

RAM11

Over Height Vehicle Detection



Twin single-beam laser for over height vehicle detection

The RAM Series have been developed to prevent strikes and collisions against roads infrastructures such as bridges, tunnels, underpasses, etc. In fact, Infrastructure strikes are costly to both highway and road network operators; creating hours of delay and disruption. Therefore, it is mandatory to have an accurate system that warns drivers in advance if their vehicles exceed the maximum height approaching overhead structure.

RAM 11 is based on two single beam lasers, with a high detection frequency (up to 1KHz) and a narrow angle to detect small objects.

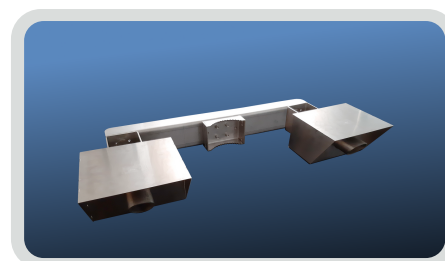
The light emitted (infrared light pulses) is reflected in order to be recognized by the receiver filtering the environmental light noises. The lasers are positioned horizontally in order to detect the vehicle travel's direction. It is important to highlight that RAM11, compared to RAM01, strongly reduces false alarms. RAM 11 is installed on the road's side and can detect overheight vehicle on 3-4 lanes.

Compared to systems based on photocells with transmitter and receiver, the RAM series have the advantage of easy installation as they are placed at the road's side; and they don't need to collimate transmitter and receiver.

The RAM11 is also able to provide the lane in which the overheight vehicle has travelled and operates under night and day conditions.

ALARM

RAM11 provides alarms in different ways when an over height vehicle is detected: relay contact; digital output.



ACCESSORIES

- Mounting Brackets
- Environmental Protections
- RAMCO Control Unit

Technology	Laser
Laser class	Class 1
Opening angle	0,5°
Detection Range	20 mt (10 cm object) 40 mt (15 cm object)
Minimum width of object	10 cm
Maximum vehicle speed	150 km/h.
Data line	Ethernet
Alarm	Relay, D/O
Power supply	12 ÷ 28 Vdc
Protection	IP65
Temperature range	-25°C ÷ +60°C

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