

RES-2

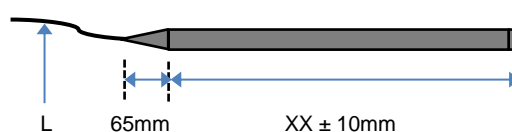
Removable resistive sensor



RES-2-XX/L

XX: Length of the part exposed on the lane (in dm).

L: Length of connecting cable (in m).



COMPLETELY CUSTOMIZED

- Sensor length customized to each site,
- Active and inactive sections in the same sensor,
- One or two sensitive elements in the same sensor,
- Connecting cable length from 1 to 100 meters.



CHARACTERISTICS

- Speed detection from 0 to 100 km/h,
- Detection : ≥ 60 kg,
- Insensitive to slab vibrations,
- MTBF of 4 million axles for perpendicular sensors,
- MTBF of 2.5 million axles for inclined sensors,
- MTTR of 10 minutes,
- Operating temperature: -20°C to $+75^{\circ}\text{C}$,
- Environment protection: IP 67.

INSTALLATION

- Stainless steel support, thickness 4mm,
- Easy support installation (small overall dimensions),
- Easy sensor installation and replacement (10 min),
- Sensor not glued in its support,
- Rail DIN box detector for 2 sensors,
- Multiple supports.



FRANCE

Head office

Electronique Contrôle Mesure
4 Rue du Bois Chêne le loup
Parc d'Activité de Brabois
54 500 VANDOEUVRE LES NANCY
☎ (33) 0383442413, Fax (33) 0383443797



Website : www.ecm-france.com

E-mail : info@ecm-france.com

U.S.A

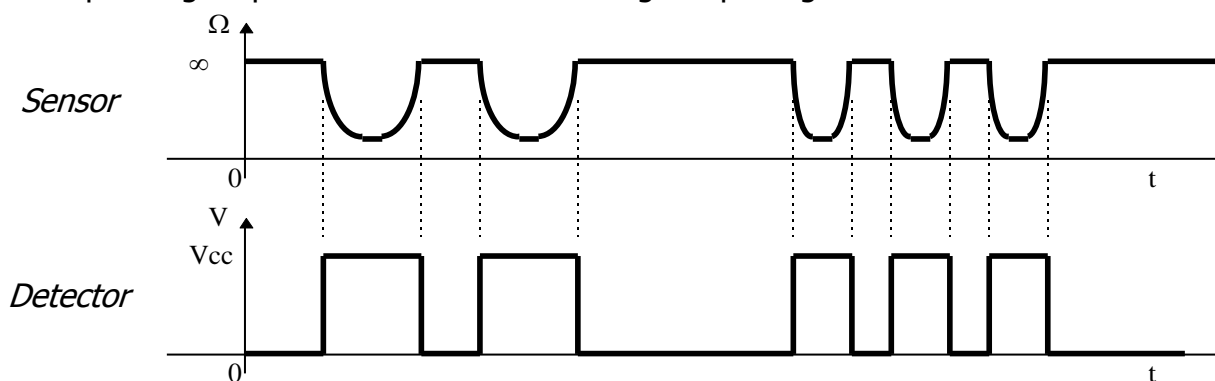


Electronic Control Measurement Inc
464 commercial drive
BUDA 78610 - TEXAS
☎ (512) 2959752, Fax (512) 2959753

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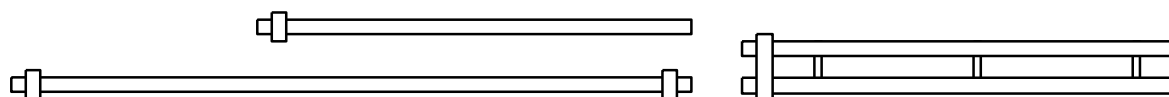
Principle : The « Sensor / Support / Detector » set is intended to detect the axles of vehicles with speeds from **0 to 100 km/h**. The sensor is installed in a stainless steel support, embedded in the roadway. The pressure exercised by one or several wheels of the vehicle produces a variation in its electrical resistance.

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



RES2 sensor : The length of sensor 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, drops to below **200 K Ω** .

SUP2 support : The stainless steel support (4mm-thick) is sealed in the roadway. Its inner form allows the sensor to be installed without glue and to be replaced very quickly. An attach ensures the maintaining of the sensor. Several types of supports are available : single supports for 1 or 2 sensors, double supports...



Capella CR2-T detector : It manages 2 sensors simultaneously. Two versions of power supply exist: 12V-DC or 24V-DC. The detector operation is automatic, no setting is necessary. The detector (CAPELLA CR2T module) is in rail DIN box.

Exemples d'installations sur voies de péage :

