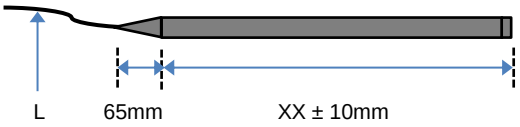
RES-2

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°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.

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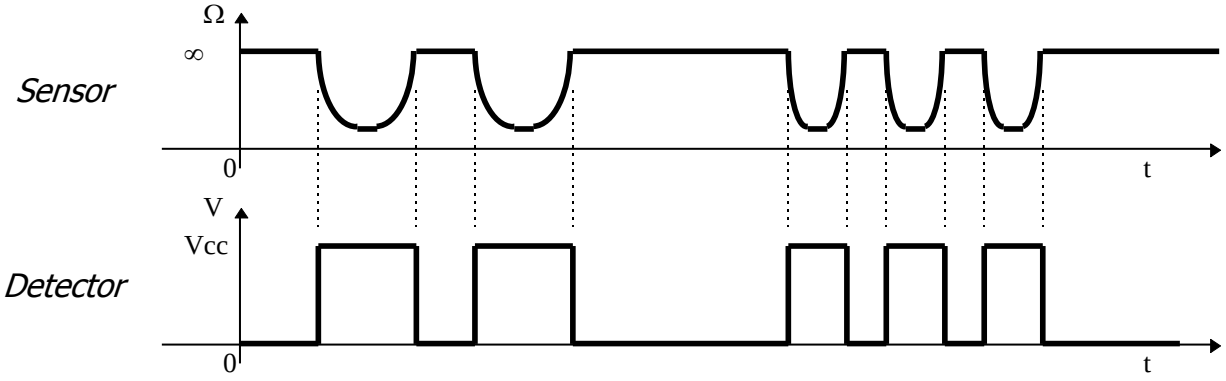
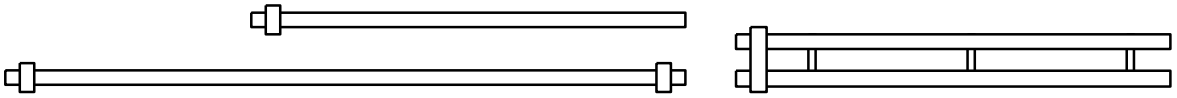
RES2

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 :



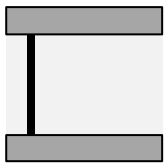
RES2 sensor : The length of sensor and the length of the connecting cable are adapted to suit the requirements of the customer. It is possible to have two sensitive elements in the same sensor or even sections active and others inactive. No metallic element moves or deforms inside the sensor. Its electrical resistance at rest is greater than **1 MΩ** and, when it is active, drops to below **200 KΩ**.

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…

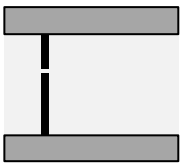


Capella CR2-T detector : It manages 2 sensors simultaneously. Two versions of power supply exist: 12V-DC or 24V-DC. The detector operation is automatic, no setting is necessary. The detector (CAPELLA CR2T module) is in rail DIN box.

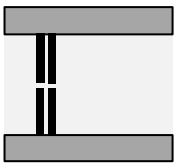
Sensor installation example on toll lane :



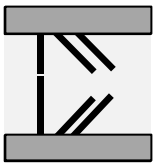
Detection of car and truck axles.



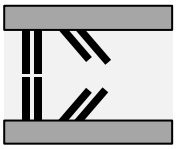
Detection of car, motor bike and truck axles.

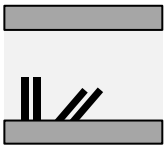


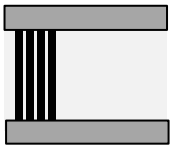
Detection of car, motor bike and truck axles. Detection of vehicles driving backwards.



Detection of car, motor bike and truck axles + detection of dual wheel.







Detection of car, motor bike and truck axles + detection of dual wheel + Detection of vehicles driving backwards.