



Rugged axle sensors for use on unpaved, rural roads

Installation

- Selecting a site for **RURAL**™ sensors

RoadRAMP RURAL™ axle sensors are recommended for use on Rural Roads, Dirt Roads, Gravel Roads and similar un-paved, off-highway sites.

Select a site for installing **RURAL** axle sensors where vehicles are maintaining a regular speed – avoiding corners, junctions, hills or inclines.

Install sensors across a flat section of road, where both shoulders are firm enough to hold spikes throughout the project – avoid ruts, potholes and large rocks.

- Installing **RURAL** axle sensors

Select a suitable site to install the **RURAL** sensors and the traffic counter.

Identify output end of **RURAL** sensor by colored marker and install this end of sensor closest to traffic counter.

Sweep loose gravel etc. from area around and under sensor. Lay sensor across road. Pass a 12 inch spike through wire loop on one end of sensor, and drive spike into a firm section of shoulder. Use washers to hold wire loop on spike.

Pass second spike through second wire loop. Stretch sensor taut across road and drive spike into shoulder to secure unit. The installed sensor should now be taut and laying flat on the road surface, so it will not “bounce”, “flutter” or “snake” when hit by vehicles.

Secure the traffic counter. Attach a suitable length of road tube (¼” i.d x 9/16” o.d) to barbed tube fitting on output end of sensor. Lay road tube across shoulder and attach to traffic counter.

Install two sensors, in parallel, for speed and classification sites.

Set-up traffic counter. Check sensors and instrument are counting and classifying correctly. Check and adjust the instrument settings for optimum performance– including Sensor Spacing, Axle Spacing and Direction.

Inspect site regularly to confirm that installation is continuing to perform satisfactorily.

Note - Snow plows, graders, mowers and sweepers will damage or destroy **RoadRAMP RURAL** sensors.



RURAL sensor with wire loop and 14” spike



Drive spike through the wire loop



Stretch sensor taut across road. Secure sensor with second spike through second wire loop. Connect output end of sensor to traffic counter.



Adjust traffic counter settings for optimum performance. Installation is now complete. Inspect site frequently.