

LP10

Compact Laser detector

comark

Non intrusive, low power consumption sensor

Comark's LP10 is a very versatile, non intrusive and low power consumption sensor; capable of performing a large variety of task such as: permanent or temporary people counter, permanent or temporary traffic counter, pedestrian detector at traffic intersections, event trigger, etc.

LP10 is very easy to install, and its reduced weight and dimensions allows to fitting it into existing infrastructure (for example guardrails, light poles, traffic lights, etc.).

LP10 is based on a single beam laser, with a high detection frequency (up to 1KHz) and a narrow angle to detect small objects. The light emitted (infrared light pulses) is reflected in order to be recognized by the receiver filtering the environmental light noises.

The sensor is equipped with a micro controller unit which process and analyze the information received form the laser. The configuration is set up through Bluetooth connection by downloading an application from your smartphone (Android & PC). The detector is capable to create aggregated data (1 min to 1 day package) with time, traffic counts and lane occupation rate. It is possible to configure 2 lanes or zones, and transit activation / deactivation time. The sensor detects traffic on 1 lane with high precision, and on 2 lanes with possible obscuring traffic on the second lane. To mitigate the effect of bad weather, the detector is equipped with a mid-intensity rain filter.

LP10 has to be installed at the side of the road at 80/100 cm height.

For temporary applications, LP10 may work for 1 week with a 15 Ah battery; or up to 55 days with a 100 Ah battery.



Laser type	Lidar Technology
Technology	Single beam Laser
Emitted Light	905 nm not visible
Laser class	Class 1
Scan angle	3°
Scan period	1 ms
Power supply	12 Vdc
Detection range	15 mt
Power consumption	0.7 W
Protection	IP65
Output	Bluetooth, relay
Temperature range	-10°C ÷ +40°C

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