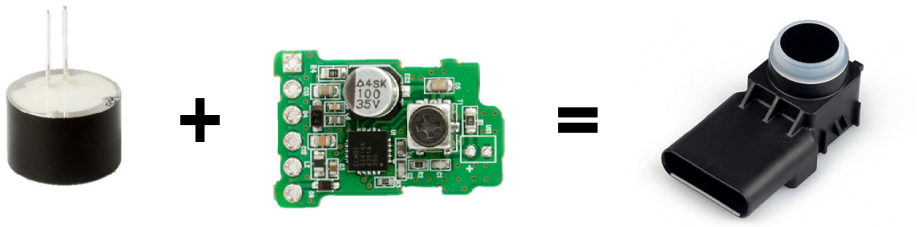
Competitive Strategies

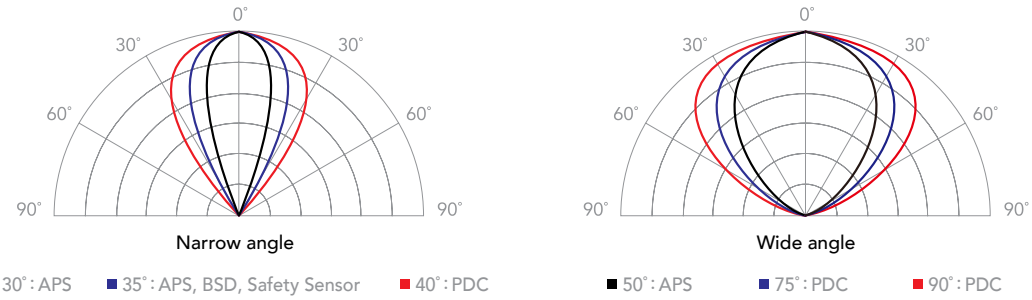
1. SPECIALIZED IN ON-DEMANDED SENSOR TRANSDUCER DEVELOPMENT AND MANUFACTURING

Vertical Integration From Transducer To Package/Module



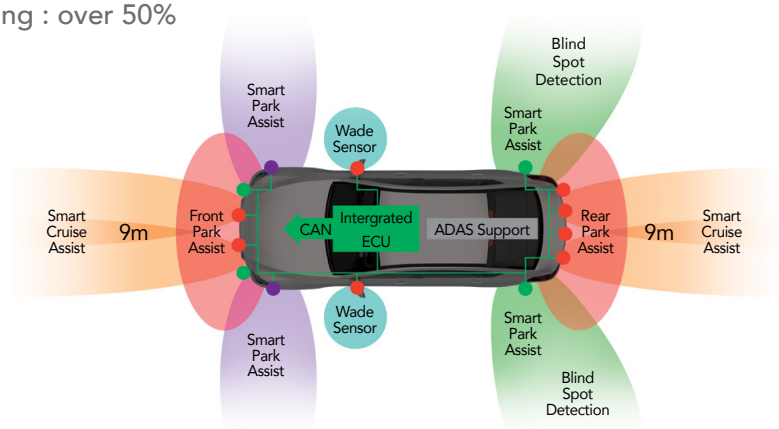
Ultrasonic Sensor Transducer | Advanced PCB design | Sensor Module (Customized Sensor Module)

Beam Angle



2. TOTAL SOLUTION

- Assist for Self-driving system + ADAS
- System cost saving : over 50%



Technical Development Road Map

- **4.5m Sensor**
- **6m Sensor**
- **9m Sensor**

2017 | 2018 | 2019 | 2020 | 2021 | FUTUER

- Park Distance Control(PDC)
  - G2-6S LIN & Stand alone type
- BUS/TRUCK/H.V. safety sensor
- Blind Spot Detection(BSD)
- Auto Parking Sensor(APS)
- Rear Occupant Alert Sensor(ROA)
- UREA Ultrasonic Sensor
- Integrated Control Unit for Autonomous vehicles
  -Easy Control for Autonomous Sensors
- Radar Sensor(BSD, Safety sensor for Heavy Eqipment)

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SENSORTEC
ULTRASONIC SENSOR TECHNOLOGY

SENSING THE FUTURE OF HUMAN BEING

SENSORTEC

ULTRASONIC SENSOR TECHNOLOGY

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SensorTec is
sensing the future of
Human beings

Company Profile

SensorTec is a company specialized in manufacturing & developing various kinds of sensors and applications by Piezo ceramic and we are ambitious & enthusiastic company with a variety of experiences in manufacturing & developing of Ultrasonic Sensors for more than a decade.

We will do the best for continuous development as a company specialized in Sensor development which provide sensors to customers with continuous technology development based on professional mind and Creative thinking. We promise that we will keep doing our best to satisfy customers demand such as developing new technology and stable production to meet ultrasonic sensors demand in the nearest future.

Sensortec R/D center

We, Sensortec Co., Ltd is a company specialized in sensor development which provide sensors to customers with continuous development by professional mind, Creative thinking.

Company History

- 2001 07. Established
- 12. Supplied Ultrasonic Sensor for Rear alarm system
- 2002 10. Established China factory, WEIHAI ST SENSORTEC
- **2006 05. Supplied Ultrasonic Transducer to Hyundai / Kia motors through Hyundai Mobis**
- 2007 12. Obtained SQ certificate, Hyundai/Kia motors [E&E]
- **2008 06. Supplied Ultrasonic Sensor for Robot Cleaner, LG electronics**
- 2013 05. Supplied Ultrasonic Sensor module for Parking guidance system
- 12. Supplied Ultrasonic Sensor for Smart Phone, Samsung electronics
- 12. Obtained SQ certificate, Hyundai/Kia motors [painting]
- **2014 09. Supplied Digital PDC in IKCO, Iran**
- 12. Developed Safety Sensor for heavy equipment [Doosan Infracore]
- **2015 03. Started mass-production 2nd Generation PDC for Mobis**
- **06. Started MP of safety sensor for heavy equipment, Doosan Infracore**
- **2016 12. Awarded for development and supply for PDC system from TATA motors**

HYUNDAI KIA MOTORS GM DOOSAN TATA IKCO IRAN KHODRO CO SAMSUNG LG

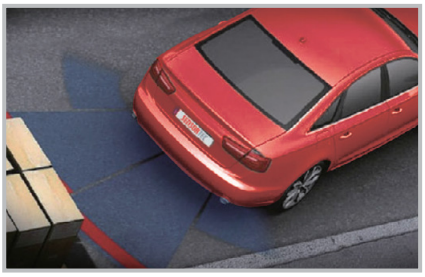
PDC sensor (Parking Distance Control)

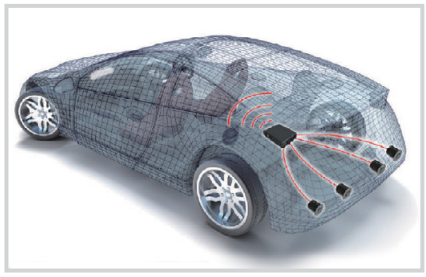
DESCRIPTION

PDC sensor measures the distance between your vehicle and obstacles, and alert you via an audible and visual signal. SensorTec Park Distance Control system aims to reduce accident rates and improve the daily driving experience.

FEATURES

1) Suitable for all types of vehicles including Passenger vehicle and commercial vehicle.
2) Cost effective solution without ECU
3) Fully TS 16949 compatible.





Technical Specification

Digital type PDC Sensor

Item	STP-308/338	STP-368L	STP-368B	STP-318/328
Communication	LIN compatible			
No of Pins	6	6	6	4
Sensor Diameter	14Φ	15.5Φ		
Distance (Max)	1.5m	1.5m	1.8m	1.5m
Directivity	100°(H), 40°(V)	90°(H), 40°(V)	90°(H), 40°(V)	100°(H), 40°(V)
Frequency	48KHz			
Remark	Stand Alone			with ECU

Analog type PDC Sensor

Item	STP-108/108D
Operating voltage	12.6V ± 3V
Power consumption	Max 0.9W
Operating temperature	-30˚C ~ 75˚C
Detecting distance	0.05m ~ 1.2m
Sound Pressure Level	Typ 80db ± 15db
Remark	Complete Box Kit
	For after-market sales

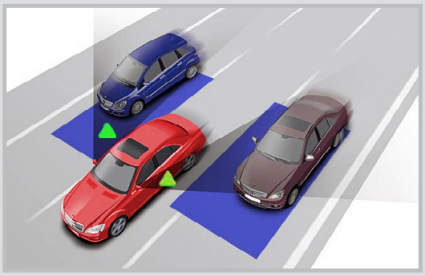
BSD sensor (Blind Spot Detection)

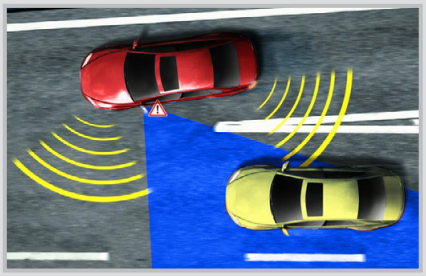
DESCRIPTION

BSD system assists drivers in driving safely by detecting and warning them of the presence of other vehicles in the blind spot area. It gives a visual, audible, and tactile alert to indicate that it's unsafe to merge or change lanes.

FEATURES

1) The Blind Spot Detection system by Ultrasonic Sensor. / Cost effectiveness.
2) BSD sensor can operate without BCM or ECU (6-pin sensor)
3) The 4 sensor system can distinguish the static objects. (ex. Guardrail, tree, wall..)
4) Multi functions applicable(useable) for PDC rear corner sensor. (STP-315)





Technical Specification

Item	STP-315	STP-319	STP-329
Communication	LIN compatible		
No of Pins	4	6	6
Sensor Diamter	15.5Φ	14Φ	14Φ
Distance	0.25~4m	0.25~4m	0.3~3.5m
Directivity	70°(H), 35°(V)	80°(H), 35°(V)	60°(H), 35°(V)
Frequency	52KHz		
Remark	8 ~ 16 VDC		

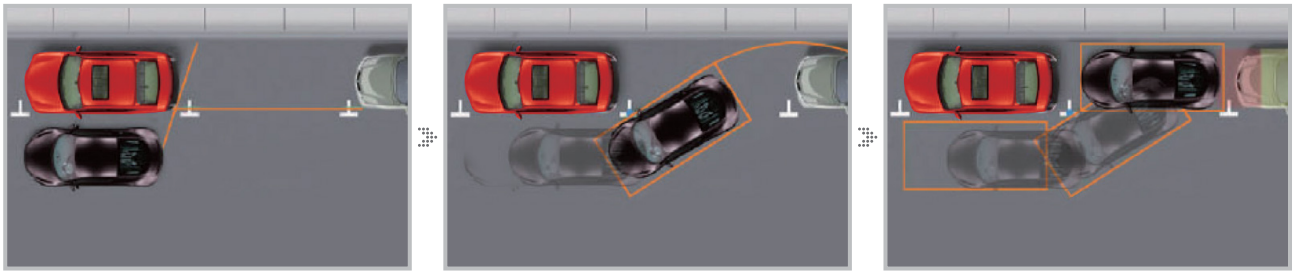
APS sensor (Autonomous Parking System)

DESCRIPTION

A driver assistance system that increases the ease of parking by automatically steering after ultrasonic sensors installed on the front, side, and rear of the vehicle sense an empty space for parking.

FEATURES

1) High performance APS sensor by hybrid sensor system.
2) Ultrasonic sensor can be combined with AVM camera system for the more reliable APS solution.
3) Long range unit sensor will cover CTA (Cross Traffic Alert) function.



Technical Specification

Item	STP-313
Communication	LIN compatible
No of Pins	4
Sensor Diameter	15.5Φ
Distance	0.25~4m
Directivity	55°(H), 35°(V)
Frequency	52KHz
Remark	8 ~ 16VDC

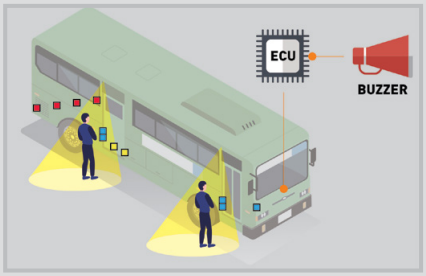
Safety Sensor

DESCRIPTION

Ultrasonic sensor detects hazards(humans and objects) inside the defined danger zones and actively alerts to the operator that a hazard is present. It also provides the operator with a proximity alert that identify the distance with a integrated passive camera/monitor system and offers an operator with a more complete safety solutions.

FEATURES

1) Filed test and operation completed by Korean heavy equipment maker.
2) Performance and reliability approved even in tough construction site
3) Lin output to easy connect infotainment system.



Technical Specification

Heavy Equipments

Item	STP-314	STP-608	STP-610
Communication	LIN compatible		
No of Pins	4	6	6
Sensor Diamter	15.5Φ	14Φ	14Φ
Distance	0.3~4m	0.3~2m	0.3~4m
Directivity	65°	100°(H), 40°(V)	80°
Frequency	58KHz	48KHz	45KHz
Remark	-	-	-

BUS(STP-800)

Item	Front-corner	Side	Rear
Communication	LIN compatible		
No of Pins	6		
Sensor Diamter	14Φ		
Distance	0.3~0.5m	0.3~0.85m	0.18~1.5m
Directivity	100°(H), 40°(V)		
Frequency	48KHz		
Remark	Detecting distance is adjustable by S/W		