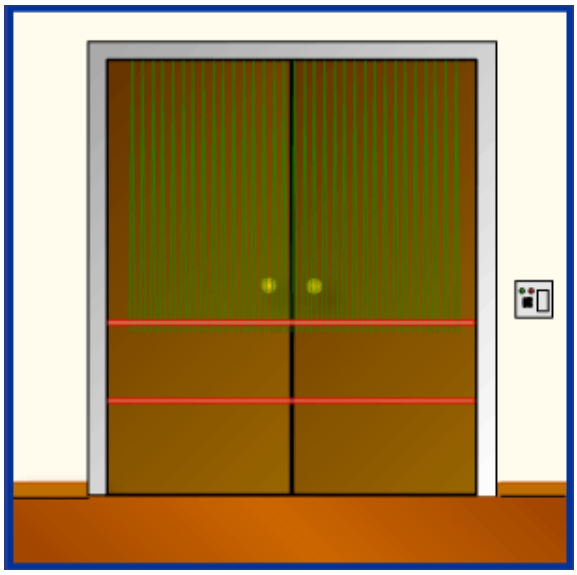
Kouba systems

TAILGATE DETECTION

Tailgate System with Overhead Sensors

Model No. TG-OS

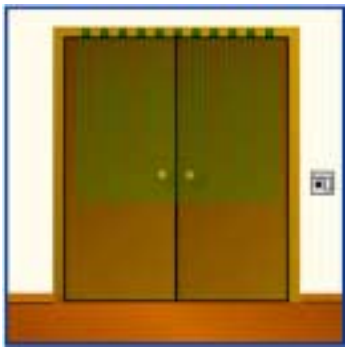


OVERVIEW

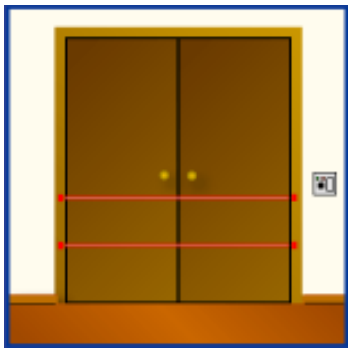
The TG-OS was designed for use in doors and passageways wide enough for at least two people to pass through at the same time. 2-Dimensional Sensing Technology mounted inside a Stainless Steel Housing uses two types of sensors working in conjunction with each other:

- The Overhead Sensor Array detects side-by-side passages.
- Directional Sensors detect tailgating.

Additionally, the sensors monitor door contact and provide local warning and alarm sounder when the door is forced open or propped open without use.



Overhead Sensor Array
The overhead sensor array detects side-by-side passages through the doorway.



Directional Sensors
The directional sensors are used to determine and verify the direction and count of the persons passing through the doorway.

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TECHNICAL SPECIFICATIONS

Power 12 VDC @ 1 Amp

Inputs 1 normally closed fully supervised door contact. Supervision may be disabled. Not required for passageway locations.

1 valid entry card momentary (1 sec. max.) relay from card reader system, activates when a valid entry card is accepted.

1 valid exit card momentary (1 sec. max.) relay from card reader system, activates when a valid exit card is accepted.

1 Request-to-exit (REX) input relay from card reader system or directly from REX.
Input monitored when door contact is monitored and the free exit dip switch is set.

1 system bypass relay from access control system activates when the tailgate system is to be bypassed.

1 count bypass momentary (1 sec. max.) relay from card reader system. This contact can be activated from the control room or from an additional keypad or reader. When this input is activated and a valid entry or exit card follows, the system will allow multiple people to pass through the tailgate and will reset after the door is closed. Count bypass is disabled when door monitoring is disabled.

Outputs 2 normally closed Tailgate Alarm Relays. (Entry and Exit alarm)

1 normally closed door Alarm Relay. Opens when door is opened without access, or when the door is held open past the door prop alarm delay.

85dB alarm sounder. Slow pulsing tone indicates warning alarm. Sounder is on during alarm.

2 green LEDs indicate access granted. (Entry and Exit) 2 red LEDs indicate busy.

2 yellow LEDs indicate present card.

Field Adjustments Tailgate Sensitivity Adjustment - sets the sensitivity of the tailgate detection.

Access Delay - adj. 0 - 20 sec. Sets the time that the door may be opened prior to the local warning alarm.

Warning Delay - adj. 0 - 20 sec. Sets the time that the local warning is active prior to the door prop alarm.

Alarm Automatic Reset Delay - adj. 0 - 20 sec. Sets the time that the alarm is active prior to automatic reset.

Door Prop Delay - adj. 0 - 20 sec. Sets the time that the door can be held before activating the warning tone.

8 position dip switch:
Switch 1 - enables or disables the monitoring of the door contact. Disable only if a door is not present.
Switch 2-7 - not used
Switch 8 - enables or disables free exit (door contact monitoring disabled) or monitors the REX input (door contact monitoring enabled).

Mounting Doorway Mounted Sensors are attached to the door frame with self tapping screws. Contact Kouba Systems for other mounting options.

The tailgate control circuit board is mounted next to the card reader interface module either in an equipment box near the door, or in the equipment room where the card reader system is located.

Sounder and LED Trim Plate may be mounted at the door mullion, or in a 1 gang box near the door.