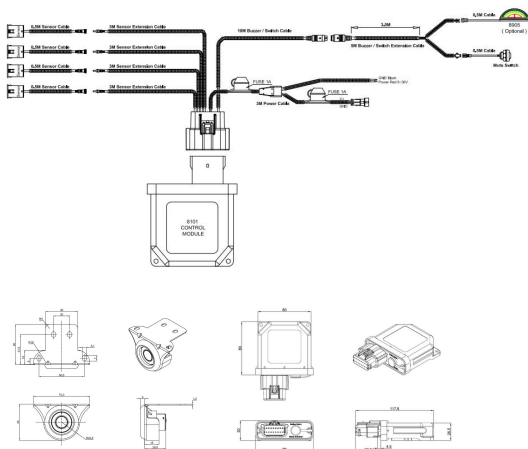


The 8101A Obstacle Detection System - Designed for commercial vehicles and now improved to work with lift gate and recessed bumper applications. The 8101A has been upgraded with the ability to be mounted in a recessed position up to 90cm forward of the rear of the truck.



Features

- | | |
|--|---|
| <ul style="list-style-type: none"> ● Extendable Cable for longer vehicle applications Up To 250cm ● Direct Connection for Reverse ● 115cm 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 | <ul style="list-style-type: none"> ● Waterproof / Shock Proof Control Module Rear or Front Operation ● Fixed Object Learning Capability ● Detection Range 2.8m Rear / 1.5m Front ● Waterproof / DustProof Sensors (4) ● Tri-Color LED Display with Buzzer Directly ● Connect a Backup Alarm* ● 3 Year Warranty |
|--|---|



*Optional Backup Alarm Available

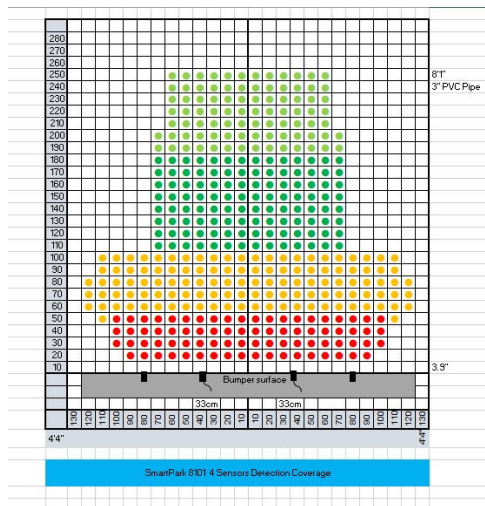


Smart Park 8101A Commercial Grade Obstacle Detection System For Commercial Vehicles

8101A Commercial Sensor System Specification

No.	Specification	8101A	Remark
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. Display/LED Alarm / Mute cable run to cab.	Simpler/Cleaner installation
8	Working Temperature	-40°C ~ +80°C	
9	Waterproof Rating	IP68 - Designed for under vehicle mounting/installation	A true under vehicle sensing system.
10	Sensor Can Be Painted	Yes	
A2	Installation Kit		
1	Sensor Angle Ring Sleeve	NO - Not Required	
2	Sensor Metal Bracket	4 mounting holes	
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	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)	
4	Max. Detection Range	2.8m	Safer and More Accurate
5	Standard Detection Range	70cm PVC Pole	Higher Detection / More Capable
6	Detection Alert Zones	4	
7	Blind Area (Near Bumper)	30cm	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 - 45', Can be extended up to 60' 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 in all Environments
12	Housing Colour	High Visibility Orange	Safety Equipment Flag
13	Working Temperature	-40°C ~ +80°C	
14	Storage Temperature	-40°C ~ +90°C	
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 colour 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	Offset Learning 0-36"	Programmable Option	Installation Friendly
10	Harness Protection (Conv Tubing)	All harnesses	Installation Friendly

Technical Specifications: Detection Pattern Testing

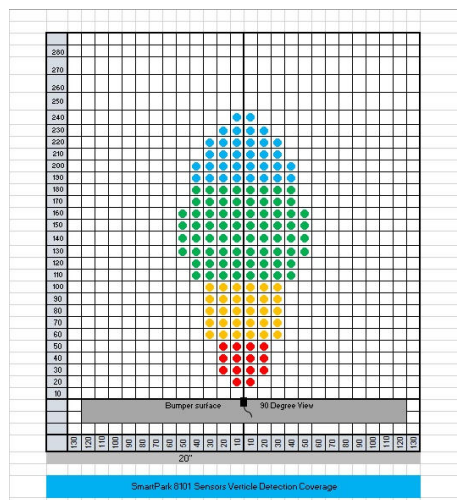


The test above shows the pattern when 4 sensors are mounted equally across the rear of the vehicle.

The test on the right shows a side view of the vertical detection pattern. The sensor has a vertical range of 100cm allowing it to be mounted in a higher location as required on heavy vehicles.

Test to exceed ISO 17386, "Transport information and control systems — Manoeuvring Aids for Low Speed Operation (MALSO)

✗ The test uses a 7mm diameter PVC pipe. Each colored dot represents the placement of the 7mm pipe. Detection range of larger objects may be greater.



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