1. Installation and Connection

Pneumatic connection
Connect the rubber tube to the pressure switch by inserting the male pneumatic fitting into the corresponding female socket of the unit.

Tightening
Screw by hand without exerting excessive force; the pneumatic seal is guaranteed even without the use of mechanical wrenches.

2. Positioning and Fixing on the Road

Laying
Identify the detection area, lay the tube on the road surface.

Anchoring
Fix the tube to the road surface using a mallet and masonry nails, inserting a nail in correspondence with each fixing ring. Lay the tube and put it under tension by exerting sufficient manual traction to extend it by 5-10 cm to obtain the correct tension.

Handling excess length
If the roadway is narrower than the length of the tube, block the excess part at the end of its travel with an additional nail and a retention elastic band.

Series connection
It is possible to connect multiple pressure switches together using a common bipolar cable and 4 mm banana connectors with a cross hole.

3. Operating Principle

The pressure exerted by the vehicle's tires on the rubber tube generates a pneumatic impulse that activates the pressure switch. This converts the pressure into the closing of an electrical contact, sending the signal to the connected devices (stopwatches, printers, or Realtimes systems) to record their transit time.

4. Warnings and Maintenance

Electrical Load Limits
Only stopwatches or chrono-printers must be connected to the external sockets of the pressure switch. The application of electrical loads exceeding 100 mA or 20V will irreparably damage the internal circuits of the system.

Transit Management (Double Impulse)
The pressure switch is not equipped with an internal timer and records every single pass (front axle and rear axle). To isolate and record the transit of the front axle only, it is necessary to interface the device with a stopwatch equipped with an inhibition function or use a timed cable.

Protection from atmospheric agents
Although the device is waterproof, it is recommended to protect it from high levels of persistent humidity to prevent oxidation of the pneumatic switch contacts. Storage To preserve the integrity of the threads and gaskets, it is advisable to leave the tube screwed to the pressure switch even during periods of inactivity.