


PSA System Warning Signals

Scenario	Signal	Predictive Mode	Monitoring Mode
There is no approaching traffic			
The approaching traffic is likely to be able to stop in time			
			
The approaching traffic is likely NOT to be able to stop in time			
			

Important!

The system continues to monitor oncoming traffic and to generate warning signals in response to traffic activity while the bus is stopped, its doors are open, and the stop arm is extended. Therefore, there may be several signals produced during this time.

Disclaimers

The audible signals and system behavior described in this document are based on the pre-programmed default PSA system settings, but the settings are configurable to suit your preferences. The default settings have been tested and found to be safe and appropriate for most circumstances. However, given the variety of potential conditions that can be encountered, the default settings cannot be guaranteed to be safe and appropriate for all situations. Accordingly, you are responsible for adjusting or modifying the settings to ensure that (1) the settings are safe and appropriate for all circumstances encountered by the subject bus; (2) the settings comply with all state and/or local laws, rules and regulations; and (3) the settings conform to all of our current requirements and recommendations for the PSA system, please see <https://community.seon.com/psatraining/>.

This information is brought to you by



No system can prevent all incidents. Inattentive drivers, weather, erratic student behavior, and other factors can inhibit detection and overall system performance. Drivers must always keep proper lookout.

Part Number: 720-1002

PREDICTIVE STOP ARM™



New School Bus Safety System



PSA System Modes

When active, the PSA system has two operating modes.

Predictive Mode

- Activates when...**
- School bus stops
 - Doors are closed
 - Amber flashers are active

The System... ...predicts whether oncoming traffic will be able to stop before reaching the bus and produces visual signals to the driver.

The driver decides when it is safe to open the doors.

Monitoring Mode

- Activates when...**
- Bus doors are open
 - Red flashers are active
 - Stop arm is extended

The System... ...monitors oncoming traffic and produces both visual and audible signals based on radar readings.

Audible signals are intended for students leaving the bus and are emitted via loudspeakers mounted on the bus.

You have chosen to install a new safety feature on buses used to transport students to and from school.



What is the system called?

Predictive Stop Arm (PSA).



What does it do?

The system monitors oncoming traffic and produces visual and audible warning signals to alert the driver and the students when it's deemed unsafe to cross the street.



How the PSA system works

technology in simple terms

The PSA system uses:

- Radar technology to track oncoming traffic.
- Analytic algorithms to predict whether the traffic will be able to stop before reaching the bus.

Radars, with a range of 984 ft (300m), continuously monitor traffic approaching from both the front and rear and track its speed and distance from the bus.

Based on radar readings and detected vehicular activity outside preset parameters, the system produces warning signals intended to aid the driver and give students time to step out of harm's way.