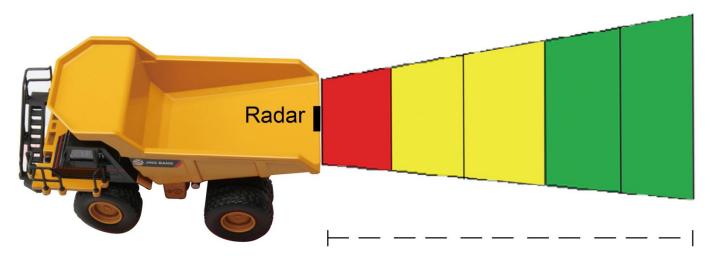


R.O.D.

Radar Object Detection System





Why use a radar system?

• To get the drivers attention in case of danger by using a visual or accoustic signal.

You can't expect someone to notice everything during the working process.

• To notify third parties (people, vehicles) in case of potential danger. (lights, horn)



R.O.D. - General

• For machines in the Construction world, Transport & Logistics (port, airport, warehouses, etc..), Agriculture etc...



- Use of FMCW technology to detect humans and objects.
- Visual and/or accoustic signals to warn the driver.
- 2 options
 - Linked to a visibility solution
 - Stand alone



R.O.D. - Technology

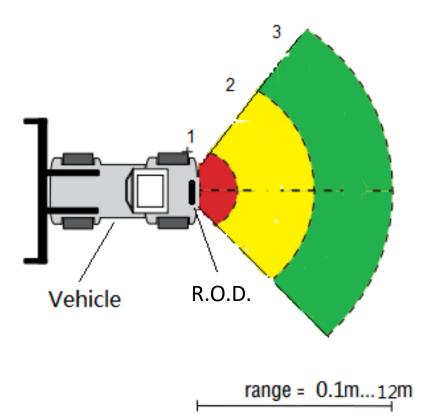
- FMCW technology
 - Frequency Modulated Continuous Wave: sending radio waves with a continuously variating frequency. Each wave has its own time stamp. The timing of detection after rebounding of the wave is compared to the time stamp.
- High performance measuring system
 - By using the FMCW-technology (use of radio waves) the system can detect objects without disturbing the signals which gives an accurate detection. It can even be used in extreme weather conditions.



R.O.D. - Technology

TVA-ROD-100°/1T1R AND TVA-ROD-56°/1T2R

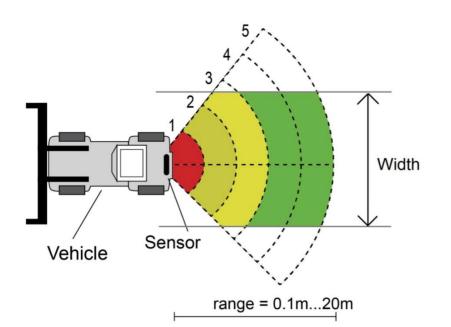
- Extended field of view (100°)
 - 3 different pre-set detection zones (in depth)
 - custom detection zones optional

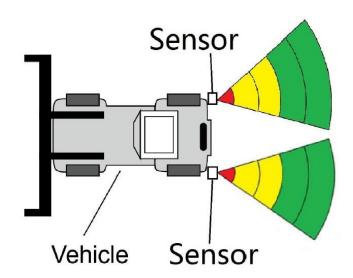




R.O.D. - Technologie

- TVA-ROD-56°/1T2R : Field of view 56°
 - 3 different detection zones (in depth)
 - ALSO possible to adjust detection zones lengthwise
 - Increased options for use
 - Avoid unnecessary alerts
 - Possibility to install 2 sensors and adjust them individually







R.O.D. - Performances

- 1. Linked to a visibility solution (Optional)
 - 3 standard pre-set detection areas
 - 0 to 4m (red)
 - 4 to 8m (yellow)
 - 8 to 12m (green)

And/or

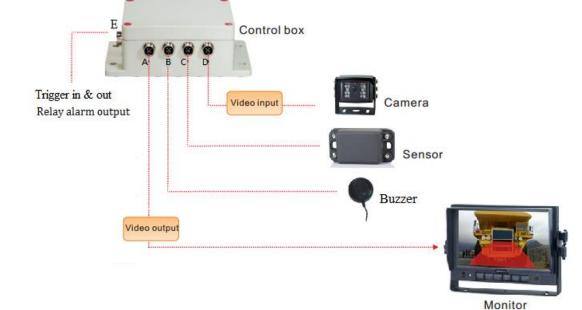
- 3 different outputs (action dependent on the zone)
- When detecting an object \rightarrow Notify the driver
 - Visual warning on monitor in color of the zone
 - Buzzer (reacts in function of the zone)





R.O.D. - Performances

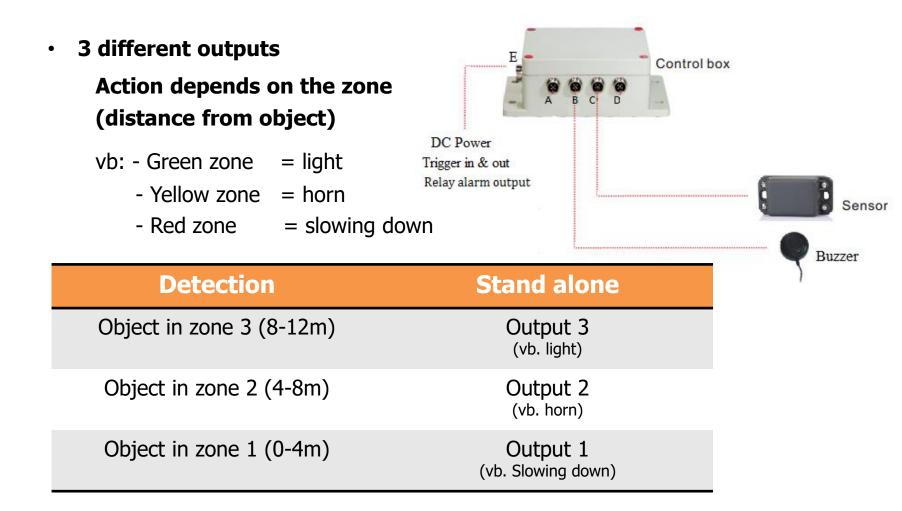
Detection	With visibility solution			
	Visual	Buzzer		
Object in zone 3 (8-12m)	Green		and/or	Output 3 (eg light)
Object in zone 2 (4-8m)	Yellow		and/or	Output 2 (eg horn)
Object in zone 1 (0-4m)	Red		and/or	Output 1 (eg slow down)





R.O.D. - Performances

2. Stand alone (without camera system)





R.O.D. - Advantages

- Frequency Modulated Continuous Wave (FMCW) radar technology
- Detects excellently even from closeby
- Both standstill as well as moving objects
- Works effectively in poor visibility, cold, heat, dust, etc.
- Accident prevention
- Up until 3 fixed detection zones
- Linked to a visibility solution (mono- or multivision) or as stand alone



R.O.D. - Advantages

- Multiple radar systems possible per vehicle (front and rear, sides)
- Multiple actions possible
- To notify the driver in case of danger, visual or accoustic signals can be used.

You can't expect someone to notice everything during the working process.

 Notifying of third parties (people, vehicles) in case of potential danger (light, horn).



V2S, the technology for your safety.

Together we would like to look for a solution for your visibility and safety problems.

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