

# RAM20

## Over Height Vehicle Detection



*Wide detection area, up to 2 lanes detection with minimum false-alarms rate*

RAM20 is an accurate sensor that has been developed to detect overheight vehicles.

RAM20 is based on a laser scanner with 4 planes of detection, creating a wide detection area which helps avoiding false alarms; and an internal CPU that processes the signals received by the laser head to obtain all the data related to the overheight vehicle. The laser scanner has an internal heating system to avoid the moisture condensation on the optical lens. The light emitted (infrared light pulses) is reflected in order to be recognized by the receiver filtering the environmental light noises.

The RAM20 is also able to provide the lane in which the overheight vehicle is travelling and operates under night and day conditions. RAM20 can detect overheight vehicles on 2 lanes. In case of a 4 lanes road, it is possible to install two RAM20 systems, one on each side of the road.

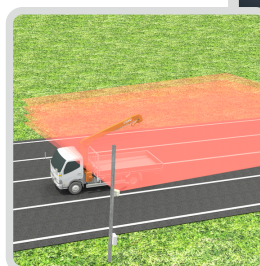
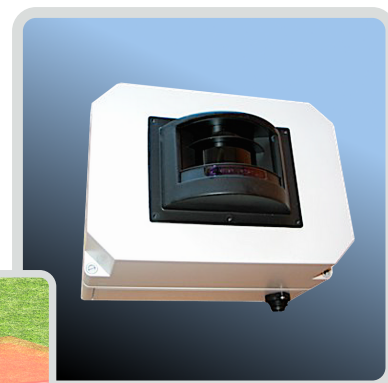
Compared to systems based on photocells with transmitter and receiver, the RAM series have the advantage of easy installation as they are placed at the road's side; and they don't need to collimate transmitter and receiver.

### VARIABLE MESSAGE SIGN

It is also possible to combine the laser detection with a variable message sign (VMS) to alert the driver about the potential danger.

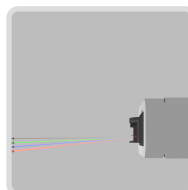
### ALARM

RAM20 provides alarms in different ways when an over height vehicle is detected: relay contact; digital output; software event (protocol).



### ACCESSORIES

- Mounting Brackets
- Environmental Protections
- Stainless Steel Casing
- Router
- RAMCO Control Unit



Technology	Laser scanner
Laser class	Class 1
Scan angle	96°
Detection Range	20 mt
Minimum width of object	10 cm
Maximum vehicle speed	150 km/h.
Data line	Ethernet
Alarm	Relay, D/O, software
Power supply	12 ÷ 28 Vdc
Protection	IP65
Temperature range	RAM20: -20°C ÷ +50°C RAM20T: -40°C ÷ +60°C

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