

SOLOTEK

Detecting pass-throughs for effective control over sensitive areas

SoloTek is a single-person detection system which can be used to strengthen access control and ensure that only one person tries to pass through a door or a sas at a time.

In all banking and high-risk sectors, such as nuclear sites, airports, refineries and cash centres, securing entry points does not only involve authorising access or identifying people. For sensitive areas of these buildings, the Access control systems must be strengthened by the addition of a system of control of the uniqueness of passage between unsecured spaces and secure parts.

SoloTek is a passage-detection solution ideally suited to managing people's access to sensitive or strategic areas.

Designed to increase the security provided by access control systems, SoloTek can be surfacemounted onto doors or airlocks and provides security between zones, preventing two people or more from simultaneously accessing them via a third-party system.

Thanks to a new type of technology that features infrared cells installed vertically, the SoloTek system can detect a person on their own as they pass through the infrared barrier.

Main features

- The SoloTek detection system features a set of infrared sensors incorporated into an anodised aluminium section that is surface-mounted directly onto the door frame or brickwork. The infrared sensors are hidden by black polycarbonate, rendering them invisible.
- On internal installations, they are protected against vandalism and sheltered from the elements.
- The reliability of this new high-precision telemetry sensor technology increases the efficiency of checks on passthroughs in a relaxed way – people can pass through without constraints and the number of false alarms is kept to a minimum.
- SoloTek can be used in a range of different usage configurations: inside or outside opening, with a single door or a doubleleaf, with a sliding door.
- SoloTek is compatible with a wide range of access control and intrusion detection systems and is preconfigured so it can be connected up to the SecurWave® system.

Technical characteristics

Can be mounted on:

- the door frame
- directly onto brickwork

Installation:

- Mounting at 5cm above floor level
- Using 3 x M4 screws (supplied)

Dimensions:

- Height: 1840mm
- Width: 60mm
- Depth: 60mm
- Maximum passage width: 3000 mm

Power supply:

- 12Vdc at 30Vdc (max. 10 Watts)

ADVANTAGES

- Plug & Play system, easy to install, no civil engineering work required
- Can be surface-mounted on all doors
- Immediate and accurate authentication and single passage recognition
- Compatible with all intrusion detection systems, so that information can be shared in real time
- User comfort provided by visual and/or audio indicators

Operation

Single-passage mode through a door:

- A set of infrared sensors is used for detection, measuring the user's profile at three different heights. The door must be fitted with a door contact (to be provided if necessary) that indicates whether it is open or closed.
- The SoloTek system is activated once the door has been opened (pass-through authorised by the access control system) and its integrated electronics analyse the data from the sensors in real time.
- If the user passes through on their own, the system indicates that the door has been passed through correctly. If several users try to pass through at once, a contact is issued which can be used – for example – to trigger video, an alarm on a CCTV system PC or to lock a second door. If this happens, the users are asked to exit and then re-enter one at a time.
- Whether or not users are granted entry is also communicated to them via an LED or an audio signal (buzzer or vocal synthesizer message).
- A time-stamped log of the last 100 pass-throughs is stored on an SD card.
- As well as detecting non-authorized entry attempts, SoloTek can detect tailgating and piggybacking.
- When used in airlock configuration, the system checks that only one person is inside it before opening the second door and allowing access.

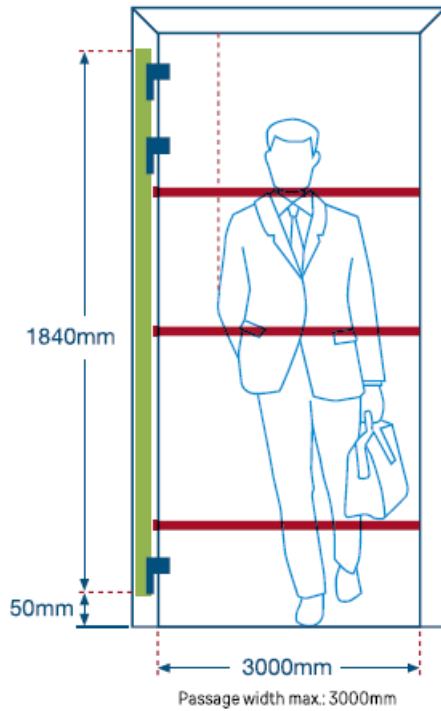
Possible SoloTek location



The height and angle of SoloTek's infrared sensors can be adjusted in order to adapt it to its environment. Furthermore, the infrared sensors' sensitivity levels can be adjusted for customised single-passage detection – ranging from the lowest to the highest.

In the case of a SoloTek installed on the side of the door opening, it should have an uncurved filling.

SoloTek used in conjunction with a door:



SoloTek in brief

Challenges:

- Ensure that users pass through one at a time
- Bolster the access control system's security
- Management people flow
- Prevent hostage situations

Options:

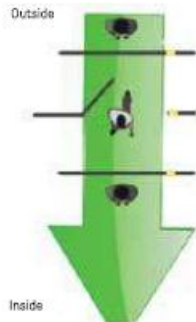
- Synthesized voice messages
- 12Vdc power supply

Applications:

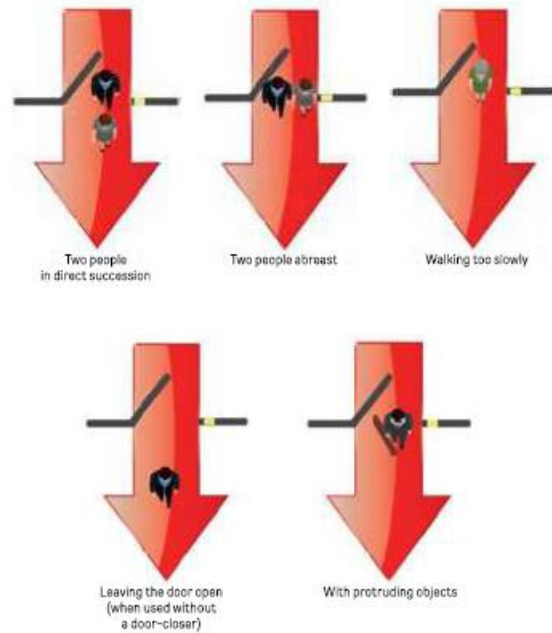
- Banks
- Company headquarters
- Company headquarters
- Administrative and government buildings
- Nuclear and high-risk sites
- Laboratories
- Refineries
- R&D offices
- Data centres
- etc.

The right way to pass through

- Single-passage mode on door:
- Door closed and SoloTek in idle state.
 - Open the door.
 - Pass through SoloTek, walking normally and without swinging your arms too much.
 - Keep any large objects (handbag, etc.) close to you.
 - Allow the door-closer to close the door behind you.



The wrong way to pass through



Product references

Product version	Item code
SoloTek	A18496
SoloTek with vocal synthesis	A18498

PACKAGING

The SoloTek is packed in a box with dimensions 2200 x 220 x 150 mm – Total weight: 4 kg

Limitations of use:

It is not possible to guarantee that a system is completely tamper-proof. The system must be used in a monitored environment.