ALVARADO
dormakaba Group

ARGUS V60

COMPACT SWINGING BARRIER OPTICAL TURNSTILE

With a cabinet depth of only 9.5" (240mm), new sensor technology, and a custom algorithm (patent pending), the Argus V60 offers powerful tailgating detection paired with the industry's smallest footprint. This combination makes the Argus V60 perfectly suited for high-traffic areas where floor space is limited.

COMMON APPLICATIONS

- Employee Entrances
- Elevator Lobbies
- Visitor Check-In Areas
- Public-to-Secure Transition Areas
- Department Entrances

TYPICAL INSTALLATION SITES

- Government Facilities
- Corporate Lobbies
- Healthcare Facilities
- Data Centers
- Student Housing
- Recreation Centers / Health Clubs

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FUNCTION

The Argus V60 provides bi-directional access control and multiple operational and passage modes tailored for modern high-traffic entry points. While sharing core controlled-passage functionality with the standard Argus optical turnstiles, the Argus V60 distinguishes itself through an extremely compact footprint and advanced, patent-pending sensor algorithm that enables powerful tailgating detection even in space-constrained installations. With a cabinet depth of only 9.5" (240 mm), the Argus V60 offers one of the smallest secure entry solutions in the industry without compromising performance or safety.

In controlled passage mode, motorized swinging barriers remain locked to deter unauthorized entry until a valid credential is presented. Upon receipt of an authorized signal from the facility access control system, the barriers open smoothly away from the user. Integrated optical sensors—optimized for the V60's compact form factor—detect the presence and direction of users and, in conjunction with the access control system, identify unauthorized tailgating attempts. When an illegal passage is detected, the system triggers an audible alarm and activates red visual indicators. The V60's enhanced sensor suite and smart algorithm substantially improve separation detection, even in tight spacing, providing reliable security where traditional systems may struggle.

The optical sensors also prioritize user safety by preventing the barriers from closing on individuals. If an obstruction is encountered during barrier movement, the system's sensor network detects the condition and precisely modulates the drive motors to minimize impact. Throughput performance remains high, with support for rapid sequential entry, stacking valid scans so users can pass through at walking pace without delay—though actual throughput will depend on the connected access control system and reader performance.

Alvarado dormakaba Group™ also offers GateKeeper, an optional turnstile management application for monitoring, controlling, and scheduling turnstile operations. Available as either a web-based application or a dedicated hard-wired kiosk for high-security environments, GateKeeper allows attendants to view alarms, authorize single-pass entries, adjust operating modes in real time, and automate operational changes such as shift schedules, break periods, and weekends. The application also maintains a comprehensive log of access events, alarms, and operator actions. Additional information is available in the Available Related Applications section of this document or by contacting Alvarado Technical Support.

MATERIALS

PROFILE AND INLAY

The profile and inlay elements in the hand rails and in the front of the side panels are made of aluminum.

DRIVE UNIT

The low energy drive units are made of aluminum.

SCAN PLATE

The scan plates is made of tempered glass.

MOVING BARRIER PANELS

The two moving barrier panels are made of 3/8" (10mm) tempered laminated glass. Clear Polycarbonate moving barriers are available.

AVAILABLE STANDARD FINISHES

The following are standard finish options for the Argus V60.

True White

Deep Black

Organic Sands

Corporate Satin

Digital Silver

Vector Edge

AVAILABLE CONFIGURATIONS

ARGUS V60/ ARGUS V60-E

The Argus V60 consists of a pair of end cabinets with moving barriers that create a single 25-9/16" (650 mm) wide passageway. The Argus-E is an extension center cabinet, with the same dimensions as an end cabinet, used to create additional turnstile passage lanes with the addition of a single cabinet. For example, one Argus V60 and one Argus V60-E would be used to create two lanes. Additional extension center cabinets are used to create additional lanes; e.g., one Argus V60 and two Argus V60-Es create three lanes. An unlimited number of center cabinets can be added.

25-9/16" passage width - low-height moving barriers

ARGUS V60-A / ARGUS V60-E-A

The Argus V60-A consists of a pair of end cabinets with moving barriers that create a single 36" (915 mm) wide passageway. The Argus V60-E-A is an extension center cabinet with wider moving barriers to allow an additional 36" passage lane to be created with the addition of a single cabinet as described in the section above. An unlimited number of center cabinets can be added.

Multi-lane configuration with 36" passage width on left; 25-9/16" passage width on right - low-height moving barriers

USING TURNSTILE LANES WITH DIFFERENT SIZED MOVING BARRIERS

Center cabinets that have a 25-9/16" (650 mm)" passage barrier on one side and 36" (915 mm) wide barrier, or different height barrier, on the other side are available.

CONTROLS, OPERATIONAL MODES AND FUNCTIONALITY

CONTROL MECHANISMS

The precise movement of the Argus's motorized moving barriers is accomplished through a low energy 24V brush less motor. A main turnstile control board runs the operational application and interfaces to the motor control board and LED board over an internal, high-speed serial bus. The main turnstile control board also interfaces to the configuration and administrative applications, Pavis 3 and/or GateKeeper – see Available Related Applications.

OPERATING MODES

The Argus offers the following user-configurable operator modes:

 Block	Passage blocked. The moving barriers block immediately or when they are in home position (depending on the parameter setting).
 General Release	Authorization signal is not required for a user to pass through the turnstile. Moving barriers can be moved by hand and they remain open.
 Continuous Release Entry	Moving barriers are closed, securing the turnstile. Upon receipt of an authorization signal from an access control system, the moving barriers move away from the user to the open position in the entry direction and the moving barriers close after each passage. This operating mode can be set to permanently open in the entry direction.
 Continuous Release Exit	Moving barriers are closed, securing the turnstile. Upon receipt of an authorization signal from an access control system, the moving barriers move away from the user to the open position in the exit direction and the moving barriers close after each passage. This operating mode can be set to permanently open in the exit direction.
 Single Release Entry	Moving barriers are closed, securing the turnstile. Upon receipt of an authorization signal from an access control system, the moving barriers move away from the user to the open position in the entry direction, allowing a single passage. The moving barriers return to the closed position after the user has passed through the turnstile or the time frame allowed for an entry to occur has expired.
 Single Release Exit	Moving barriers are closed, securing the turnstile. Upon receipt of an authorization signal from an access control system, the moving barriers move away from the user to the open position in the exit direction, allowing a single passage. The moving barriers return to the closed position after the user has passed through the turnstile or the time frame allowed for an entry to occur has expired.
 Permanently Open Entry	The moving barriers are permanently open in the entry direction.
 Permanently Open Exit	The moving barriers are permanently open in the exit direction.

FUNCTIONALITY - USER CUSTOMIZABLE FEATURES AND AVAILABLE TOOLS

Operational Adjustments	Description
Barrier Impact	Controls moving barrier operation if barriers encounter an object during operational cycle
Access Timeout	When a valid credential presented but a user does not pass through turnstile; controls time before moving barriers close and turnstile resets
Object	Controls object detection size
Tailgating	Controls tailgating sensitivity
Unauthorized Entry	Controls number of entry sensors a user can block before triggering an alarm
Blocked Sensor	Controls time before alarm is generated if sensors are blocked

Operational Sounds / Alarms	Description	Configurable Sounds
Access Granted*	Good credential	√
Access Denied*	Bad credential	√
Unauthorized Presence*	User enters turnstile without presenting a credential	√
Tailgating/Unauthorized Passage*	Tailgating/unauthorized passage detected	√
Blocked Sensor	Sensors are not cleared	√
Unsafe to Open/Close*	Moving barriers are not opening/closing due to an unsafe condition	√
Moving barrier Impact	Moving barriers have encountered an object while moving	√

*Configurable for both entry and exit direction

Setup / Diagnostic Tools	Description	Configurable Sounds
Moving barrier Position (Home)	Moving barriers home position setting	N/A
Moving barrier Position (Open)	Moving barriers opening position setting	N/A
Startup	Appropriate startup is engaged	√
Moving barrier Lingers	Moving barriers have stayed open past the allotted time to close	√
Emergency Override Direction	Allows the installer to set the emergency override direction	N/A

In addition to the available operating modes, the Argus has a number of additional user-customizable features. These features allow turnstiles to be "tuned" to the operational requirements of an application (Pavis 3) and allow users to associate individual audio sounds with operational states and alarm conditions. Argus turnstiles also come with tools to assist service personnel with setup, diagnostics and troubleshooting.

Customizable features and custom sounds are downloaded to turnstiles via a USB C connection using the Pavis 3 application. Users may create and install their own audio sounds in the form of .wav files.

Prior to shipping, turnstiles are configured with settings and default sounds that are appropriate for most facilities. A summary of configurable features and setup/diagnostic tools is listed below.

ALARM CONDITIONS

In the event of an alarm condition, the designated alarm sound is played (see chart on previous page) and both the card cue display lights and lane status lights will illuminate red. An I/O output is also provided for most alarm conditions - see Turnstile Interface to Access Control System section.

BARRIER CYCLE TIME

This is an adjustable feature. Recommended opening speeds are 1.0 seconds for low- and mid-moving barriers and 1.5 seconds for high-moving barriers.

EMERGENCY OVERRIDE / FIRE ALARM

Activation to open the moving barriers in conjunction with a fire alarm or other life safety system is achieved by supplying a sustained dry contact to the Argus. During emergencies the Argus' moving barriers will open in the exit direction and remain open. Status lights and alarm notifications will turn off.

MOVING BARRIER IMPACT

In the event that the moving barriers encounter resistance while opening or closing, the moving barriers will stop moving, an alarm will sound, and the card cue display lights and lane status lights will illuminate red to indicate an alarm condition. The moving barriers will automatically reset once the obstruction is cleared. The barrier impact setting is adjustable.

POWER FAILURE

In the event of a loss of power to the unit, the moving barriers of the Argus can be freely moved in either direction. When pushed or pulled to the open position the moving barriers will remain open.

CARD READERS

SPACE FOR INTERNAL INSTALLATION OF CARD READERS

Proximity readers can be mounted on either side of the turnstile underneath the cabinet lid. The internal space available is 5.9"D x 3.5"W x 1.2"H (150 mm x 90 mm x 30 mm). Larger readers are typically mounted on an Adjustable Reader Mounting Attachment (see Options). Alvarado can also provide other custom mounting options.

TURNSTILE INTERFACE TO ACCESS CONTROL SYSTEM

Dry Contact

Single passage activation, and other functionality, is achieved by supplying an isolated, voltage-free, momentary dry contact at the appropriate location on the I/O control board. Various outputs are also available to provide information on turnstile operational status and activity. A description of available input and output signals is provided below.

Input Signal	Entry / Exit
Direction Closed	√
Good Credential (Activation)	√
Bad Credential	√
Passage – Free Pass Mode	√
Single Entry Override	√
Emergency Override / Fire Alarm	√

Output Signal	Entry / Exit
Authorized Passage	√
Unauthorized Passage	√
Unauthorized Presence	√
Sensor Blocked	√
Lingering Barrier	√

AVAILABLE RELATED APPLICATIONS

There are two additional applications that are available with the Argus v60.

PAVIS 3

Pavis 3 is a licensed application for integrators and service technicians.

The application allows configurable features of the Argus V60, provides firmware updates, changes settings, also helps to commission the unit. It is an excellent tool for service technicians to troubleshoot and maintain the product.

GATEKEEPER

GateKeeper is an optional turnstile management application that allows all Alvarado optical turnstiles installed at a site to be monitored and controlled from any PC with access to the software's web interface, which is hosted on the facility's local server. GateKeeper enables control of virtually all day-to-day operating functions, including designating a turnstile as entry or exit, opening or closing a turnstile, and providing single-passage overrides for visitors or personnel who have forgotten their access credentials. The application also includes a variety of advanced management features, including an emergency "open all turnstiles" capability that supplements the emergency override and fire alarm functions described elsewhere in this document.

For facilities with heightened security requirements, GateKeeper is also available in a dedicated kiosk configuration. This option allows turnstiles to be controlled through a hard-wired interface, eliminating the need for browser-based connectivity and reducing network exposure while maintaining the same operational control capabilities.

GateKeeper utilizes tiered user permissions with three security levels—User, Supervisor, and Administrator. Higher permission levels provide access to additional features, settings, and administrative controls.

The application's intuitive interface provides operators with real-time status information for all installed turnstiles. When alarm conditions occur, GateKeeper generates both visual and audible notifications to quickly alert personnel. All operator actions, such as passage overrides, as well as turnstile alarms and events, are automatically logged. These logs can be viewed, printed, or saved for record-keeping, auditing, and diagnostic purposes.

GateKeeper also includes a built-in Event Scheduler feature. This powerful tool allows routine operational changes to be scheduled and implemented automatically, eliminating the need for guards or attendants to manually adjust settings throughout the day. Event Scheduler enables users to create and save operating templates that can be executed automatically at user-defined times. Examples include changing turnstile operating modes (entry, exit, bi-directional control, or free passage) at specific times of day, activating or disabling moving barriers, or configuring only selected lanes to operate during weekends and holidays. This flexibility helps facilities optimize turnstile usage, potentially reduce the number of lanes required, and seamlessly align turnstile operation with site-specific security and operational requirements.

A single GateKeeper license allows users to monitor and control all turnstiles installed at a single licensed site.

OPTIONS

ALTERNATE POWER SUPPLY

A 220-240 VAC, 50 Hz power supply and EU wiring scheme.

ADJUSTABLE CARD READER MOUNTING ATTACHMENT

A custom made adjustable arm for an external card reader attachment.

AMBIENT BARRIER PANEL LIGHTING (STATIC)

The door wing lighting is created by an LED strip that is attached to the door wing

BARCODE IMAGER FOR VISITOR IDENTIFICATION

A 1D/2D barcode imager can be installed on either or both sides of the turnstile. The imager is installed within the front of the inlay below the standard card reader.

This option is generally used to scan visitor identification credentials. If barcodes are the primary identification credential used at the installation, discuss other barcode reader options with Alvarado.

BARRIER HEIGHTS

Moving barriers are available in 39" (991 mm), 47.25" (1200 mm), 55" (1400 mm), 63" (1600 mm), and 71" (1800 mm) heights.

BARRIER ETCHING

Customer's choice of logo/artwork may be etched on the moving barriers. Contact Alvarado for space and material limitations. This option is only available on polycarbonate moving barriers

BARRIER WIDTHS

Moving barrier widths may be customized to meet unique installation requirements.

CARD READER DISPLAY LIGHTS

An illuminated user status display is incorporated into the scan plate cue display of the Argus. The lights notify users of the status of a scan attempt. The card cue display lights are configured in the following manner:

White Reader Light	An illuminated white light means the turnstile lane is ready for card presentation.	
Green Reader Light	An illuminated green light indicates passage is allowed and/or a valid credential has been presented.	
Red Reader Light	An illuminated red light indicates passage is prohibited in the turnstile lane and the lane remains locked.	

CHASING LIGHTS

A light strip is visible on the front of the inlay above the card cue display light to inform the user of the lane's current status. This light can appear as a chasing light that moves in the direction of passage, a pulsing light that fades in and out, a flashing light or a static light. The lane status lights are configured in the following manner:

White Static Light	A static white light indicates the turnstile lane is ready for operation.
Green Chasing Light	A chasing green light indicates the lane has received an authorized credential and the moving barriers are moving to the open position.
Green Pulsing Light	A pulsing green light indicates the lane is set for continuous release or set as permanently open.
Red Static Light	A static red light indicates the lane is permanently closed or temporally closed while it performs functions for a user in the opposite passage direction.
Red Flashing Light	A flashing red light indicates the lane is blocked or has entered into an alarm condition.

CUSTOM FINISH OPTIONS

Custom powder coating is available on the profile, drive unit, and/or inlay to any provided RAL color. Please contact Alvarado for more information.

DRIVE UNIT HEIGHTS

Drive units heights can be ordered to match the upper edge of the barrier panels. Available in 39" (991 mm), 47.25" (1200 mm), 55" (1400 mm), 63" (1600 mm), and 71" (1800 mm) heights

EMERGENCY RELEASE BUTTON

The moving barrier panels are released via an emergency button installed on the front inlay of the turnstile's secured side. Once pressed the barrier panels are moved in the escape direction within 500 ms after triggering. The locking and the motor are then disconnected allowing the barrier panels to swing freely.

FLOOR SAVER PLATFORM

A platform for either single turnstile or multi-turnstile configurations is available. The passageway area of the platform is powder coated with a highly-textured black coating. The platform includes enclosed cable runs and eliminates the need for trenching or stubbing up conduit from floor.

LANE STATUS LIGHTS

A slim vertical LED light strip is integrated into the front inlay below the card reader to clearly indicate lane status. Green signifies the lane is open and ready for use, while red indicates the lane is closed.

LONGER INTERCONNECT BETWEEN CABINET CABLES

Longer interconnect cables are available to accommodate installations where standard conduit runs are not available.

CONDUIT REQUIREMENTS

PRIMARY POWER CONDUIT

The maximum diameter for primary power conduit is 1.77″ (45 mm). The product standard is 110-120 VAC (use of 220-240 VAC is an option).

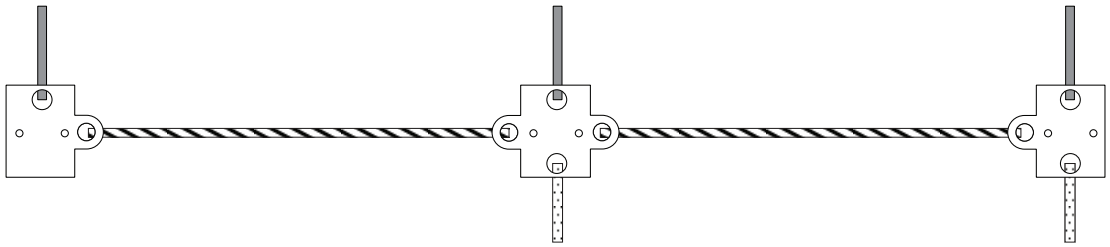
LOW-VOLTAGE AND COMMUNICATION CONDUIT

The maximum diameter for low voltage and communication conduit is 1.77″ (45 mm). 8′ (244 cm) interconnect cables are included. 20′ (610 cm) and 40′ (1220 cm) interconnect cables are available options.

ACCESS CONTROL SYSTEM AND READER CONDUIT

The maximum diameter for the access control system conduit is 1.77″ (45 mm). Alvarado does not provide cables for access control systems.

CONDUIT DIAGRAM



Primary Power
1-3/4″ MAX

Crossover Cable
1-3/4″ MAX

Access Control
1-3/4″ MAX

SHIPPING AND SITE PREPARATION

SHIPPING

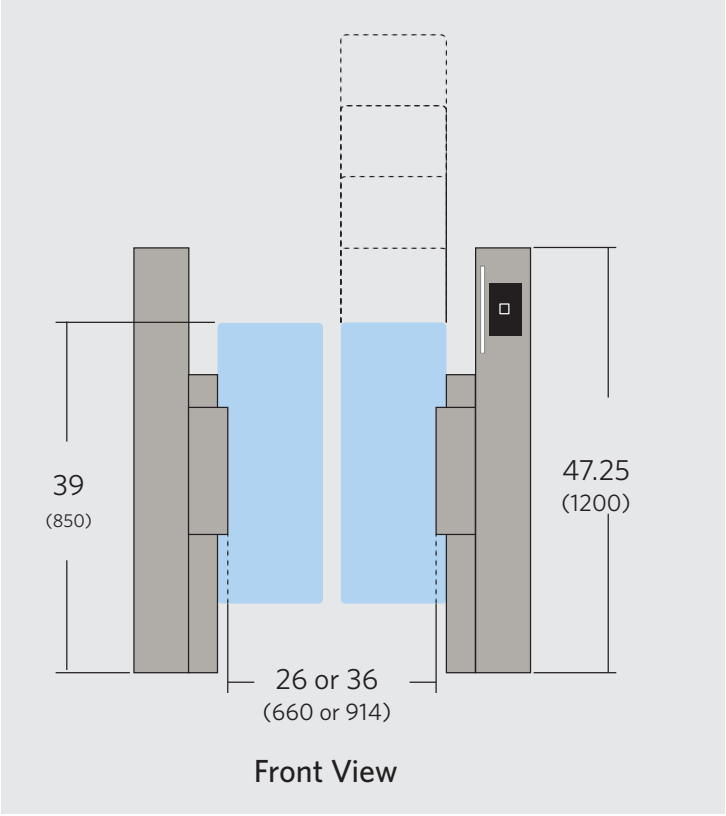
Turnstiles shipped assembled for easy installation. Each cabinet includes mounting hardware and floor templates (anchors, bolts, washers, etc.) to mount the unit to a standard, level concrete floor. Moving barriers are shipped unattached

SITE PREPARATION

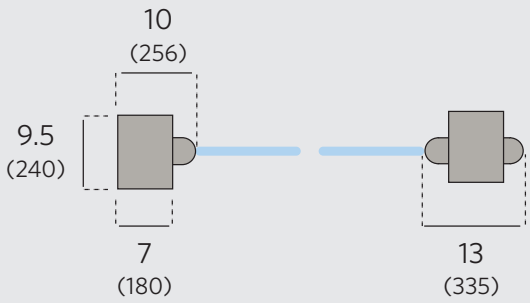
Turnstiles must be installed on a firm foundation in a manner that allows the required power and access control cabling to be pulled into the turnstile cabinet. The slab platform should be a minimum of 4" (102 mm) deep, level concrete. Installation should be performed by a skilled installer following Alvarado's instructions. Detailed drawings and installation manuals are available online. Installation template (aluminum) ships with the unit.

TECHNICAL DIMENSIONS

Dimensions are shown in inches (mm). All measurements are approximate.



Front View



Top View

Approximate Throughput Rates	
Card Reader Type*	Users per minute
Proximity	30

*Access control system response is assumed to be instantaneous

Electrical	Description
UL Rated Power Supply	AC 100-240 V / 50-60 Hz
Power Consumption	Peak: 75W / Operating: 50W / Idle: 25W
Operational Voltage	Primary power is 24VDC
Fuse Protection	A 3.5 amp fuse (slo-blo) is installed in each main cabinet.
Surge Protection	Alvarado suggests use of surge protection equipment in connection with the installation to protect electronics
Weights and Environmental	Product weight includes a standard width lane (two cabinets). Shipping weight include product with crate(s)
Product Weight (per per cabinet)	88 lbs.
Shipping Weight (per cabinet)	100 lbs.
Operating Temperature	50° to 90° F
Storage Temperature	32° to 104° F
Relative Humidity	15-85% (non-condensing)

WARRANTY

For a period of 24 months from the date of purchase, Alvarado dormakaba Group™ will replace or repair, at Alvarado's option, any products or parts which are defective in materials or workmanship, provided recommended installation and maintenance procedures are followed. This warranty is void if damage is due to improper installation, maintenance or use. This warranty is limited to parts only, and does not cover labor or shipping charges incurred in connection with the removal or replacement of warranted products or parts.

This warranty is expressly made in lieu of any and all other warranties, expressed or implied, including, but not limited to implied warranties of merchantability and fitness for a particular purpose. Alvarado shall not be liable for any loss or damage, directly or indirectly, arising from the use of purchased products. In no event shall Alvarado be liable to buyer for consequential damages, special damages, incidental damages, loss of use, business interruption, loss of profits, or damages of any kind arising out of the use or inability to use a purchased product. In no event shall Alvarado be liable for damages which exceed the purchase price of a covered product.