

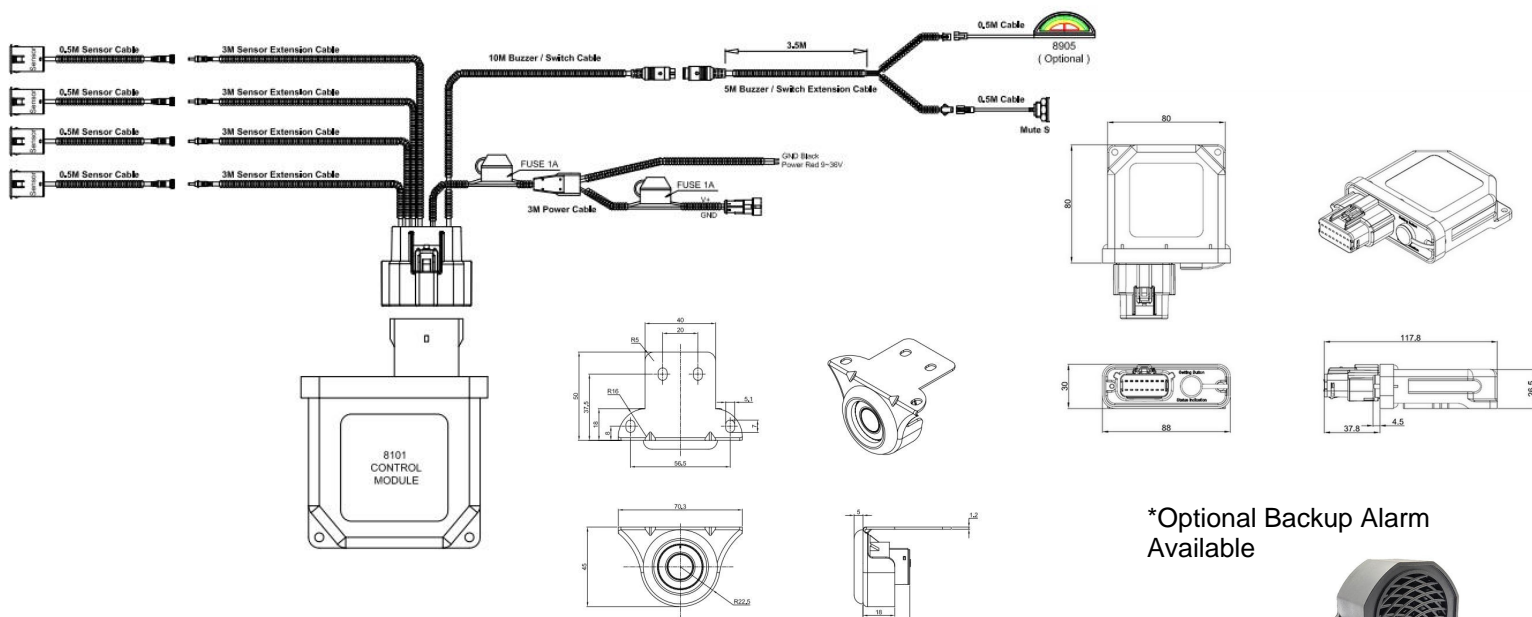


Smart Park 8101 Commercial Grade Obstacle Detection System For Commercial Vehicles

The 8101 Obstacle Detection System is designed from the ground up to endure the abuse of commercial vehicle service. A true Industrial Parking Sensor System.

Features

- Waterproof / Shockproof Control Module
- Rear or Front Operation
- 8ft Detection Range Rear / 5ft Front
- Waterproof / Dust proof Sensors (4)
- Extendable Cable for longer vehicle applications Up To 100' (Rear)
- Tri Color LED Display with Buzzer
- Direct Connection for Reverse
- Directly Connect a Backup Alarm*
- 33' Split Loom Covered Harness from Module to Driver compartment
- Under Bumper Mounts and Hardware Included
- Module mounts in rear of vehicle
- Digital Learning Eliminates Falsing from truck mounted obstacles
- 3 Year Warranty



*Optional Backup Alarm Available





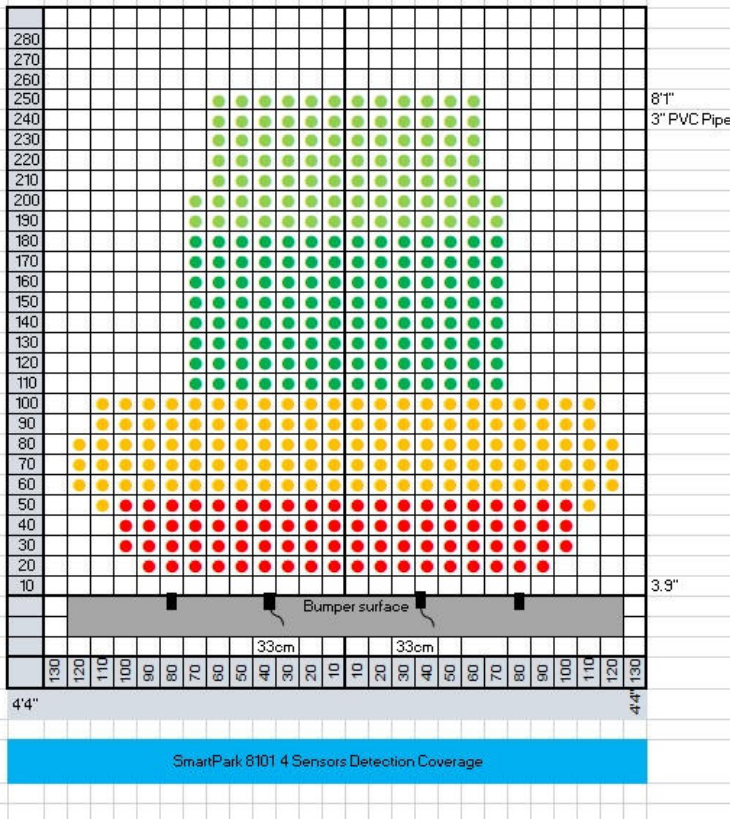
Smart Park 8101 Commercial Grade Obstacle Detection System For Commercial Vehicles

No.	Specification	NZA 8101	Benefit
A1 System Sensor Specs			
1	Sensor Type & Quantity	Digital Learning Sensor x 4	Digital = Faster Response & More Accurate
2	Sensor eye Angle	0° (Flat)	
3	Sensor Frequency	48K Hz	Longer Range
4	Input Voltage max.	80 Vp-p	
5	Horizontal Angle	100± 15°	
6	Vertical Angle	50± 10°	10% Wider Pattern
7	Wiring Harness	Leads connected to under truck mountable control module LCDisplay/LED Alarm/Mute cable run to cab.	Simpler/Cleaner installation
8	Working Temperature	-40°F ~ +176°F	
9	Waterproof Rating	IP68 - Designed for under vehicle mounting/installation	A true undervehicle sensing system.
10	Sensor Can Be Painted	Yes	
A2 Installation Kit			
1	Sensor Angle Ring Sleeve	NO - Not Required	Learning Capability Eliminates Ground Noise
2	Sensor Metal Bracket	4 mounting holes	Stronger Brackets for Heavy Duty Environments
3	Sensor Rubber Supporter	0° (Flat) - Recessed for Sensor Protection	Can be mounted W/ or Without Supporter.
4	Hole Saw	NO - Requires 13/16th Bit	US Standard Hole Sizes
5	Bracket Mounting Hardware	Included	Rust Proof Hardware Included
B Control Module Specs			
1	Reverse Trigger Voltage Input	DC12V - DC24V	Broader Vehicle installation Range
2	Operating Voltage	DC 9V ~ 32 VDC	Broader Vehicle installation Range
3	Alert Output	Buzzer / Display (Optional)	Max volume per OSHA regulations - 85dB
4	Max. Detection Range	8.9ft	Safer and More Accurate
5	Standard Detection Range	6' - 3" PVC Pole	Higher Detection / More Capable
6	Detection Alert Zones	4	
7	Blind Area (Near Bumper)	1"	Less Blind Spot
8	System Power Consumption	< 160mA / DC12V (with VCD)	
9	Rated Current (ECU)	28mA/12V, 18mA/24V	Longevity due to less heat
10	Main Harness Length	Power (Module to Reverse Trigger)- 9', Module to Buzzer/Mute - 33', Can be extended up to 66' More	More Adaptable and designed for easier and faster Heavy Truck Installation
11	Housing Material	PC+ABS & Nylon (front cover) Molded In Orange To Identify A Safety Component.	More Durable at all Environments
12	Housing Color	High Visibility Orange	Safety Equipment Flag
13	Working Temperature	-40°F ~ +176°F	
14	Storage Temperature	-40°F ~ +194°F	
15	Waterproof Rating	IP68	More Durable in all Environments
16	Reverse Beeper Alarm Output	Yes	Direct Interface
C Special Functionality Specs			
1	Modes Control	LED backlit Programming Button at Module (with multi color LED setting indication/confirmation)	Reversible Programming, no exposed wire or water entry points
2	System Mode	Rear or Front	Fully adaptable / 2 products in one
3	Detection Distance Mode	Programmable Option	Fully Adaptable
4	Detection Sensitivity Mode	Programmable Option	Fully Adaptable
5	Vertical Angle Adjustment	Programmable Option	Fully Adaptable
6	Learning Obstacle Capability	Yes	Installation Friendly
7	Mute Control Switch	Yes	Installation Friendly
8	Environment Learning	Yes (Learning Mode)	Installation Friendly
9	Harness Protection (Conv Tubing)	All harnesses	Installation Friendly

Manufactured and tested to Exceed US DOT requirements for safety products. Testing includes: Aging, Vibration/Shock, High/Low/Reverse Voltage, High/Low Temperature, Humidity, and IP Rating for Water/Dust Resistance.

* Comparison made with top selling products in the market as of 8/27/2021

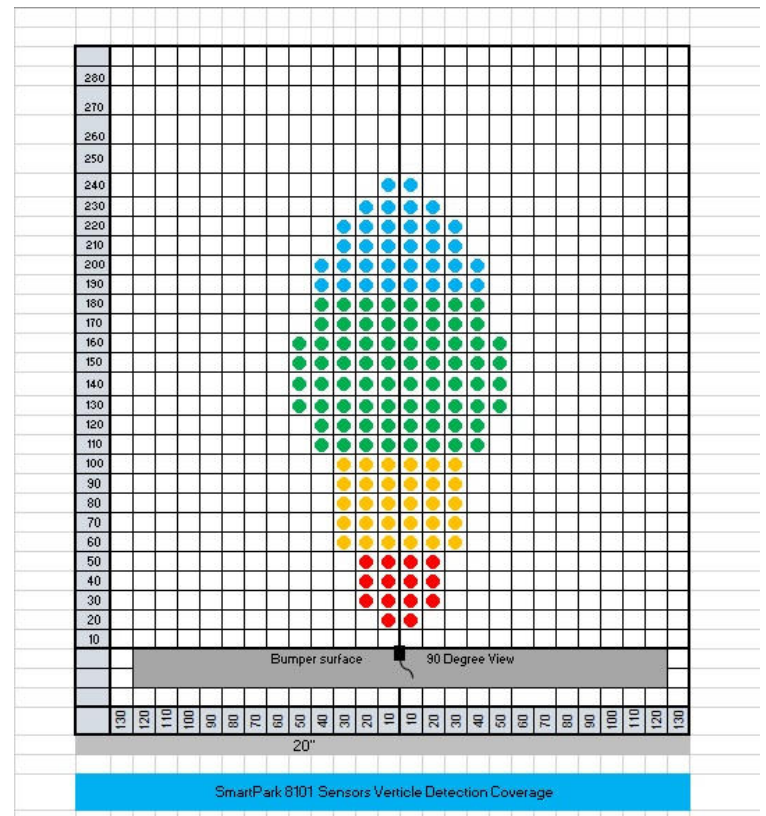
Technical Specifications: Detection Pattern Testing



Tested to exceed ISO 17386, "Transport information and controlsystems" — Manoeuvring Aids for Low Speed Operation (MALSO)

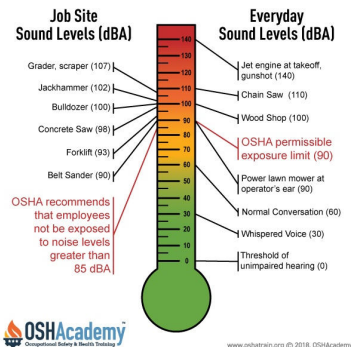
The test uses a 3" diameter PVC pipe. Each colored dot represents the placement of the 3" pipe.

Detection range of larger objects may be greater.



The test above shows the pattern when 4 sensors are spaced equally across the rear of the vehicle. A 3" PVC pipe is detected at 8.1 Feet

At Zorg we look at every aspect of safety. This includes ensuring that our products meet FMVSS, DOT, and OSHA work-place standards. From Obstacle Detection Range to the Volume of our Buzzer we provide the safety you need.



The test above shows a side view of the vertical detection pattern. The sensor has a vertical range of 40" allowing it to be mounted in a higher location as required on heavy vehicles