

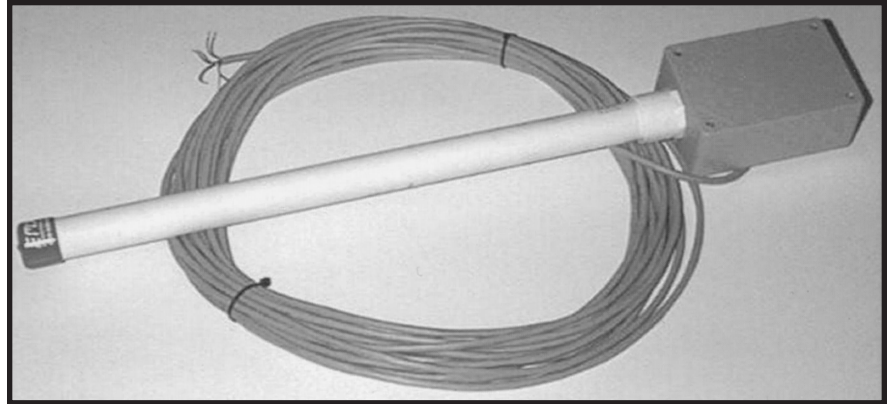
# OUTDOOR BURIED SINGLE PIECE MOTION DETECTOR

## CARSENSE 202 - DRIVEWAY SENSOR

The CarSense 202 is based on the well known CarSense 101 design. The single piece design provides the installer with simple installation procedure.

The CarSense 202 is buried in the ground so it is not noticed by a potential intruder or vandals.

The CarSense 202 has wide range power supply of 9V to 35V AC or DC. Low current consumption makes it an excellent choice for solar power applications.



## APPLICATIONS

- **Safety** - detects moving vehicles in an industrial environment where there are blind areas along the driving path and actuates warning lights.
- **Energy Conservation** - detects moving vehicles along a driving path in a warehouse and turns lights on only in the proximity of the vehicle.
- **Security** - detects approaching vehicles or an unauthorized movement of a parked vehicle and actuates alarms, video cameras or vehicle annunciator.
- **Access Control** - "free exit" vehicle detector for gates, overhead doors and parking barriers.

**Note:** Do not use the CarSense sensor for presence detection application. If presence detection is required use our LD-2000 loop detectors or IRB-4X infrared sensors.

### EMX Industries, Inc.

15437 Neo Parkway  
Cleveland, Ohio 44128

**Telephone:**

1-800-426-9912 or  
216-518-9888

**Fax:** 216-518-9884

**Email:** [sensors@emxinc.com](mailto:sensors@emxinc.com)

**Web:** [www.emxinc.com](http://www.emxinc.com)

**EMX**  
INDUSTRIES, INC.

# CARSENSE 202 - DRIVEWAY SENSOR

## Technical Information

Power Supply	9V - 35V, AC or DC
Power Supply Tolerance	± 10% from the power rating
Stand-by Current	10 mA maximum
Detect Current	45 mA maximum
Relay Type	SPDT
Relay Rating	1A 24V DC 120V AC
Surge Protection	MOV, neon and silicon protection devices

## Wiring Information

Connect the Red and Black wires to a power source of 9V to 35V the polarity of wires is not important. The relay output is as follows: wire red to 12v power, black to com

Green	-	Common	<span style="border: 1px solid red; padding: 2px;">wire to com on board</span>	
White	-	Normally Closed		<span style="border: 1px solid red; padding: 2px;">do not use</span>
Brown	-	Normally Open	<span style="border: 1px solid red; padding: 2px;">wire to exit loop</span>	

In most cases, when installing the CS202 in free exit or annunciator applications, the Green and Brown wires are used. In applications that need normally closed contact, as in magnetic lock installations, the Green and White wires are used.

## Ordering Information

CS 202-X

X is the length of lead-in wire in 50 feet increments

## Installation Notes

The CarSense CS 202 sensor uses passive probe sensor to detect changes in the earth's magnetic field. These changes are caused by a movement of ferrous metal objects such as a car in the proximity of the probe. The sensing area of each probe is in the shape of about 15 foot circle. The size of this detection circle changes with the size and speed of the moving car.

The CarSense 202 sensor can be buried in the ground about 6 inches deep parallel to the paved driveway. It also can be placed 2" deep in asphalt or concrete under the path of the vehicle. In all cases, the probe has to stay totally motionless and be free of any vibration in order to prevent false detects. The lead-in cable has to be protected from any damage to its outer insulation. Refer to the installation manual supplied with the unit for full installation instructions.