

PART NUMBERS

12" Single Beam Unit for Directional Sensing Detector

TG-ADC-12-CI/FE Card In / Free Exit

TG-ADC-12-CI/CO Card In / Card Out

24" Dual Beam Unit for Directional Sensing Detector

TG-ADC-24-CI/FE Card In / Free Exit

TG-ADC-24-CI/CO Card In / Card Out

OPERATION

This application uses one TG-ADC interface board with the anti-tailgate firmware and a pair of single or dual beam sensor housings to monitor traffic through a single wide doorway. Unauthorized access is detected by monitoring access granted relays and the Doorway Mounted Sensors to determine and annunciate unauthorized passages through the door. Standard card reader system inputs and outputs are utilized by the TG-ADC.

FREE EXIT OR CARD OUT?

The TG-ADC interface board is capable of both Free Exit or Card Out operations with the ability to switch operation mode in the field. The FE/CO designation in TG-ADC part numbers identifies the number of included displays (FE = 1 display, CO = 2 display).

STANDARD SYSTEM INTERFACE

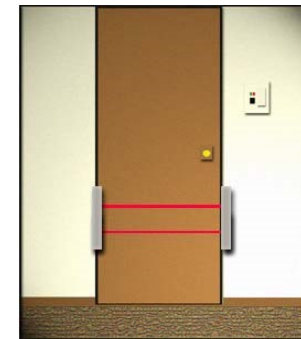
The access granted relays are monitored by the TG-ADC to determine when a valid card has been presented. The Normally Closed Alarm Relays are monitored by the card reader system. Included displays indicate access status and annunciate local alarms.

TAILGATE ALARM

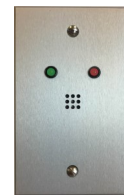
If a person walks through the doorway without presenting a valid card for the direction of passage, the alarm relay for the direction of travel opens allowing the access control system to register an alarm in the card reader database. The TG-ADC circuit activates the local sounder so that the alarm is annunciated at the door. The alarm is reset after about 4 seconds.



12 " SINGLE BEAM TAILGATE



24" DUAL BEAM TAILGATE



DISPLAY PLATE

CUT SHEET CONTINUED

TECHNICAL SPECIFICATIONS

Power	12/24 VDC @ 500mA
Inputs	1 Normally Open momentary (1sec pulse) Entry Access Granted Relay from access control system 1 Normally Open momentary (1sec pulse) Exit Access Granted Relay from access control system * Exit Access Granted only required for anti-tailgate systems configured for Card Out operation 2 Tailgate sensor signals for directional sensing.
Outputs	1 DPST Lock Output Relay rated @ 8 Amps 1 Normally Closed Entry Alarm Relay 1 Normally Closed Exit Alarm Relay Alarm sounder @ 85dB Green LED indicates access granted—Passage is permitted without alarm Red LED indicates secured mode—Passage will result in alarm
Field Adjustments	Access time is 7 seconds by default. Optionally the system can be configured to allow an adjustable delay between 1 and 30 seconds. The system resets after the access granted delay expires if no passage through the area is detected. Alarm Automatic Reset is fixed at 4 seconds. System resets 4 seconds after a count or tailgate alarm is detected. Tailgate sensitivity adjustment is available to allow for fine tuning of sensing process. Optional Door Mimic Relay operation is field selectable via dip switch. Card stacking operation can be enabled or disabled via dip switch.
Mounting	Doorway Mounted Sensors are attached to the doorframe with self-tapping screws. Contact Kouba Systems for other mounting options. ADC circuit board is mounted near to the card reader interface module. Mounting holes are 4-40 and adhesive standoffs are included. Sounder and LED Trim Plate may be mounted at the door mullion, 1 Gang box near the door, or in the ceiling above the door. A free-standing post is available where a doorway mounted unit is not desirable.
Dimensions	TG-ADC Control Board—6.5" X 3.35" Doorway Mounted Sensor Housing, Single Beam - 12" L x 2.25" W x 1.375" D Doorway Mounted Sensor Housing, Dual Beam - 24" L x 2.25" W x 1.375" D Free-Standing Post - 2" x 3" x 30" (post) - 12" x 12" x 3" (base cover)