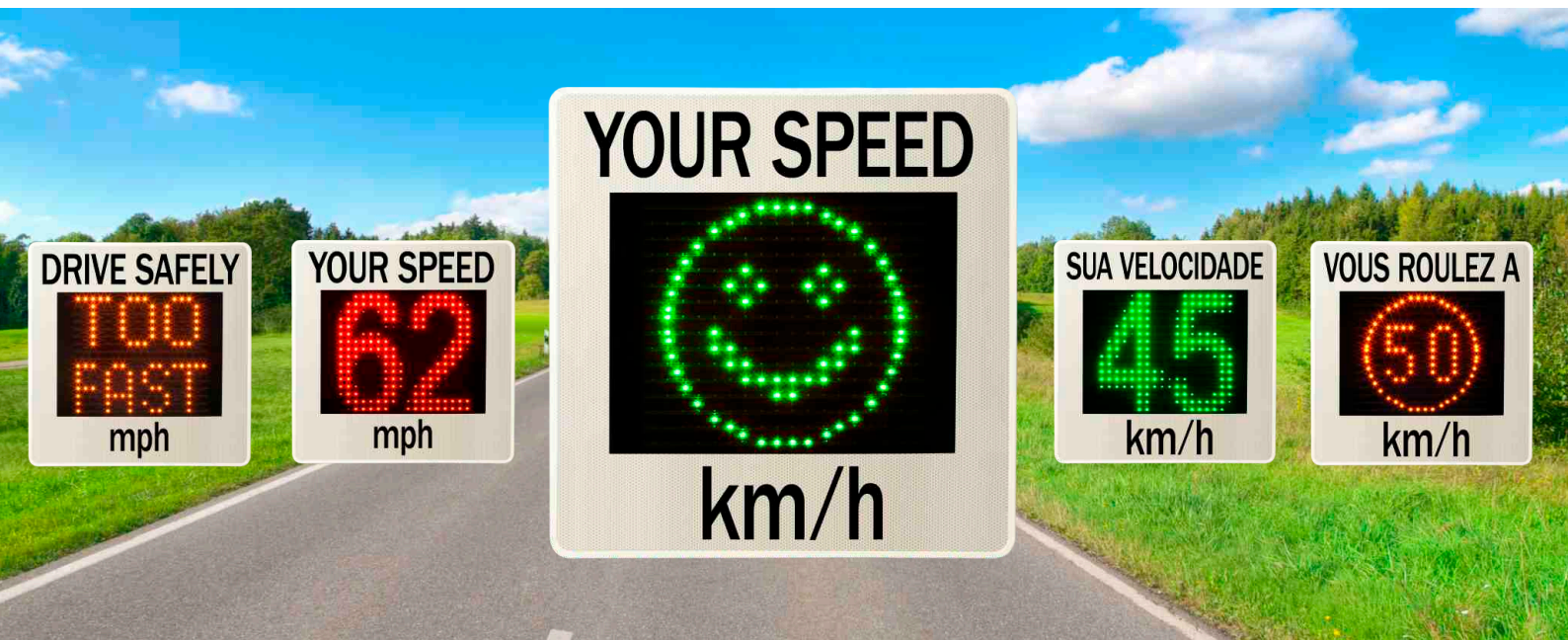


# Speed Display GR33L / CL



## SPEED DISPLAYS TRAFFIC DETECTION

*Radar. Detection. Software.*

### Features

- Dot matrix display
- Displays speed and pictures in **AMBER** (GR33L) or **RED, YELLOW** and **GREEN** (GR33CL)
- Flashes if speed threshold is exceeded
- Individual bitmaps can be uploaded such as text messages, smiling/frowning faces, speed limits, logos or any other symbols
- Adjustable minimum/maximum speed threshold
- Time controlled activation
- Automatic brightness regulation
- High contrast due to unique display construction
- Robust Lexan front window with anti-glare coating
- Data collection for more than 200.000 records (GR33CL)
- Bluetooth for display configuration
- Measurement of the supply voltage
- Deep discharge protection for batteries
- Low weight - only 4 kg!
- Easy one-man installation
- User friendly control software for Android and Windows
- **Unique value for money**

### Highlights

It is a fact that radar-driven speed displays slow down traffic permanently.

This positive effect can be attributed to the display's ability to alert drivers with responsive messages wherever the device is deployed (school zones, Kindergarten, zebra crossings or on busy roads in residential areas).

The GR33L and GR33CL are dot-matrix displays that are able to show speeds driven as well as individual bitmaps which is an additional benefit to common speed displays.

Both speed displays offer speed and time triggered bitmaps (such as smileys) and short text messages in **AMBER** (GR33L) or **RED, YELLOW** and **GREEN** (GR33CL). As an example the devices are able to show different pictures during school time and the rest of the day.

All these features are put into a compact and extremely smart enclosure.



## Electrical Data

<b>Input Voltage</b>	12V
<b>Power Consumption</b>	Low Power Design!
<b>Standby (Radar on, LEDs off)</b>	< 0,1W (!)
<b>Display active (speed value)</b>	< 1W
<b>Peak (all LEDs active)</b>	4W

## Radar Sensor

<b>Operating Frequency</b>	K-Band (24 GHz)
<b>Transmitting Power</b>	5 mW
<b>Certification</b>	FCC, IC, CE approved
<b>Operating Speed</b>	2 ... 199 km/h or 2 .. 150 mph
<b>Detection Range</b>	min. 100 m, avg. 200 m Truck avg. 300 m
<b>Accuracy</b>	± 3 %

## LEDs

<b>Brand</b>	High-Performance Osram LEDs „Black Series“
<b>Color</b>	Yellow 590 nm (GR33L) Red, Green and mixed color Yellow (GR33CL)
<b>Life Span</b>	Long Lifetime and Reliability
<b>Radiation Angle</b>	30° Lense
<b>Viewing Angle</b>	> 120°

## Display

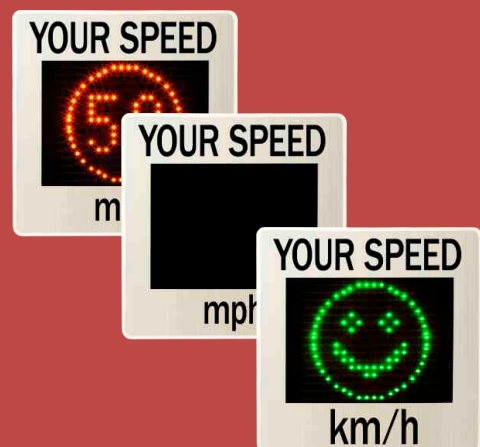
<b>Resolution</b>	16 x 18 Pixel + Ring
<b>Pixel Grid</b>	20 mm
<b>Digit Size</b>	30 cm
<b>Reading Distance</b>	approx. 150 m
<b>Readability</b>	Unique contrast due to Special Design
<b>Update Rate</b>	approx. 1 sec, adjustable
<b>Brightness Regulation</b>	Automatically
<b>Bitmap Memory</b>	250 Pictures

## Mechanical Data

<b>Dimensions</b>	62 x 62 x 4 cm
<b>Weight</b>	4 kg
<b>Enclosure</b>	ASA Plastics
<b>Front Plate Sheeting</b>	Highly Reflective, White
<b>Protection Degree</b>	IP67
<b>Front Window</b>	Lexan, Anti-Glare Coating
<b>Ambient Temperature</b>	-25°C to 60°C

## Scope of Delivery

- Speed Display GR33L or GR33CL
- Software: BT-Comm/GRS/Android App
- Pole Brackets (60 or 76 mm)
- Power supply Cable 12V
- Optional: Variable Pole Clamps
- Optional: Batteries and Solar Power Supply
- Optional: Remote Control Unit RC1



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