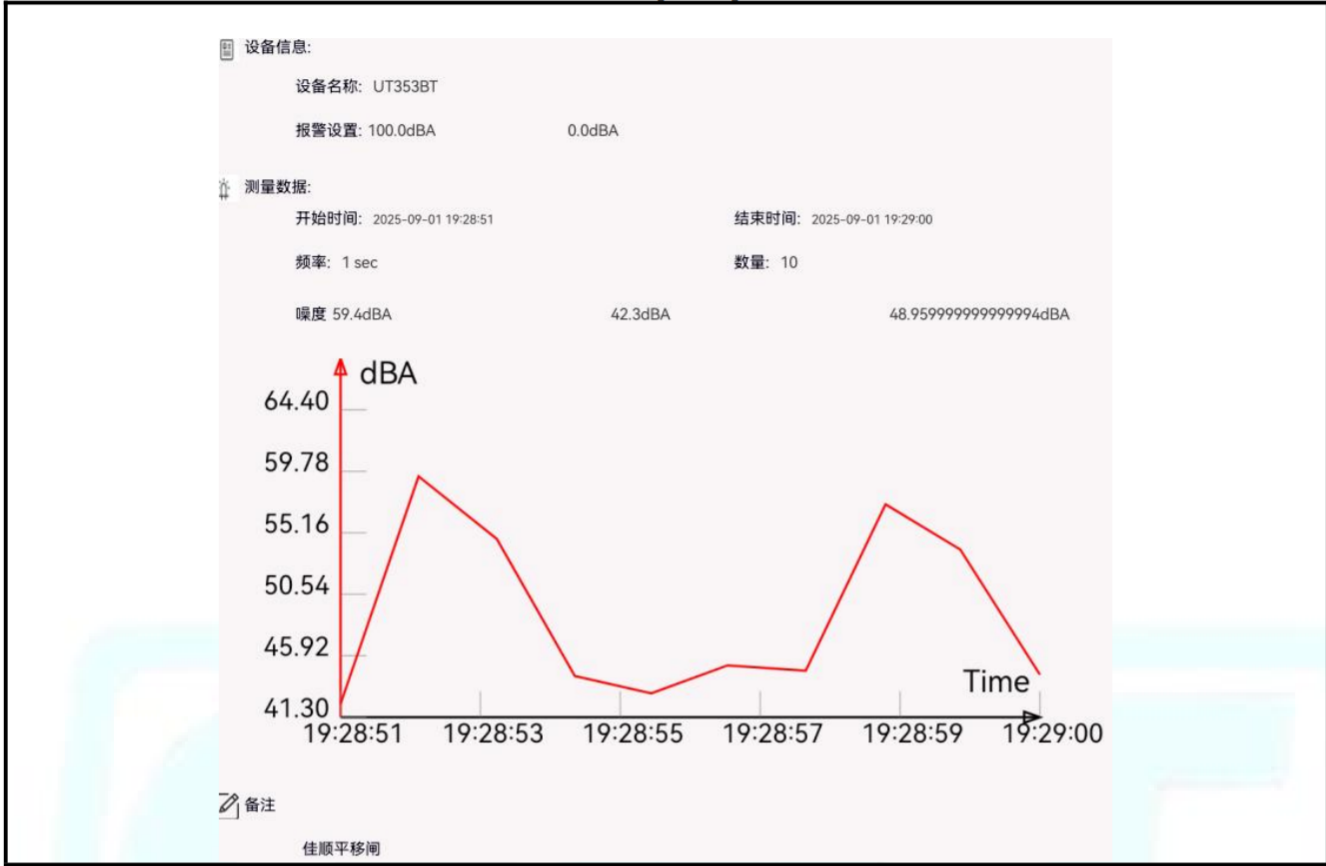
Detection result				
NO.	Surveillance project	Test requirements document	Test Results-Description	Judge
48.	leakage current test	≤5mA (AC, peak value)	4mA	qualified
49.	Grounding Terminal Test	<p>The connection between the equipment and the alternating current power supply strictly separates the working neutral line from the protective grounding line, adopting the S (TN-S) method.</p> <p>The equipment shall be equipped with protective grounding terminals, which shall have a direct conductive connection with accessible conductive components, with a contact resistance not exceeding 0.1Ω.</p> <p>External terminal anti-mistake testing: The connector cannot be inserted, indicating no electrical connection.</p>	0.08Ω	qualified
50.	heat rum test	Under normal operating conditions, the housing temperature of the sample shall not exceed 75°C.	75°C	qualified
51.	Dielectric strength test	No breakdown or arc discharge occurred at 1.5KV for 1 minute.	accord with	qualified
52.	Touchable Part Electric Shock Protection Test	The equipment is equipped with protective grounding terminals or connectors to reliably connect accessible conductive components to the grounding terminals or connectors of the output socket.	accord with	qualified
53.	Touchable portion anti-pinch test	<p>The device is equipped with 6 infrared detection channels, featuring infrared anti-pinch functionality, and supports no fewer than two selectable anti-pinch operation modes.</p> <p>After the gate opens, it will remain open until the vehicle passes through the anti-pinch infrared detection position within the preset travel time, at which point the gate will stop moving and an alarm will be triggered.</p>	accord with	qualified
54.	Motor stall test	When the gate is closed, applying external force prevents it from closing completely, which will not cause motor burnout over extended periods.	accord with	qualified
55.	Stalled Test-Interface Wiring Abnormality	When poor contact on the interface wiring causes motor stalling, the motherboard and components cannot be damaged.	accord with	qualified

Detection result				
NO.	Surveillance project	Test requirements document	Test Results-Description	Judge
56.	Enable self-check function	The device performs self-check after power-on, with audible and visual alerts triggered if the check fails.	accord with	qualified
57.	Access point configuration	Enable or disable access on both sides of the turnstile (entry and exit).	accord with	qualified
58.	Length when the entrance and exit are open	Set the duration for which the gate automatically closes after opening if no one is present.	accord with	qualified
59.	Entrance and exit memory function	Enable or disable the memory function for entry/exit passage control, typically used in card-swiping gate systems to record previous card-swiping patterns when an individual has not yet passed through. The "Prohibited" setting activates only after the first card-swiper passes, allowing subsequent swipes by others to be recognized. The "Allowable" setting permits consecutive passage for a specified number of individuals after initial authorization.	accord with	qualified
60.	Delayed closing duration	Used to set the time interval after which the gate closes automatically after normal passage.	accord with	qualified
61.	Turnstile operation mode settings	Set the gate opening method to infrared, card swipe, or face recognition.	accord with	qualified
62.	Reliability Testing of Turnstile Gates	The gate flap underwent 10 million door opening and closing tests.	accord with	qualified
63.	hot test	Indoor (+55±2)°C, 48h	—	qualified
		Indoor (+75±2)°C, 48h	accord with	qualified
64.	cold test	Indoor (-10±2)°C, 48h	—	qualified
		Indoor (-25±2)°C, 48h	accord with	qualified
65.	steady-state damp heat test	(90±3)%rh、 (+50±2) °C、 48h.	accord with	qualified

**Detection result**

NO.	Surveillance project	Test requirements document	Test Results-Description	Judge
66.	temperature cycling test	60°C (2 hours), -20°C (2 hours), 5°C/min, 30 cycles.	accord with	qualified
67.	salt spray test	5%、48h.	accord with	qualified
68.	Mean number of failures between failures	10 million cycles of opening and closing.	accord with	qualified
69.	Passage scenarios	Equipped with ≥6 infrared sensors, it can meet the recognition requirements for adults, children, and pets.	6 pairs	qualified
70.	Passenger speech set up	Set the audio to play when vehicles pass through from the left/right side.	accord with	qualified
71.	Travel speed	1. The gate remains open for ≥55 people per minute; 2. The gate remains in the closed state for ≥45 people per minute.	accord with	qualified
72.	gear	The gate machine core spindle is integrated molding.	accord with	qualified
73.	Passage width	The channel width can accommodate pedestrian traffic ranging from 550mm to 600mm.	accord with	qualified

### Sample pictures



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