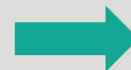
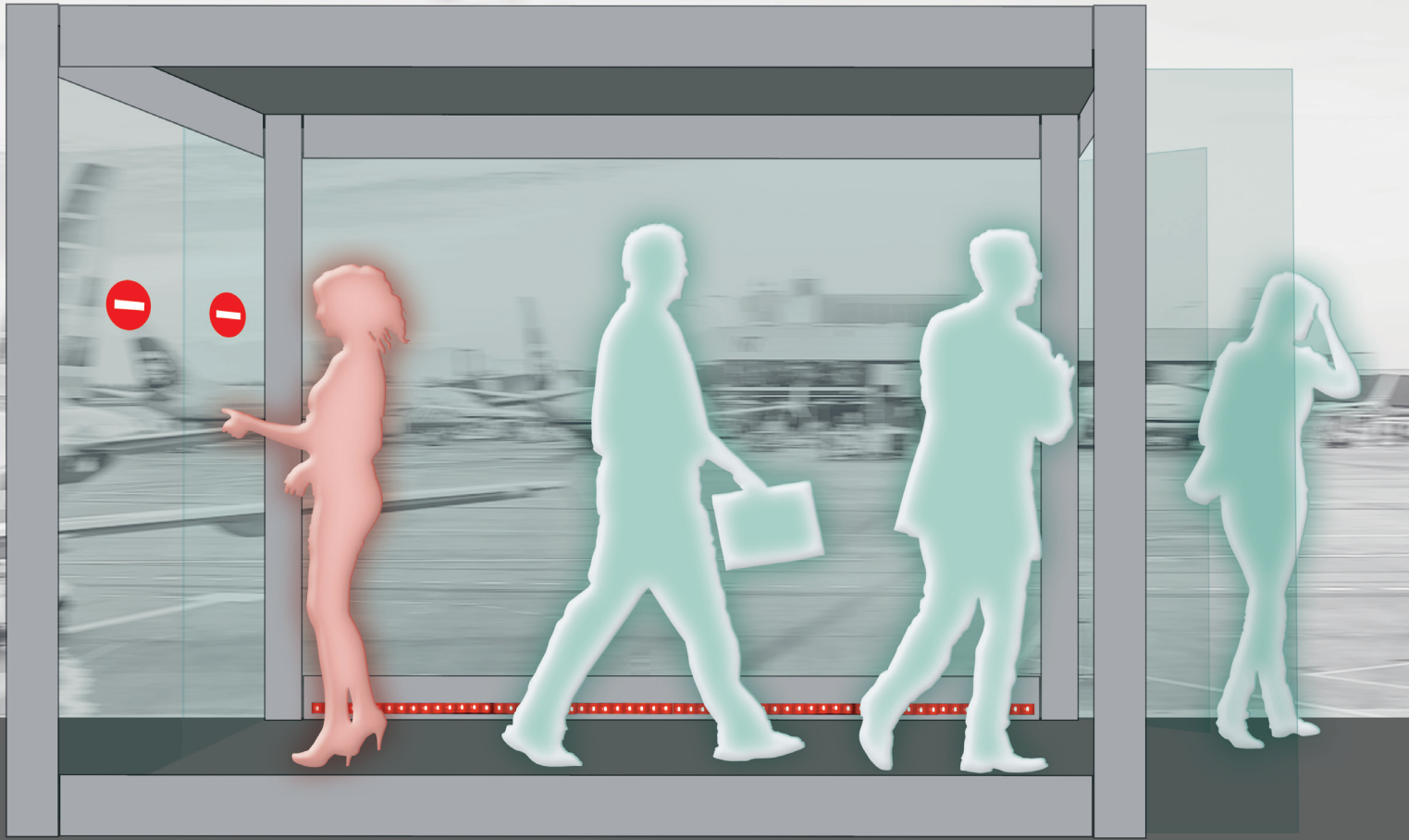
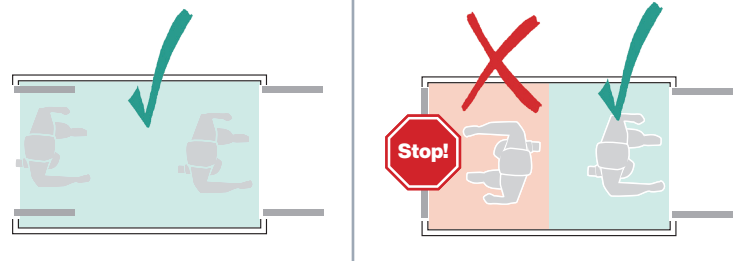


System Solutions for Access Control – in Airports

OnlyOne SDI –
Secure Direction Indication

Safe Transition from Airside to Land-
side | No Control Area Violation |
Optimized for Retrofit Business

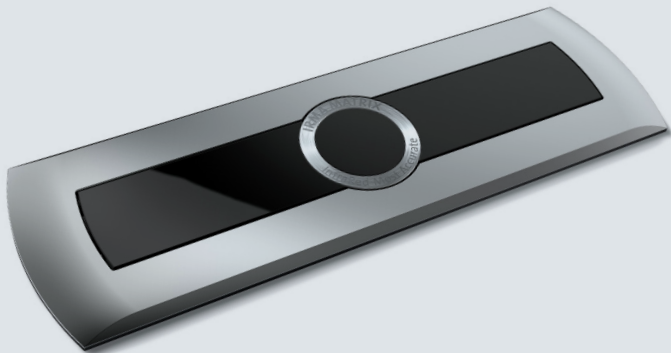


OnlyOne SDI – Secure Direction Indication

Automatic Person Flow Control with Reverse Direction Blocking

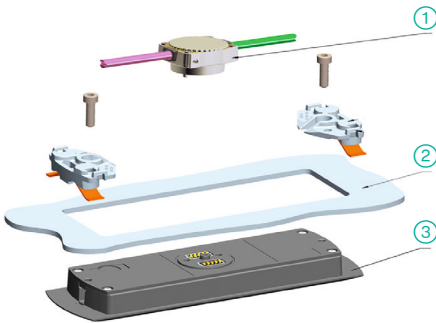
At airports, the transition from airside to landside must meet strict security requirements. Among other things, airports use one-way corridors that may only be passed through in the specified direction. The OnlyOne SDI System from Sensotek ensures the correct flow of people – even with a high volume of people traffic.

Thanks to the overhead mounting position, the 3D-ToF sensor allows complete monitoring of the gate area without any interfering obstacles. The sensor system must ensure that nobody can move in the opposite direction. Detecting the wrong direction of movement of one or more persons triggers a blocking mechanism that prevents anyone from passing through. Covering the sensor leads to a sabotage message, which can be evaluated separately or combined.



Installation

Mounting can be adapted to the installation conditions.



- ① sCON-S System connector
- ② Door cover
- ③ Installed sensor

Converter Box

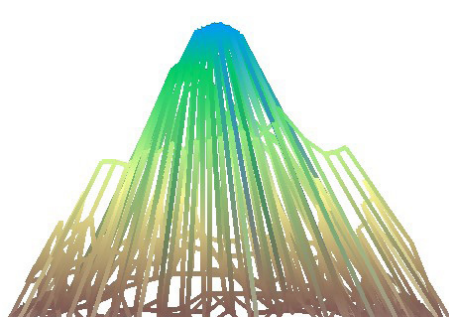
Digital output signals for easy connection with door control.



- Binary I/O
- Easy setting
- Potential-free relay contacts
- Semiconductor outputs
- 24 V DC

Analysis

Characteristic height profile of a person as seen by the sensor.



- Dynamic recording of objects
- Analysis of the recorded height profile
- Recognition of one or more persons
- No personalized data, no inference to individual person

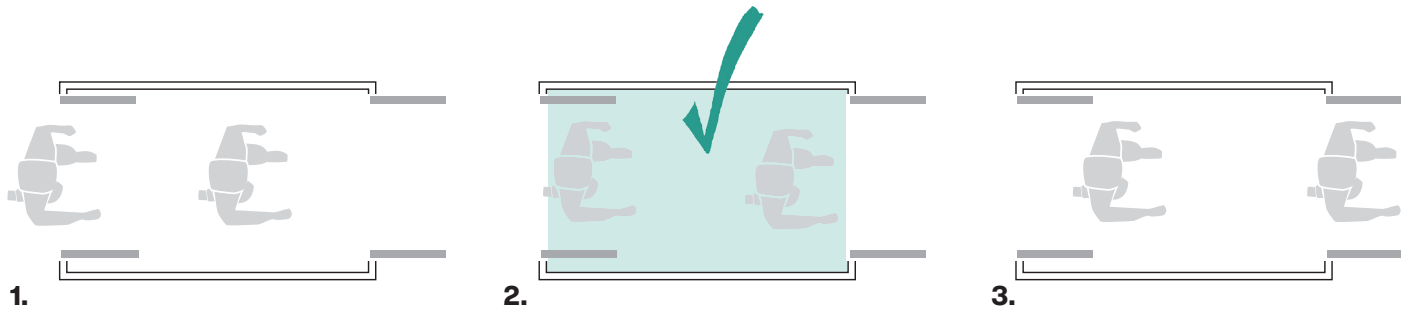
Features

- 3D-ToF sensor for direction monitoring at gates
- 3D image capture with true distance and contour information: detects people based on their height profile and movement behavior
- The Time-of-Flight (ToF) technology uses infrared light for independence from changing ambient light or temperature fluctuations
- Reliable and worldwide approved technology for direction monitoring

- Various interfaces: binary I/Os with potential-free switching contacts or semiconductor outputs, Ethernet, CAN bus
- Installation height: 2.00 m – 2.40 m

Mode of Operation

The sensor analyses the 3D surface contour in the detection field and recognizes people based on their height profile.



Persons enter the gate:

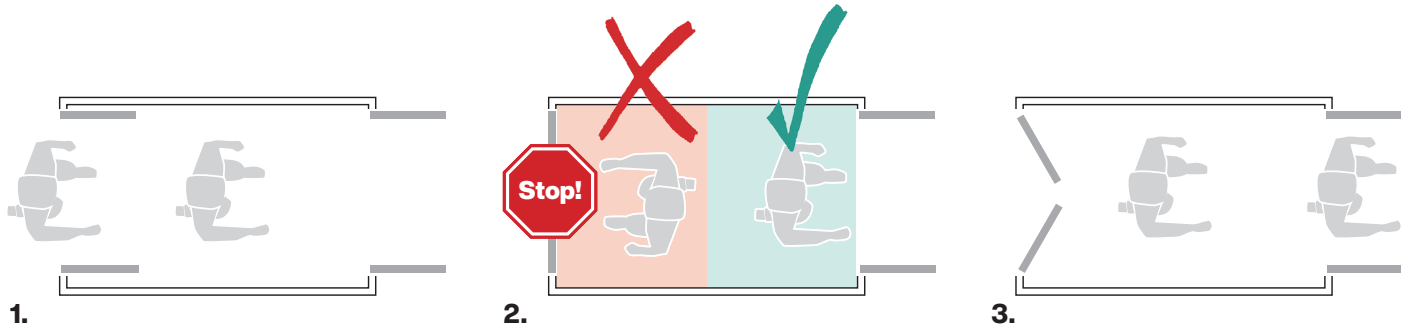
➡ The direction of movement is monitored.

The persons move in **forward** direction:

➡ All gate doors are open.

The persons leave the gate in the prescribed direction:

➡ The gate doors remain continuously open.



Persons enter the gate:

➡ The direction of movement is monitored.

A person reverses direction or moves **backwards**:

➡ The gate door closes in reverse direction.

The persons leave the gate in the prescribed direction:

➡ After detection of the correct direction of movement, the closed doors open again.

Highlights:

- 3D-ToF sensor optimized for direction monitoring
- No inclusion of personalizable (image) data of the respective person - DSGVO-compliant (General Data Protection Regulation)
- Compact data processing runs completely inside the sensor
- Practically independent of environmental influences
- Adaptable to a wide range of door system types and sizes
- Simplest integration into existing systems thanks to the provision of all common interface variants – retrofit suitable
- Particularly functional solution for maximum safe directional monitoring with simultaneous high throughput rate of people in the gate

Technical Data

Function display	ACC: LED green REJ: LED red Status: LED red Sabotage: LED red
Operating voltage	24 V DC +/- 10%
Amperage (24 V)	< 100 mA
Signal output	ACC, REJ, SAB; semiconductor & relay
Signal input	2 x PNP
Connection	Removable screw terminals, 4-pole and 5-pole
Dimensions	(H x W x D) 115 x 100 x 45 mm

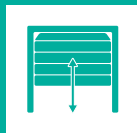


OnlyOne - Fast Separation System
Art. Nr.: 404-0010

Your Specialist in the Field of Entrance Automation for the Following Market Segments:



Door Automation



Gate Automation



Elevators



Escalators



Barriers



People Counting



Security



Fire Protection



Perimeter Security



Public Transport



Traffic Engineering



Smart Accessories



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