



## OSDG

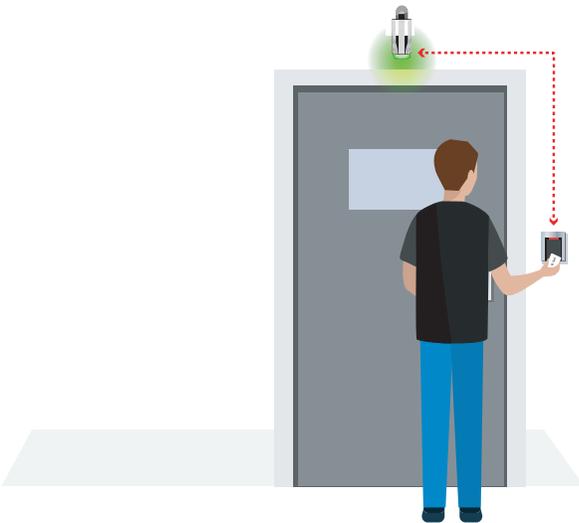
### Orion Secure DoorGuard™



The **Orion Secure DoorGuard™** tailgate detection system uses Quanergy's S3 disruptive solid state LiDAR technology to accurately determine when someone is attempting to gain entry through a secured access point (such as swinging doors, sliding doors, virtual/no doors), after an access card is swiped. The high accuracy of this product allows the detector to determine the difference between additional individuals versus bags, strollers, etc.



The **S3 Solid State LiDAR Sensor** is a critical component of DoorGuard™. The patented S3, manufactured by Quanergy and licensed to Orion for security applications, is a high performance, smart-sensing solution. The LiDAR's smart sensing technology generates thousands of Time of Flight (TOF) distance points per second. DoorGuard utilizes this data to create machine learning algorithms specific for entry and security doors. This Solid State sensor has no moving or vibrating parts and has the ability to be quickly programmed to adjust to various size doors and heights. The benefits are a smaller sensor, lower power and ease of use and maintenance.





## OSDG

### Orion Secure DoorGuard™

#### Method of Operation

When a person approaches the doorway for entry, they present an access card or credential to the access control card reader. The S3 sensor is mounted above the door using the options below. If the credential is valid and entry is authorized, the indicator light will change to a green arrow pointing in the authorized direction. A confirmation tone will sound when the optional local status light and local audible sound is added, giving the user both an audible and visual notification that they may pass through the doorway. A visual red "X" is displayed on the indicator light and an audible alarm signifies an invalid entry or a tailgating attempt.

#### Image Detection

A LiDAR sensor linked to an Orion primary input/output board 32-bit microprocessor.

#### Throughput

One person per second. (Subject to access control outputs).

#### Tailgate Detection

OSDG can be configured for different access control strategies. It comes per-configured with two main strategies:

- Tailgate Detection (virtual gate): allowing only one person to pass through the door with a valid credit.
- Counting: allowing more than one person while keeping track of the people entering and exiting through the doorway.

#### Bi-Directional Card Stacking

For increased throughput, the system is capable of receiving up to 99 authorized access card credits. The door(s) does not need to close between transactions and can remain in the open position until all of the credits are used. If all of the access credits are not used or after 5 seconds of inactivity, the system will reset. Card stacking is active in both directions simultaneously.

#### AVAILABLE OPTIONS:

##### Local Status Lights & Local Audible Sound

The indicator light is fitted into the DoorGuard casework to visually assist the user when passing through the doorway. The Orion sound card emits 4 different tones via an 8-ohm speaker to indicate lane status, i.e.: valid transaction/enter, invalid card/intrusion, or tailgate attempt. Digitally controlled, the sound card allows for volume adjustment on-board or via the optional Infinity Lane Control™ software.

##### Power

240w 24VDC 10A power supply can be provided. A dedicated 120V 15A circuit should be provided within 100 feet of each sensor location.

##### Door Prop Alarm

When the door is propped open, both the audible sound and local status light will alert the security personnel.

##### Mounting Options

Drop Ceiling, Pendant or Wall Mounted

##### Infinity Connection

Orion's Infinity Remote Lane Control software is user friendly, intuitive and maximizes SpeedLane performance. When adding DoorGuard to the Infinity software, security personnel can monitor occupancy, muster counts and door alarms.

#### WARRANTY

Three (3) year return-to-factory warranty on all electrical components.

*The drawing and picture presented is illustrative only. Orion Entrance Control, Inc. reserves the right to change product specifications without prior notice.*