CARSENSE 303
MAGNETORESISTIVE VEHICLE DETECTOR

Applications
The CarSense 303 features advanced 3-axis, magnetoresistive sensing technology. The sensor measures Earth's magnetic field and responds to disturbances caused by ferrous objects. Three sensing elements provide magnetic field measurement in the X, Y and Z axes, improving detection sensitivity. The CS303's exciting new technology provides a high-sensitivity, compact, and cost-effective solution for reliable vehicle detection.

The small size of the CS303 allows for easy installation in pavement (below grade) with a single saw cut. It provides cost savings on labor and materials when compared to the multiple cuts and corner reliefs required for the installation of inductive loops. The rugged sensor is also suitable for above grade installations, making it ideal for use in confined areas or hidden in non-ferrous architectural components for security purposes.

- Three-dimensional presence detection - select X, Y and/or Z axis independently
- Remote control module for programming and relay contact output
- Stand-alone sensor stores background and settings in a non-volatile memory
- Single cut, low-cost installation
- ULTRAMETER™ sensitivity display for easy set-up
- Fast response for high-speed detection
- Logic Interface available for extended range, directional logic and more
- DETECT-ON-STOP™ feature will allow detection only when a vehicle has come to a complete stop near the sensor. This EMX exclusive technology ignores cross traffic in tight spaces.
Applications
- Boom gate control
- Drive-thru and car wash vehicle detection
- Truck/lorry detection at loading docks
- Vehicle counting in car park and toll booths
- Truck and tow-motor detection for industrial gates and doors

Sensing technology
ULTRAMETER™ display
Axis sensitivity
Environmental tracking
Local magnetic field nulling
Detection range
Power/fault indicator
Detect indicator
Pulse/presence
Detect-On-Stop™
Outputs
Output ratings
Connection
Operating environment
Housing
Environmental rating
Power supply
Current draw
Supply protection circuitry
Dimensions
Weight

Technical Data

Control Unit
Sensor

Area (ft.) Height at the center (ft.) Sensitivity (adjustment setting)
1x1 1 2
2x2 2 3
3x3 3 4
4x4 4 6
5x5 5 7

Ordering Information
- CS303-C-1 Control Unit
- CS303-DB-50 Direct Burial Sensor, Probe, 50'
- CS303-DB-100 Direct Burial Sensor, Probe, 100'
- CS303-FP-50 Direct Burial Sensor, Flat Pack, 50'
- CS303-FP-100 Direct Burial Sensor, Flat Pack, 100'
- CS303-L Logic Interface, includes black 11 pin socket base DIN rail mount

WARRANTY EMX INC., the product described herein for a period of 2 years under normal use and service from the date of sale to our customer. The product will be free from defects in material and workmanship. This warranty does not cover ordinary wear and tear, abuse, misuse, overloading, altered products, or damage caused by the purchaser from incorrect connections, or lightning damage. There is no warranty of merchantability. There are no warranties expressed, implied or any affirmation of fact or representation which extend beyond the description set forth herein. EMX Inc. sole responsibility and liability, and purchaser's exclusive remedy shall be limited to the repair or replacement at EMX's option of a part or parts not so conforming to the warranty. In no event shall EMX Inc. be liable for damages of any nature, including incidental or consequential damages, including but, not limited to any damages resulting from non-conformity defect in material or workmanship. Rev 19 01/23/19