



**COLLISION
AVOIDANCE SYSTEMS**

CAS-3S VDI SONAR REVERSING SYSTEM

CAS-3S

VOICE DISTANCE INDICATION SONAR VEHICLE REVERSING SYSTEMS



Obstacle Detection Vehicle Reversing Aid Solution with Voice Distance Indication (VDI) Technology

CAS-3S Sonar Obstacle Detection Solution

The CAS-3S Vehicle Reversing Aid is an automatic back up alert system that warns drivers of potential obstacles while backing up their vehicle. Using ultrasonic echo location sonar technology the system is activated when the driver engages reverse gear. A 6 zone variable audio pulse alerts the driver of potential obstacles. The audio pulse intensity increases and the audio frequency changes as the vehicle backs closer to the obstacle. Additionally and exclusively, the CAS-3S includes a VDI (Voice

Distance Indicator) module and uses an audible voice to inform the driver how close the rear of the vehicle is from the obstacle calling out the distance in feet starting a 8 ft then 5 ft, 3 ft, 2 ft, 12 inches, and finally crash.

The CAS-3S Vehicle Reversing Aid is suitable for use on passenger vehicles, light vans, mini buses, sport utility vehicles, pickup trucks and light commercial trucks less than 7 1/2 feet wide.



CAS-3S - Key Features

- Voice Distance Indication
- Blind Area Alerting
- Proven Sonar Sensor Technology
- Long Range Detection of 8 feet
- Close Range Detection of 12 inches
- 4 Sensors for Wider Vehicles

BLIND AREA ALERTING:

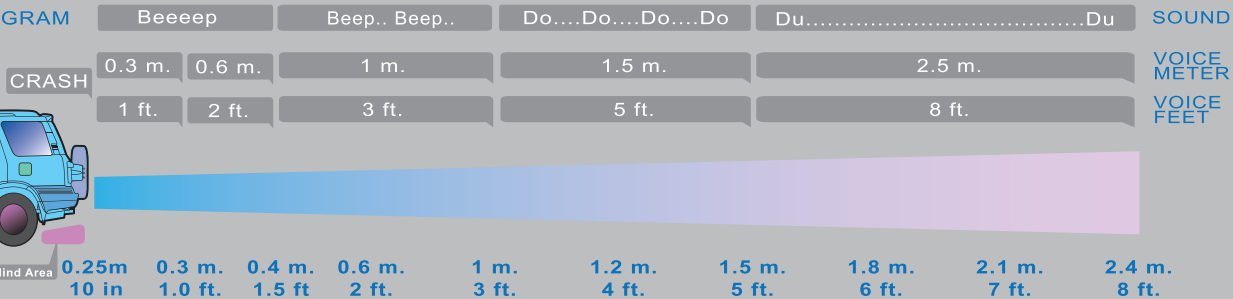
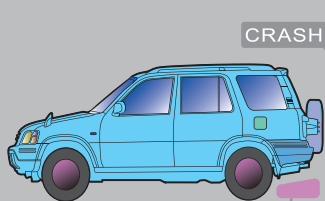
As with all sensing systems there are blind areas in the sensing patterns due to the cone or triangular nature in the way the sonar pulse is emitted. Whenever an object moves from a covered area and into one of these blind areas a special warning alert message and a very loud tone "OBJECT IN BLIND AREA" will be transmitted twice or until the operator takes the vehicle out of reverse. This is especially helpful for detecting moving objects such as a pedestrian, an animal, a forklift or other moving vehicles that may be behind your vehicle and in harm's way.

DETECTING PATTERNS:

The typical performance detecting pattern for the follow object types are:

<u>OBJECT</u>	<u>EFFECTIVE DISTANCE</u>
Concrete Wall	8 feet
Vehicles	5 to 8 feet
Pedestrian	3 to 5 feet
Post - 3 ft tall, 3 in diameter	3 to 5 feet

AUDIO SPACING DIAGRAM



CAS-3S - Specifications

General Specifications

Sensors

3 Acoustic, Surface Mount, Weatherproof

Dimension 8mm diameter
 Frequency Transmits at 33.5 kHz

Detecting Angles

Horizontal Approximately 30 Degrees
 Vertical Approximately 50 Degrees
 Detection Range 12 Inches to 8 Feet

Speaker

Type 40mm Diameter Magnetic
 Sound Output 80 db at 10 cm

Power Specifications

Input 11 – 15 Volts DC
 Operating Voltage 3.0 W

Environmental Specifications

Operating Temperature 122F to -4F

Physical Specifications

Dimensions

Processor 3.88 in x 2.75 in x 0.72 in
 Sensor 1.22 in x 1.22 in x 0.43 in
 Speaker 1.69 in x 1.96 in x 0.43 in

Cable Length

Sensor Cables 30 ft
 Power Wires 6 ft
 Speaker Cable 12 ft

Ordering Information

Part Number	Description
CAS-3S30	CAS-3S30 3 Sensor Reversing System
CAS-31	CAS-31 3 Input Processor Unit
CAS-32	CAS-32 Speaker
CAS-33	CAS-33 Surface Mount Sensor

Order Desk (312) 265-3828



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