

RAM110

Over Height Vehicle Detection



Double technology for high accuracy counting & classification, up to 2 lanes detection, height measurement on all vehicles with double threshold

RAM110 is the highest level sensor for overheight vehicle detection, based on a laser scanner and a single beam laser. The RAM110 emitted light is reflected in order to be recognized by the receiver filtering the environmental light noises. The laser scanner is very accurate in measuring the height and detect the presence of a vehicle; while the single beam laser has a very high frequency and a narrow angle allowing the detection of objects of small dimensions even at 20 m. An internal CPU works in real time combining the data of both lasers and thus providing very accurate data. The algorithms are designed to detect small objects over the allowed height but to trigger the alarm only when the presence of a vehicle is detected, reducing the false alarm rate. Moreover, the system is also able to inform on which lane the vehicle is traveling. RAM110, installed on the side of the road, can detect over-height vehicles on 3 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.

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

RAM110 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 + Single Beam Laser
Laser class (both)	Class 1
Opening angle	Laser scanner 96° Single Beam Laser 0,5°
Detection Range	Laser Scanner 25-35 mt Single Beam Laser 50 mt
Frequency	Laser Scanner 60Hz Single Beam 500-2000Hz
Minimum width of object	50-100 mm
Maximum vehicle speed	150 km/h.
Data line	Ethernet
Alarm	Relay, D/O, software
Power supply	12 ÷ 28 Vdc
Protection	IP65
Temperature range	RAM110: -20°C ÷ +50°C RAM110T: -40°C ÷ +60°C

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