PolyComp

LEADERS IN LED DISPLAYS

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Speed Indicating
product information

version 1
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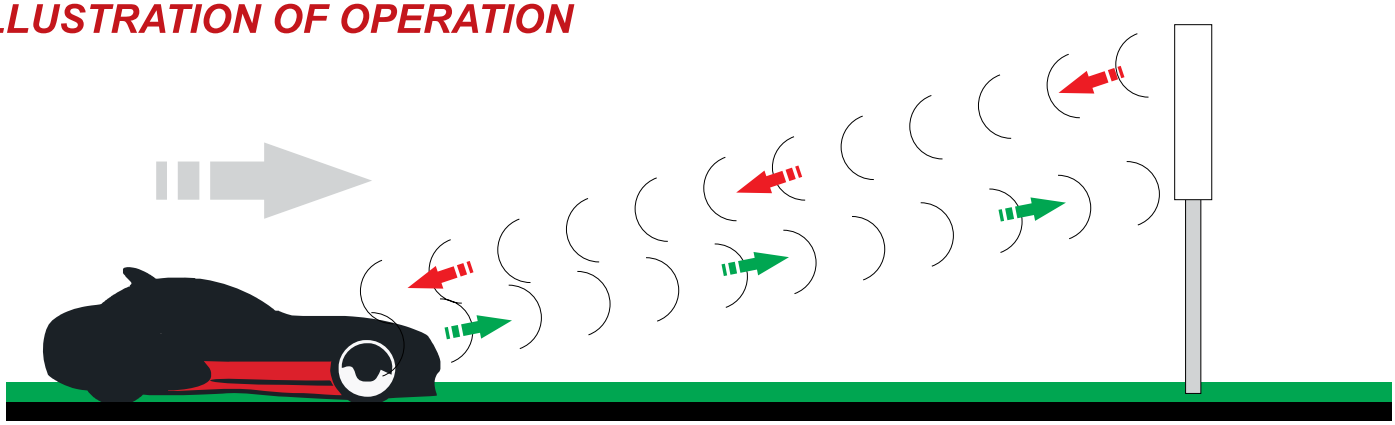
Overview

PolyComp's speed indicating display is a product designd to increase driver awareness and warn drivers when exceeding the specified speed limit.
The use of such displays may improve road sadety and prevent accidents due to high speeds.
Thes are used on freeways, motorways, public roads, also on suburband and industrial roads.
The speed indicator display can be used as a fixed tupe display or as a mobile unit mounted on a trailer with solar power.
The operator can set the speed limit for that stretch of road by using a laptop via RS232 communication port.
If the oncoming car exceeds the pre-set speed limit, the unit will show the speed of the car driving towards it, and two conspig beacons will flash for 2 seconds indicating to the driver that he had exceeded the speed limit.
There is also another option with a smiley face graphic instead of conspig beacons. The smiley face will show a happy face in green, an amber neutral face, and a red sad face to indicate to the driver if his speed is over the speed limit or not.
These speed indicators are an effective tool in the hands of municipalities, large campuses, mines, factories, complexes and other areas that require restricted speed limits.

SPECIFICATIONS

Display	-	960mm wide x 770mm high x 150mm deep
Weight	-	28kg
Character height	-	300mm
Structure	-	Powder Coated Aluminium
Power in	-	220V AC
Operating Power	-	7.5V DC

ILLUSTRATION OF OPERATION



Speed Indicating Display

Overview - Radar

A Short Survey Of Applications And Technology Of Radar Detectors
Microprocessor controlled radar detector for movement and speed detection applications at long distance range. Detects approaching and / or leaving vehicles and pedestrians (detection direction adjustable). Narrow detection zone with 12 x 17 antenna beam width.
Parameter setting by the serial RS232 interface and manually through switches. If adjustable speed threshold is exceeded the detector sets the signal output (relay) for an adjustable hold time.
The detection distance range is adjustable in 5 steps

Applications
- Speed warning signs
- Speed activated variable message signs (VMS)
- Wrong direction driver detection
- Railway surveillance
- Movement Detection
- Economic replacement of inductive loops

Technique

Sensor type	CW stereo-Doppler radar, planar module
Type Detection	Movement
Detected Direction	uni- or bidirectional
Antenna	12 x 17 Patchantenna
Transmit Frequency & power	24.125 Ghz / 5mW
Detection distance range (cars)	250m
Detected Speed range	0.7 - 255km/h
Power Supply (nom, min, max)	12V / 5.4V - 30V DC (main) Solar, and battery powered options are also available.
Current Consumption @ 12V DC	45mA
Signal Outputs	1 relay, LED
Interface (Standard)	RS232
Interface (optional)	RS485 or tty Interface
Data Protocol, format	ASCII, 8N1
Data Transmission Rate	9600 BAUD
Operation Temperature range	-40° - +70° Celcius
Housing (H x W x D)	125 x80 x 57mm
Housing Protection class	IP 66
Other Features	Manual parameter-setting / Battery discharge protection for 6V, 12V and 24V systems / Interface only for parameter-setting
Options (with costs)	230V-version