

## SPECIAL FEATURES

- *Emphasizes Personnel Safety while Maintaining Productivity.*
- *Provides 4 Different Zone Speeds.*
- *Interfaces with an unlimited number of Zone Speed Receivers™.*
- *Operator Tamper Resistant.*
- *Built-in Zone Indicator Display.*
- *Provides 2 Flood Zones or Single Transition Zone.*
- *Zone Selection Programmed with Single Button.*
- *Green Status OK Light.*

## FUNCTIONAL DESCRIPTION

The P1 Zone Speed Transmitter™ is installed in fixed location to define a geographical speed zone. The location is typically chosen at a boundary between 2 speed zones. Each P1 Zone Speed Transmitter™ module has 2 individual transmitters. One of the transmitters broadcasts a speed zone in one direction. The other broadcasts another speed zone in the opposite direction. A Zone Speed Receiver™ that is exposed to these zone speed broadcasts is able to detect the zone boundary, and change the allowable maximum speed as it transitions from one speed zone to another.

Each of the 2 transmitters in the P1 Zone Speed Transmitter™ module is capable of transmitting 4 different zones. Only 1 zone can be transmitted by each transmitter at a time. The specific zone that each transmitter in the P1 Zone Speed Transmitter™ module is transmitting is programmed with a single button during power-up. The single button is located next to a numeric display on the P1 Zone Speed Transmitter™ module. The numeric display indicates the current zone selection. It also shows the selected zone during programming. The display only shows the zone information during power-up/start-up to conserve power. A Green Status OK light Indicates that everything is working during normal operation. The green status light is blinking with a relatively low duty cycle to conserve power.



2 wires facilitate the power interface to the P1 Zone Speed Transmitter™. A black ground wire connects to an external AC/DC converter, a red wire connects to +12V from the same AC/DC converter.

An AC/DC converter is also supplied to power up to 9 P1 Zone Speed Transmitters™. The AC/DC converter operates from an AC voltage supply in the range of 100 VAC through 277 VAC. This makes the AC/DC converter compatible with power sources such as a standard wall outlet all the way to 277 VAC commercial/industrial overhead lighting.

## APPLICATIONS

- *Forklifts*
- *Tow Tractors*
- *Mini Trucks*
- *Ground Support Equipment*
- *Plant Vehicles*
- *Off-Road Equipment*
- *Golf Carts*



# P1 Zone Speed Transmitter™

## ELECTRICAL

Nominal Input Voltage	12 VDC
Input Voltage Range	10 - 15 VDC
Current Draw (Nominal)	300 mA
Current Draw (Max)	350 mA
Reliability (mil 217)	225,000 MTBF

### EXTERNAL AC/DC CONVERTER

Nominal Input Voltage	100 - 277 VAC
Input Voltage Range	90 - 305 VAC
Power Rating (Nominal)	40 W
Output Voltage	12 VDC
Output Current	3.33 A
FCC Compliance	FCC 47CFR Part15 Class B
UL	UL8750
CE	

NOTE: Each AC/DC Converter can Power up to 9 P1 Zone Speed Transmitters™.

## ENVIRONMENTAL

Operating Temperature	-40 °C to +85 °C -40 °F to +185 °F
Storage Temperature	-55 °C to +85 °C -67 °F to +185 °F
Relative Humidity	0 - 100%
Mechanical Shock	20 G's
Splash Proof	
Transmit Range (Line-of-Sight)	80+ feet

## MECHANICAL

Weight	5 oz (142 grams)
Dimensions	5.375" x 2.625" x 0.75"
Connections	2 stranded wires 18 AWG
Enclosure	ABS (Black)
Insulation	Epoxy (Black) - UL 94V0
PCB	Fiberglass Laminate – FR4, UL

## SAFETY

The P1 Zone Speed Transmitter™ is built to comply with relevant UL and SAE standards.

## ADDITIONAL INFO

Please refer to the installation instructions for complete information on how to install this product in your facility.

All product documentation is available in electronic format and can be downloaded from Safety Systems & Control's WEB Site:

[www.loadingzonesafety.com](http://www.loadingzonesafety.com)

## PART NUMBERS

P1 Zone Speed Transmitter™

Part Number: ZSC-IRT-1

### EXTERNAL AC/DC CONVERTER

Part Number: ZSC-AC/DC-1