



Tripod Turnstile

TS Series are high performance, multi-purpose turnstiles, perfectly compact and cost-effective pedestrian access control solutions, enabling controlled and secure access of people to areas defined by the operators.

For indoor and outdoor solutions (under shelter), for modular individual and multiple installations, the turnstiles are ideal passageways without the need for extra guide barriers.

The high throughput capacity of these turnstiles makes them suitable for management of heavy pedestrian traffic.

For emergency the TS series are equipped with electro-mechanical drop arm, opening an anti-panic passageway in a matter of seconds. Optionally, the turnstile's housing can be finished in steel 316, for outdoor solutions (without add-on protection). Our unique internal turnstile mechanisms offer superior durability at minimum energy consumption. In fact, our turnstiles are tested to well over two million operations -- equivalent to many years of continuous, real-world usage.

- ✓ Easy to install, simple to use
- ✓ Distinct zinc alloy decorative trims, with a brushed stainless steel surface
- ✓ Intuitive LED prompt for passenger direction
- ✓ Semi-automatic arms automatically drop when power off, manually rise up when power on
- ✓ Full alloy steel spindle patented with shape adaptation feature against strong impact to ensure normal functionality even with moderate deformation
- ✓ Unique anti-overheating mechanisms ensure smooth flow of high traffic
- ✓ Rotating tripod arms made of stainless steel tubes of 38mm diameter
- ✓ Anti-tailgate function
- ✓ The system supports people counting and can display the number by optional LED
- ✓ The system allows maximum crowd capacity control through software settings

Tripod Turnstile Models

We can offer you a wide variety of turnstiles for different applications that are easy to install, operate, maintain and can also be easily integrated with third party solutions.

These reliable and compact turnstiles are specially suitable for use where comfortable passage and high traffic rate are determining factors.

Model description:

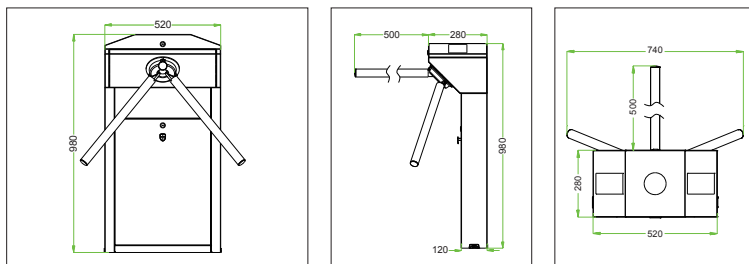
TS--00: Tripod turnstile only

TS--11: Tripod turnstile integrated with RFID reader and controller

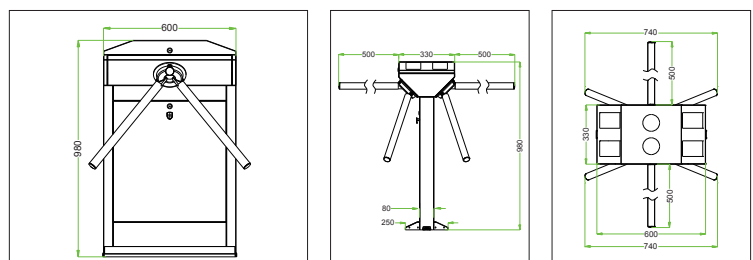
TS--22: Tripod turnstile integrated with both fingerprint and RFID reader and controller

TS--33: Tripod turnstile integrated with Multi-biometric terminals

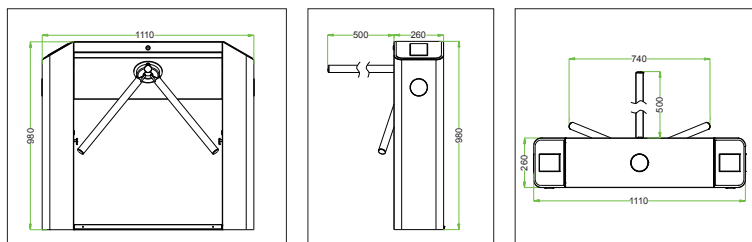
TS1000	TS1011	TS1022
Tripod Turnstile	RFID	FP+RFID



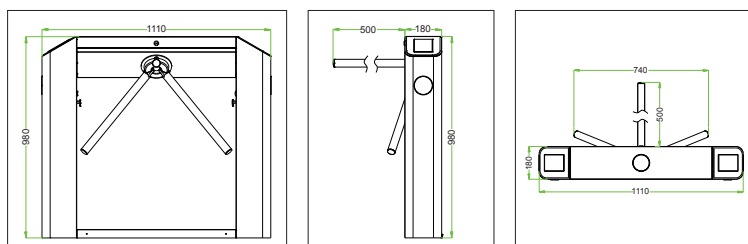
TS1200	TS1211	TS1222
Tripod Turnstile	RFID	FP+RFID



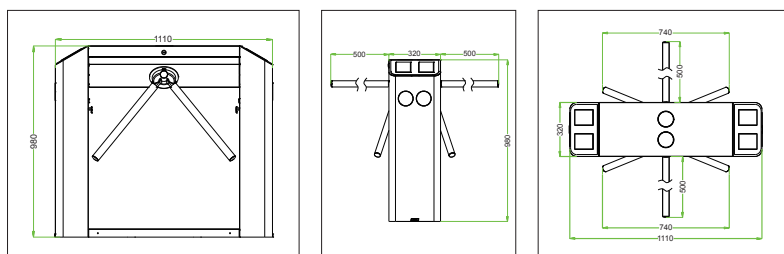
TS2000	TS2011	TS2022	TS2033
Tripod Turnstile	RFID	FP+RFID	FP+Face



TS2100	TS2111	TS2122	TS2133
Tripod Turnstile	RFID	FP+RFID	FP+Face


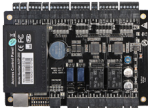








TS2200	TS2211	TS2222
Tripod Turnstile	RFID	FP+RFID



Hardware options

The series are available in three variants, with built-in inBIO controller offering fingerprint and RFID technology, integrated with C3 Controller only for RFID readers, or standard, ready for easy integration with third party electronics and other accessories for ticketing or paid access services.






Model	TS1011 TS2011 TS2111	TS1211 TS2211	TS1022 TS2022 TS2122	TS1222 TS2222
Access Controller	C3-100	C3-200	inBIO160	inBIO260
				
Card Capacity:	30,000	30,000	30,000	30,000
Fingerprint Capacity:	N/A	N/A	3,000 (optional 20,000)	3,000 (optional 20,000)
Event Capacity:	100,000	100,000	100,000	100,000
Communication:	TCP/IP, RS485	TCP/IP, RS485	TCP/IP, RS485	TCP/IP, RS485
Wiegand Input:	2ea	4ea	2ea	4ea
Aux.output:	1ea	2ea	1ea	2ea
Aux.input:	none	2ea	1ea	2ea
Aux:	N/A	N/A	RS485 for Fingerprint Reader	RS485 for Fingerprint Reader
External reader	KR101	KR101	FR1200	FR1200
				
Proximity module	EM (MF optional)	EM (MF optional)	EM (MF optional)	EM (MF optional)
Read range	KR101E Up to 10 CM / KR101M Up to 5 CM	KR101E Up to 10 CM / KR101M Up to 5 CM	FR1200 Up to 10 CM / FR1200M Up to 5 CM	FR1200 Up to 10 CM / FR1200M Up to 5 CM
Output Card format	26bit (E) 34bit (M)	26bit (E) 34bit (M)	26bit (FR1200) 34bit (FR1200M)	26bit (FR1200) 34bit (FR1200M)
Communication	Wiegand	Wiegand	RS485	RS485
IP grade	IP65	IP65	IP65	IP65
Sensor	N/A	N/A	ZK Optical sensor	ZK Optical sensor
Algorithm	N/A	N/A	ZK Finger 10.0	ZK Finger 10.0

Operating modes

Operating modes are set with the remote control panel or by command from access control system

- ✓ Single passage in one direction
- ✓ Free passage in one direction
- ✓ Single passage in each direction
- ✓ Free passage in both directions
- ✓ Always locked (closed for entry and exit)
- ✓ Lock-chamber access mode for additional video or biometric identification when increased access control is required (for full height rotors only)

Specifications

Model	TS1011	TS1211	TS2011	TS2111	TS2211
Picture					
Power Supply	AC110 ~ 220V, ±10%, 50HZ				
Operating temperature	-28°C ~ 60°C				
Rated Power	60W	120W	60W	60W	120W
Relative Humidity	5% ~ 80%				
Pass Speed (by card)	48 people/minute				
Noise	32 dB				
Mean Time Between Failures	2 million times				
Working Environment	Indoor/Outdoor*				
Material	SUS304 (SUS316 optional)				
IP grade	IP54				
Input control	Digital input				
Dimension (L*W*H)	520x280x980	600x330x990	1120x280x980	1120x186x980	1150x320x990
Tripod Arm Length (mm)	500				
Max. Bearing (Arms)	80 kg				

* Shelter protection required

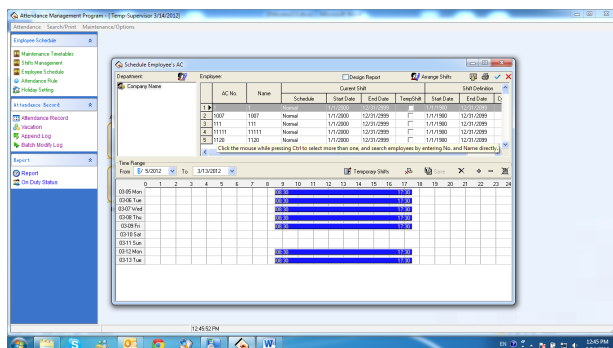
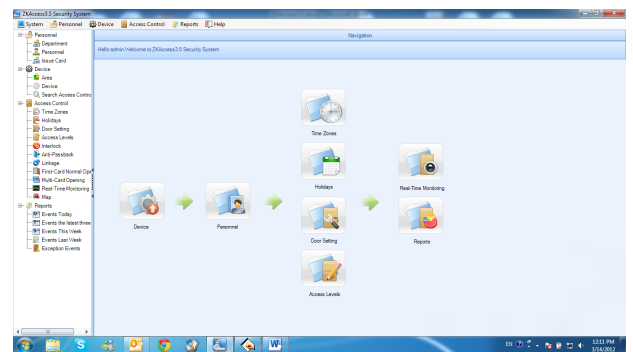
Software Management

ZKA_{ccess}

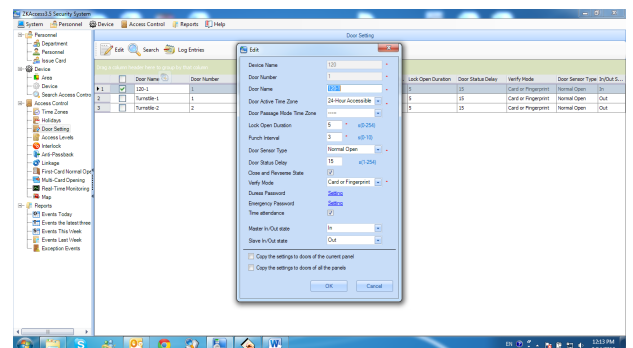
Access Control Software ZKAccess3.5

Our ZKAccess 3.5 is an Access Control software application – the brain of our turnstiles – offers complete flexibility in programming to achieve any access control performance your solution may require.

The ZKAccess system goes a step beyond conventional access control systems, by combining unique RFID and biometric identification. With its intuitive easy-to-use GUI and wizard type settings, ZKAccess provides comprehensive access control security for small-to-medium sized businesses and enterprise-level systems.



ZKAccess includes a time and attendance feature to allow administrator to define timetables, shifts, schedules, and holiday settings. It provides compact and easy-to-use report and In/Out board features.



The system controls up to 400 doors and allows integration with various database systems, event monitoring, interlock, linkage, passage mode, first-card opening, multi-card opening, visual map, T&A management and reporting features.

Third Party software integration

ZKTeco can provide a free SDK with open libraries to be used with third party access control systems. In this way, the needs for software developers to merge different Access Control solutions in one complete and integrated solution are solved.

Features and Applications



Truly Internal Biometric Identification:

InBIO matches fingerprints on the panels. The FR Series readers transmit fingerprint templates to inBIO via RS485 for fast and accurate matching with templates stored in the database. Wiegand inputs are also provided for traditional RFID readers.



Access Control and More:

Along with relay contacts for controlling turnstiles, easily programmable auxiliary relays can be used for additional control and interface to lights, alarms, intrusion detection panels, or even extra locking devices or gate controllers.



Communication:

The turnstiles can be easily installed on your network and support both TCP/IP and RS-485 communication. Auto-discovery tool allows setting and modification of network parameters directly and easily.



Options:

Five different kind of turnstiles can suit various project needs and reduce the cost of required floorspace. 1-way and 2-way models can be mixed and matched in optimized system architecture.



Capacity:

The system supports up to 3000 fingerprint templates, 30,000 badge users and stores up to 100,000 events and transactions. Data is preserved if there is power outage. Controller can continue operating if network connection is interrupted.



Built-in Advanced

Access Control Functions:

Anti-passback, First-Card opening, Multi-Card opening, Duress Password Entry, and Auxiliary input/output linkages are built into controller firmware.



Lowest Total Cost:

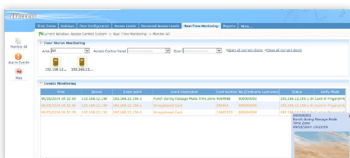
The embedded controller firmware can be upgraded in the field. New controller features can be loaded to extend and expand your investment value without any complex third party tools.



For Software Developers:

Free SDK is available for integrators and OEMs (optional Push SDK for Real-Time environments) to integrate the turnstile with their or existing security or personnel management applications. Upon request, ZK can customize firmware to meet any customer requirements.

Applications



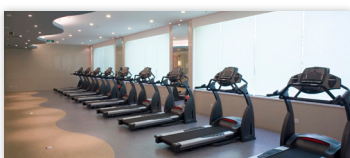
Building Entrance



Time & Attendance



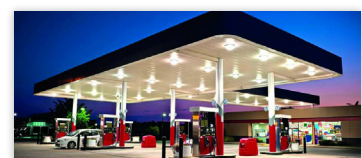
Visitor Management



Sports and leisure facilities



Arena Entrance Events



Petrol Stations Restrooms



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