

The Bike Guardian

The unmanned 24/7 secure bike parking solution.

PORTAL DIMENSIONS

Overall External Width:	1389 mm
Overall External Depth:	2565 mm
Entrance Width:	1100 mm
Internal Height:	2135 mm
External Height:	2465 mm

PORTAL WEIGHT GUIDELINE

Typical weight guideline: 1150 kg

POWER SUPPLY

Input:	110/230VAC (EMI Filter included)
Output:	24 Vdc, 5 A/hour
Average Power consumption: (per hour of continuous operation)	35 watt
Max Power Rating:	150 watt
Emergency Battery Back-up:	6-8 hours

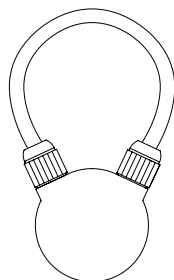


MOTORS

Reversible motors with permanent magnet, working power of 24 Vdc, provided with an encoder for the continuous control of the door position. Doors are provided with electronic control of motor torque for door safety stop in presence of an obstacle.

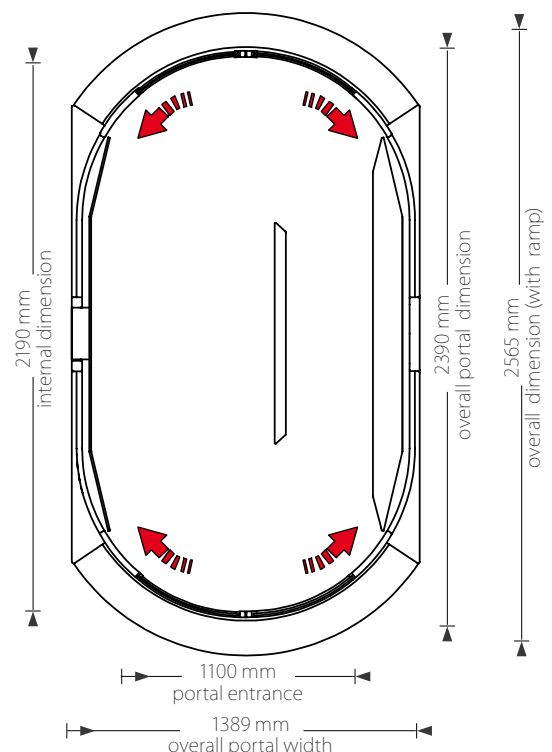
TAG DIMENSIONS

Width:	46 mm
Diameter:	38 mm
Height (excluding the cable):	2135 mm
Depth:	21 mm



TAG WEIGHT GUIDELINE

Typical weight guideline: 26g



Types of available glasses



Vandalism resistance glass.
Certification: P2A EN 356.



Vandalism resistance glass.
Certification: P4A EN 356.

THE BIKE GUARDIAN FEATURES

VERSIONS

- S version: welded portal structure with 70mm floor base (recessed or surface mounted installation).
- R version: rail floor guide 12 mm base. (surface mounted installation only).
- K version: cabin delivered to be assembled at the installation.
- ✕ Portal Certified Class 3 EN 1627-30:2000.
- ✕ Portal Certified Class 4 EN 1627-30:2000.

DIRECTION

- Entrance Direction: Straight
- ✕ Entrance Direction: 90 degrees Left
- ✕ Entrance Direction: 90 degrees Right.
- ✕ Entrance Direction: 45 degrees

OUTER FINISHING

- Outer Finishing: RAL colours (sliding door frames RAL 9005 - Black).
- Polished Steel
- Brushed Steel
- Aluminium

DETECTION DEVICES

- Infrared Presence Sensor.
- ✕ Contact mat for presence person
- ✕ APD - Anti Piggybacking Device
- ✕ 2 zone contact mat
- Reed Door Position Tamper Sensor: EN 61000-6-3:2007+A1:2011, EN 50130-4:2011, EN50131-2-6:2008
- ✕ Metal Detector

STRUCTURE

- Certificated metal Top Canopy in accordance with FB2/NS EN 1522
- Certificated metal portal structure in accordance with FB4/NS EN 1522.
- Anti-slip floor mat EN13893
Fire reaction in accordance with Bfls1 EN13501-1
- ✕ Extra glazing on the flat sliding door pocket structure
- Floor Pan (for S version only)

EXTENSIONS

- ✕ 2030 mm Internal Portal Height.
- 2135mm Internal Portal Height.
- ✕ 2300 mm Internal Portal Height.
- ✕ Portal length extension

SAFETY

- Infrared Safety Sensor.
- Fire Alarm Signal opens secure and/or non secure side.
- Rescue Push Button to open the portal door which last closed and safely exit the portal.
- ✕ Curved sliding Doors: Fail Safe

CONTROLLERS

- LED traffic light at secure and at non secure side
- Standard Intercom (PPT - PushPerTalk) [from control panel to non secure side traffic light]
- Multi-function Control Panel for remote control of the Portal with 15 m cable
- Service Mode Key switch: Local ON / OFF key switch selector and cleaning mode function.
- Additional Multi-function Control Panel for remote control of the Portal.
- Web lan control
- Emergency Door Control Panel (for emergency swing door management)

ELECTRONICS

- Alluser Interlocking Door System Control Motherboard with APS (Alluser Portal Software).
- Nominal 24 VDC 5A power supply, with battery backup charger; Input 110-230VAC (EMI Filter included)
- Emergency battery backup; 6-8 hrs, in std configuration.
- Internal 24V DC LED Light. (warm white 3.000 K; life expectancy 50.000 h)
- Nominal power consumption 85 W.

DOORS

- Bi-Parting (2 doors opening each side)
- ✕ Sliding Doors Center frame overlapping edge (to be used in case of BR glass).
- ✕ Both doors slide to open on the same side.
- Curved sliding Doors: Fail Secure

UNLOCKING DEVICES

- Secure side mechanical emergency unlocking device. (Non secure side: cost option)
- ✕ 90 degrees emergency lever
- extra emergency lever
- ✕ Manual Panic break out opening. In emergency, automatic flat sliding doors can be opened by

TOP & NIGHT

- Locked Top cover.
- Night Lock
- Fiberglass Rain Cap top cover
- First & Last Transit with 7 Mechanical Keys
- First-last transit, with 7 proxy keys

HOW IT WORKS

1. OPERATION

The unit shall incorporate interlocking doors to ensure security is maintained and a clear opening is never presented. In normal operation, the unit shall always keep the non-secure side door closed and the secure side door locked to maintain optimum security.

- A. Operation 1 (Person with a bike transit):** The first door shall be activated by the Access Control ID authorization of an integrated device (supplied by the access control contractor) on both sides of the portal. The person requesting entry shall enter the portal and the first door will close and lock. Further passage is granted once the Bike Guardian Bike Tag, linked to the Access Control ID, is verified and only one person has entered the portal transitting with only one bike. The second door shall immediately open once the internal security system confirms the security criteria. In the event that any of the security sensors are activated, an alarm shall sound at the security guard post and the portal will prevent further progress.
- B. Operation 2 (Person without a bike transit):** The first door shall be activated by the Access Control ID authorization of an integrated device (supplied by the access control contractor) on both sides of the portal. The person requesting entry shall enter the portal and the first door will close and lock. Further passage is granted once the internal security system confirms the security criteria is met and that only one person has entered the portal. The second door shall immediately open once the person has been authorized. In the event that any of the security sensors are activated, an alarm shall sound at the security guard post and the portal will prevent further progress.

2. SECURITY FUNCTION

- A. Access Control Integration:** Identity verification access control devices can be mounted outside the portal to gain access through the exterior (first) door in to the portal. After the internal security system confirms the security criteria is met, the interior portal door will open into the secured area. Any attempt of unauthorized passage shall result in the interior secure side door not opening. A solid-state voice annunciator shall advise the individual of the infraction and advise them to exit the portal. The exterior (first) door will then open to allow the individual to exit the portal.
- B. A.P.B.D. (Anti-Piggybacking & Bike Detection):** The A.P.B.D. is a combination of sensors that scans the interior of the portal and determines if more than one person is attempting passage and in case a Bike Guardian Tag is detected, it verifies that there is only one bike inside the portal. If piggybacking is detected, or more then one bike is detected the passage is not authorized and the individuals must exit the portal through the exterior (first) door as described in point a) above.
- C. Attempted Passage:** Any attempt of passage by unauthorized individuals into the secure area shall prevent the interior secure side door from opening and a solid-state voice annunciator shall advise the person who committed the infraction to exit the portal. The exterior door shall unlock allowing the person to exit the portal on the ingress side.
- D. The Bike Guardian Tag:** The Bike Guardian Tag is a patented bike security tag that once fixed on to a bike can be activated. The activation of the Bike Guardian Tag is made by the The Bike Guardian Tag Activator. The Access Control system links the Access Control person ID with the ID of the Bike Guardian Tag received from the Bike Guardian Tag Activator. In case the Bike Guardian Tag is forced open or inadvertently opened, it will immediately be deactivated. A new Bike Guardian Tag will be required to link The Bike Guardian Tag ID and to the Access Control ID of the Bike owner.
- E. The Bike Guardian Tag Activator:** The Bike Guardian Tag Activator activates the Bike Guardian Tag and communicates information with the Access Control Systems by using one of the following protocol:

THE BIKE GUARDIAN

- RS 232
 - RS 485
 - TCP IP (optional TBE depending on Access Control System Type)
- Supplied with the Alluser proprietary protocol.

F The Bike Guardian Tag Activator: The first time Bike Guardian Tag is attached to the bike it is linked to the user card at an Activation Point using the Bike Guardian Tag Activator. The Bike Guardian activator is connected to a computer, via USB port, and will write on to a Bike Guardian Tag a unique code. This code will be used by the access control database to link the access control ID.

3. SAFETY

- A. Emergency Door Control:** The unit shall be equipped with a manual release for opening the exterior non-secure door in the event of mechanical failure or emergency. The manual release shall be located inside the cabin and clearly marked with a red handle. The handle can only be activated 30 seconds after the emergency push button, located nearby the handle, is pushed. As soon as the emergency push button is pressed an alarm will be sent to the control room to supervise no bikes will be stolen once the Emergency procedure is activated. Activating this device shall not allow the interior secure door to be opened and shall render the unit ineffective until the handle is returned to the normal position.
- B. Dry Contact Input:** The unit shall supply a set of contacts which, when activated by the building's fire detection or suppression systems, both doors shall open immediately.

4. PROJECT/SITE CONDITIONS

Install The Bike Guardian security portal below finished floor. Floor must be dead level at any point within the footprint of the Bike Guardian. A floor pan will be supplied in the case of a floor recessed version, which will need to be installed by others.

Please note under certain circumstances drainage may need to be provided in to the floor pit by others.

PLEASE NOTE

- The following items are not included within the quotation;
 - All building works to be carried out by others
 - All integration with the Access Control to be carried out by others
- Due to the internal design of The Bike Guardian, it is not compatible with the following;
 - Wheel chair access
 - Deliveries of materials – sack trucks, trolleys, hand carts or similar
 - Non-standard Bikes – Cargo bikes, Tricycle, Recumbent cycle, Tandems, Hand cycle, Cycle with trailers for children or deliveries etc
- Bike & User Weights
 - Standard Maximum Bike Weight up to 30KG (for non-standard applications please contact our technical department)
 - Standard Maximum User Weight Setting up to 130KG.

As our policy is to continually improve the products we offer we reserve the right to amend specifications without prior notice.