

ATLAS : Radar sensor for distant vehicle detection

ATLAS is a radar sensor designed for distant vehicle detection. It can be used to replace inductive loops in applications such as speed display, speed warning and wrong-way driver detection (without all the roadwork costs of inductive loops) and also in other applications such as Variable Message Signs or traffic light management.

ATLAS detects the vehicle and measures its speed at a minimum range of 140m and commands the sign to light up if necessary to minimise the sign's global energy consumption (typical installation is made for a 200m detection). Non intrusive and easy to install, ATLAS can also be interfaced with any existing installation thanks to its standard serial port.



s Functions:

- Distant vehicle detection and speed measurement
- Speed warning, speed display, wrong way driver...
- 140m detection range guaranteed
- Programmable speed threshold

(For close proximity detection, please refer to our specific radar sensor "CRION")

s Case study:

Traffic light management with ATLAS

For this kind of application, ATLAS is used with two different speed thresholds: the first one is used to detect a distant incoming vehicle to lengthen the green time, and the second one is set at the road's speed limit to ask for a red light if the incoming vehicle is going too fast. This way, we can help drivers who respect the speed limit to continue their road safely and increase safety at the intersection by stopping any driver that would not respect the speed limit.

s Specifications:

- Outputs: Serial port RS232 and RS485 for remote connection
- Configuration: rotary switches or standard serial link
- Permanent or blinking output (relay) with (1-254s) adjustable delay
- Permanent memory dedicated to settings storage
- Power supply: From 10 to 30 V – DC
- Size: 180 mm x 130 mm x 50 mm
- Weight: 700g
- Certification: IP 67 polycarbonate box, IP68 accessories.



All our equipment is tested in real conditions, by the roadside before shipment.