

## PART NUMBERS

TG-LDA-IRS-CO Tailgate: IRISYS Sensor with Card In/Card Out Access

TG-LDA-IRS-FE Tailgate: IRISYS Sensor with Card In/Free Exit Access

## OVERVIEW (This sensor is not recommended for use on exterior doors)

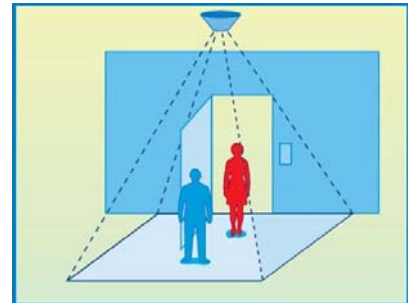
The Local Door Alarm Tailgate with Iris ceiling mounted pedestrian counting sensor (TG-LDA-IRS) monitors persons walking through a controlled door or hallway and an access control card reader system to ensure that only authorized persons pass through that secured area.

The TG-LDA-IRS will generate an alarm if a person walks through the secured door or hallway without an access granted signal from the card reader system.

The system provides a lock output relay. This feature requires only one output for each card reader from the access control system to grant access to the tailgate system and unlock the door. This simplifies installation and lowers costs.

## FEATURES

- ◇ Ceiling Mounted Directional Array Based Sensor
- ◇ High Accuracy Counting of Multiple Persons In Sensing Area
- ◇ Low False Alarm Rate
- ◇ Unique Thermal Imaging Technology Operates in Any Lighting Conditions
- ◇ Large Coverage Area, 7'6" Wide when Mounted on 8 Foot Ceiling
- ◇ Lock Output Relay
- ◇ Card In / Free Exit or Card In / Card Out Operation
- ◇ Optional Local Warning Alarm
- ◇ Optional Door Held Alarm
- ◇ Optional Forced Door Alarm
- ◇ Optional System Bypass
- ◇ Tailgate Alarm or Count Violation Alarm Relay Output
- ◇ Display includes Access Granted and Secure LED's and Sounder
- ◇ Available with Industry Standard Proximity Card Reader Mounted on Display Plate



Iris Overhead Sensor

## DISPLAYS

Standard Display Plate



Optional Card Reader Plate



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## CUT SHEET CONTINUED

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### OPERATION

**ENTRY GRANTED** - A person presents a valid card to the entry reader at the door, and the access control system provides a normally open 1 second momentary Entry Granted relay to the TG-LDA control board to signal that access is granted.

**EXIT GRANTED** - If the system is card in / card out operation, then a valid card must be presented at the exit reader at the door and a separate momentary relay for Exit Granted from the access control system is required.

**FREE EXIT** – If the system is card in / free exit operation, then no exit granted signal is necessary from the access control system and persons may exit through the sensing area without causing an alarm.

**CARD STACKING** - The TG-LDA board counts the number of Access Granted signals that are received from the access control system and will allow that number of persons to pass through the sensing area without causing an alarm.

**LOCK OUTPUT RELAY** - When an Access Granted signal is received from the access control system, the TG-LDA control board activates the lock output relay to unlock the door. The lock power supply should be separate from the Tailgate System power supply.

**DOOR MONITORING** - The TG-LDA control board monitors the status of the door using an isolated Normally Closed door contact. If the access control system is required to also monitor the door, then a double pole double throw door contact is necessary.

**PEDESTRIAN COUNTING** - When the door is opened, then the TG-LDA control board counts the number of persons entering or exiting through the IRIS ceiling mounted sensor area, and matches that count with the number of Access Granted signals received from the access control system.

**TAILGATE ALARM** - If a person walks through the doorway without an Access Granted signal, then the TG-LDA generates a Tailgate Alarm. The local sounder activates so that the alarm is annunciated at the door. The Normally Closed alarm relay opens. The alarm is reset after about 4 seconds.

**OPTIONAL FORCED DOOR ALARM** – If the door is opened without an access granted signal, then a Forced Door Alarm happens. The sounder is turned on and the Alarm Relay activates. The alarm is reset when the door is closed.

**OPTIONAL DOOR PROP ALARM** – If a door is left open for longer than 20 seconds after a valid entry or exit, then the Local Warning Alarm happens. The sounder beeps to warn persons in the immediate area that the door is open. If the door is left open for longer than 20 seconds after the warning alarm starts, then the Door Prop Alarm happens. The sounder is turned on and the Alarm Relay activates. The alarm is reset when the door is closed.

**OPTIONAL SYSTEM BYPASS** - A Normally Open System Bypass input is available. Closing this input will bypass the Tailgate and Door Alarms.

**ALARM OUTPUT RELAY** – The Normally Closed alarm output relay opens when a Tailgate Alarm or Door Alarm happens.

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### TECHNICAL SPECIFICATIONS

<b>Power</b>	12 VDC @ 250 max.
<b>Inputs</b>	1 Normally Open momentary (1 sec max) entry Access Granted Relay from access control system. 1 Normally Open momentary (1 sec max) exit Access Granted Relay from access control system. Required only for Card In / Card Out systems. Not required for Card In / Free Exit system. 1 normally open maintained System Bypass. IRISY Ceiling Mounted Pedestrian Counting Sensor
<b>Outputs</b>	1 DPDT Lock Output Relay rated @ 8 AMP 1 normally closed Alarm Relay Alarm sounder @ 85dB Green LED indicates entry access enabled Red LED indicates secured mode - entry will generate an alarm
<b>Time Delays</b>	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 sensing area is detected. Alarm Automatic Reset fixed at 4 seconds. System resets 4 seconds after a count or tailgate alarm is detected. Optional Door Held Open Warning fixed at 20 seconds. System will generate local Warning Alarm if door is held open for 20 seconds after the last valid passage is detected.
<b>Field Adjustments</b>	Tailgate Sensitivity and sensing area adjustment using sensor setup software via RS232 serial port and PC with Windows 2000 or later.
<b>Mounting</b>	Ceiling Mounted Sensor is placed above doorway looking down at passage area. Ceiling mounting height should be between 7' to 14'. Higher ceilings can be accommodated with a custom bracket. LDA circuit board is mounted next to the card reader interface module, either in a makeup box or in the equipment room where the card reader system is located. 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.
<b>Dimensions</b>	LDA circuit board module – 10.5" x 10.5" sub-plate fits in 12" x 12" enclosure. Ceiling Mounted Sensor Housing - 4.4" diameter x 2" deep Sensing area – 7'6" x 7'6" @ 8' ceiling height Display plate – single gang electrical box Display plate with integrated industry standard proximity card reader – double gang electrical box