

# SAFE TURN ALERT 2.0

Bus to pedestrian mitigation with collision avoidance



**PROTRAN**  
TECHNOLOGY

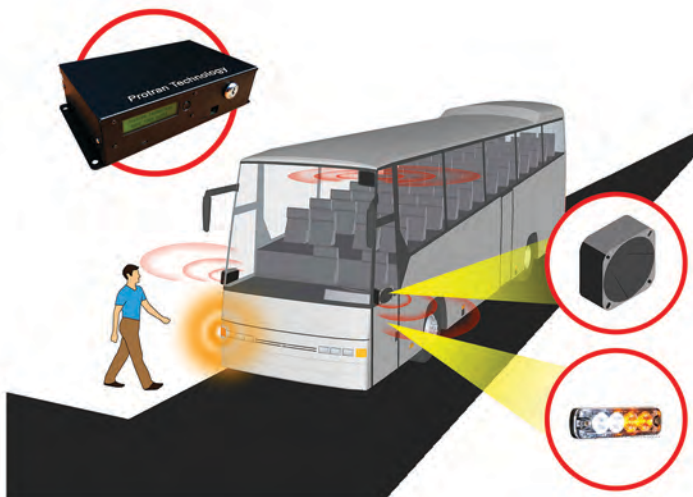
A Harsco Rail Company



## DESCRIPTION

The Protran Safe Turn Alert (STA) System is a standalone, passive warning system designed to play an audible warning message external and/or internal to the vehicle when the vehicle is making a right or left hand turn. The system also has the option for flashing LED strobe lights that act as a visual warning to pedestrians as the vehicle is turning. There are two options for triggering the STA system; proximity sensors mounted near the pitman arm or the system can be triggered with the vehicle's blinker.

The STA system is not designed to supersede any civil constraints or existing operator training policy, but serves as a secondary warning system to alert pedestrians and/or the vehicle operator while making a turn.



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### SPECIFICATIONS

Safe Turn Alert 2.0	
Input voltage	12 VDC
Fuse protected	Yes
Enclosure	Steel
Operating temperature	-40°C to +60°C
Storage temperature	-40°C to +85°C
Dimensions / weight	9¾" x 6" x 2¼" (24¾ x 15¼ x 5¾ cm) / 2½ lbs (1 kg)



PT-0080

### BENEFITS

- Outside warning announcement
- Inside reminder announcement
- Data logging
- GPS
- LCD display with joystick style menu and select controls
- Volume automatically adjusts based on outside ambient noise
- Multiple recordable messages
- Flashing LED option

### WARNING ANNOUNCEMENTS

#### Outside

- On both sides of bus
- Only on the side of the direction of the turn
- Optional – front half then back half for articulated style busses, plus the above options
- Volume automatically adjusts based on outside ambient noise.

#### Inside

- Reminder announcement for driver
- Can be muted

Multiple recordable messages

### APPLICATIONS

- Upgraded features give simplicity
- Latest technology configurations and ability to log data for safety and training purposes

### FEATURES AND OPTIONS

#### Data logging

- 1 month + 1 month data logs
- Easily import the data into an excel spreadsheet for analysis

#### GPS

- Data logging info: time, date, location, etc.
- Audio volume adjustment by geolocation (up to 16 different locations)
- Geo-fencing (muting of amplifier within a given geolocation)
- Change of default volume level for nighttime / daytime
- Automatically sets date and time for the Real Time Clock

#### LCD display with joystick style menu and select controls

- Display of current activity
- User adjustable option settings and features

#### Flashing LED option

### APPROVALS

- Over seven years revenue service
- Over 5000 systems in operation

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P.O. Box 417, Newton, NJ 07860  
Phone (973) 250 4176  
[www.protrantechnology.com](http://www.protrantechnology.com)

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