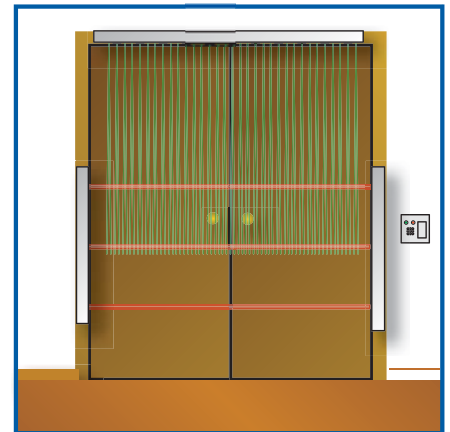


OVERVIEW

The Kouba Systems Tailgate with Door Control System (TG-DC) uses 36 inch directional sensor arrays mounted to the vertical faces of the doorframe in conjunction with overhead sensor arrays to provide enhanced monitoring and pedestrian counting and access control through secured doorways. *The TG-DC will integrate with any current access control system as well as older legacy access control systems.* The TG-DC communicates with the building access control system (BACS) with relay contacts. Display plates located near the card reader indicate system armed (red LED illuminated), access granted (green LED illuminated), and system in alarm (buzzer activated).

FEATURES:

- 36" or 72" OVERHEAD SENSOR ARRAYS
- 36" DOORFRAME MOUNTED DIRECTIONAL SENSOR ARRAY
- DETERMINE DIRECTION AND PEDESTRIAN COUNT
- SIDE BY SIDE PASSAGE DETECTION
- IGNORES WHEELED LUGGAGE AND BRIEFCASES
- LOCK CONTROL RELAY
- ONE PASSAGE ALLOWED FOR EACH VALID CARD READ
- TAILGATE ALARM
- FORCED DOOR ALARM
- DOOR PROP WARNING
- DOOR PROP ALARM
- ALARMAUTOMATIC RESET
- SYSTEM BYPASS
- COUNT BYPASS
- SINGLE GANG DISPLAY AND SOUNDER PLATES
- FIELD ADJUSTABLE TIME DELAYS
- FIELD SELECTABLE OPERATION
- STAINLESS STEEL FINISH STANDARD
- CUSTOM POWDERCOAT FINISHES AVAILABLE



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

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

Doorframe Mounted Directional Sensor Array - The TG-DC uses a series of active infrared sensors to monitor the direction and count of persons walking through a doorway. The sensor array can differentiate between a person and a cart and can also determine when two persons are walking side by side through the doorway. Walking side by side will generate an alarm.

Tailgate Alarm - One person is allowed to pass through the doorway for each valid card presented. If a person walks through the doorway without presenting a valid card, a TAILGATE ALARM is generated. The sounder on the display plate activates, and an alarm relay contact notifies the BACS of the alarm.

Door Forced Alarm - The TG-DC monitors the door contact and will generate an immediate DOOR FORCED ALARM if the door is opened without presenting a valid card or REX.

Door Prop Warning - When the door is opened after presenting a valid card, and a person walks through the doorway and the door remains open, an adjustable (0 - 20 sec.) ACCESS DELAY starts. At the end of the ACCESS DELAY, the DOOR PROP WARNING starts. The sounder beeps to notify persons in the area to close the door. If a valid card is presented for another person to walk through the doorway, then this time is reset.

Door Prop Alarm - When the TG-DC is in DOOR PROP WARNING, an adjustable (0-20 sec.) WARNING DELAY starts. At the end of the WARNING DELAY, the DOOR PROP ALARM is generated. The sounder is on, and the DOOR ALARM relay activates.

Alarm Automatic Reset - When the TG-DC is in TAILGATE ALARM, DOOR FORCED ALARM, or DOOR PROP ALARM, the alarm will remain active until the door is closed and the adjustable (0-20 sec.) ALARM AUTOMATIC RESET DELAY is complete. The sounder will turn off and the alarm relay will reset.

System Control Inputs - The BACS activates a separate relay for a VALID ENTRY GRANTED, VALID EXIT GRANTED, SYSTEM BYPASS, COUNT BYPASS, and REQUEST TO EXIT (optional input). The TG-DC directly monitors a normally closed door contact.

Lock Control Relay - The TG-DC has a double pole form C relay for lock control. The output relay has an active LED indicator that is on when the relay is active. The relay activates when a valid card is presented and the sensor array is clear. If a card is presented when the sensor array is active, then the relay will not activate (unlock the door) until the sensor array is cleared.

System Alarm Outputs - The TG-DC activates a separate relay for ENTRY TAILGATE ALARM, EXIT TAILGATE ALARM and DOOR ALARM (Door Forced or Door Held).

System Status Indicator Plates - The TG-DC has two single gang display plates. Each plate consist of a red LED which when illuminated shows the system is armed, a green LED which when illuminated indicates to the user to proceed, and a buzzer which activates on alarm. The display plates should be mounted adjacent to the card readers.

On Board Adjustments and Indicators - The TG-DC has on-board time delay adjustments, function select dipswitch, input status LED indicators, and output status LED indicators. Normal tailgate operation is CARD IN / CARD OUT passage. This can be changed to CARD IN / FREE EXIT passage or to CARD IN / REQUEST TO EXIT passage. Normal door operation includes lock control, door monitoring, door prop warning and alarm features. The door monitoring features may be disabled.

TECHNICAL SPECIFICATIONS

Power	12 VDC @ 1 Amp
Inputs	<p>1 normally closed fully supervised door contact. Supervision may be disabled. Not required for passageway locations.</p> <p>1 valid entry card momentary (1 sec. max.) relay from card reader system, activates when a valid entry card is accepted.</p> <p>1 valid exit card momentary (1 sec. max.) relay from card reader system, activates when a valid exit card is accepted.</p> <p>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.</p> <p>1 system bypass relay from access control system activates when the tailgate system is to be bypassed.</p> <p>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.</p>
Outputs	<p>2 normally closed Tailgate Alarm Relays. (Entry and Exit alarm)</p> <p>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.</p> <p>85dB alarm sounder. Slow pulsing tone indicates warning alarm. Sounder is on during alarm.</p> <p>2 green LEDs indicate access granted. (Entry and Exit) 2 red LEDs indicate armed.</p>
Field Adjustments	<p>Tailgate Sensitivity Adjustment - sets the sensitivity of the tailgate detection.</p> <p>Access Delay - adj. 0 - 20 sec. Sets the time that the door may be opened prior to the local warning alarm.</p> <p>Warning Delay - adj. 0 - 20 sec. Sets the time that the local warning is active prior to the door prop alarm.</p> <p>Alarm Automatic Reset Delay - adj. 0 - 20 sec. Sets the time that the alarm is active prior to automatic reset.</p> <p>Door Prop Delay - adj. 0 - 20 sec. Sets the time that the door can be held before activating the warning tone.</p> <p>Mode Selection:</p> <ul style="list-style-type: none">• Card In / Card Out• Card In / Free Exit• Card In / REX Exit• Door Monitoring Enabled• Door Monitoring Disabled
Mounting	<p>Sensor Housings are attached to the door frame with self tapping screws. Contact Kouba Systems for other mounting options.</p> <p>The tailgate control circuit board is mounted next to the access control system 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.</p>