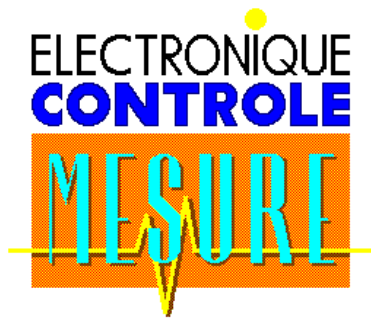
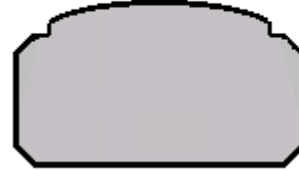


RES-2 Removable Treadles for Classification



RES-2

Removable resistive sensor



RES-2-XX/L-LF

COMPLETELY CUSTOMIZED :

- Length of sensors to fit at demand.
- Active & inactive sections in the same sensor.
- One or two sensitive elements in the same sensor.
- Connecting cable from 2 to 100 meters.
- Axle & single/dual tire detection based on design.

XX: sensor length (in dm).

L: length of connecting cable (in m)

CHARACTERISTICS

- Speed detection of 0 and 120 km/hr.
- Insensitive to slab vibration.
- MTBF of 5 million vehicles for perpendicular sensor.
- MTBF of 5 million vehicles for inclined sensor.
- MTTR of 10 minutes.
- Detection activation with only 50 kg.
- -25 to 80 deg. C operating temperature.



INSTALLATION

- Support in stainless steel.
- Very easy maintenance.
- Easy installation and replacement (10min.).
- Sensor not glued in its support.
- Support measures 4mm thick for minimal protrusion.
- European detector format for 2 or 4 sensors.
- Rail DIN box detector for 2 sensors.
- Support handles multiple sensors.
- Same level to the road without barring the passing wheels.

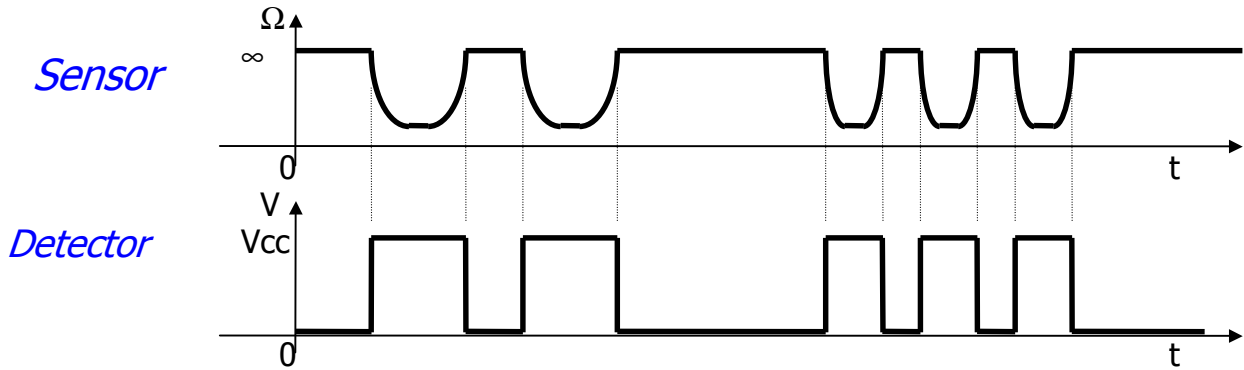


RES-2 Removable Treadles for Classification

Principle : The Sensor - Support - Detector set is intended to detect the axles of vehicles with speeds of between **0 and 120 km/hr**. The sensor is installed in a stainless steel support, embedded in the roadway. The pressure exercised by one or several wheels of the vehicle produces a variation in its electrical resistance.

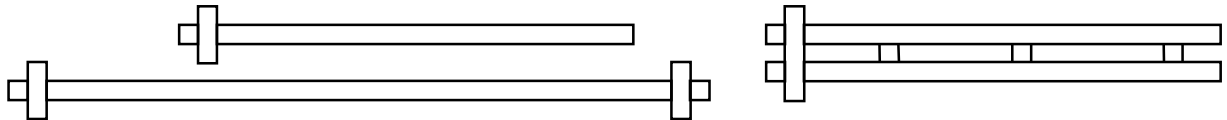
RES-2

The illustrations below show the resistance variations of the sensor as well as the corresponding response of the detector during the passage of axles.:



Sensor : The cross-section is trapezoidal, and both its length and the length of the connecting cable are adapted to suit the requirements of the customer. It is possible to have two sensitive elements in the same sensor or even sections active and others inactive. No metallic element moves or deforms inside the sensor. Its electrical resistance at rest is greater than **1 M Ω** , and when it is active this drops to below **40 K Ω** .

Support : The support is **4 mm-thick**, folded, stainless steel sheet embedded in the roadway, and a clamp guarantees retention of the sensor. Several types of supports are available ; single supports for one or two sensors, double supports, etc.



Detector : There are two types of detectors : for 2 or 4 sensors (DR2F or DR4F). Boards in 3U, 6TE European format, with rear DIN 41612 connector, and 12 VDC power supply. Detector operation is automatic, no programming is necessary. These detectors also exist in DIN rail casing (Module CAPELLA CR-2).

Examples of installations at toll gates :

