

The NASA

LangleyEdge

NASA LANGLEY RESEARCH CENTER

NASA Langley Research Center is actively seeking partnerships and collaborations to commercialize its Child Presence Sensor technology.

The Market Opportunities

Every year, infants and small children die needlessly because they have been accidentally left in vehicles. Overloaded, exhausted, distracted or confused by a change in routine, working parents can completely forget that they've left their children unattended. Others may leave sleeping children in car seats while they exit their vehicles for what they believe will be a quick errand. Yet, left alone for only a few minutes, a small child can suffer a deadly heatstroke, even on a seemingly mild day.

The Child Presence Sensor technology can serve as a reminder to the caregiver that a child has been left unattended.

The Benefits

- Alerts the driver that a child remains in the car
- Requires no action by the user for proper functioning because of its "Install and Forget" approach
- Minimizes cost by making use of known technology
- Works with any new or existing vehicle or child safety seat
- Activates automatically and beeps when the child is placed in the car seat
- Provides an audible alarm which remains with the driver
- Is small, easy to use, and has a long battery life.

The Technology

A sensor switch triggers immediately when the child is placed in the seat and deactivates when the child is removed. The switch has a large activation area with a sensitivity of approximately eight ounces. The sensor,

Child Presence Sensor

A Safeguard for Children



fastened to the side of the car seat, detects weight once the child is placed in the seat and transmits a unique code to the driver-alarm module via a radio-frequency link. The alarm module, designed to attach to the driver's key ring, arms and disarms automatically. If the driver moves a predetermined distance away from the vehicle, the driver-alarm unit sounds an alarm. If the driver does not return to the vehicle, the alarm will beep continuously and will not turn off until the driver removes the child from the safety seat.

Additional Information

To discuss in detail how this technology can profit you and your business, please contact:

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