

What We Do

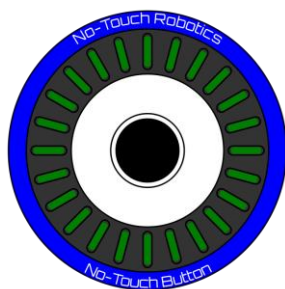
No-Touch Robotics is a pioneer in the development of grippers using acoustic levitation. The grippers use contactless sensing and manipulation. We respond to the COVID-19 outbreak in applying our know-how to the field of human interface devices for public transportation applications. Our proposal is to integrate commercially available ultrasonic distance sensors into housings of pushbuttons used by passengers. This eliminates the need for passengers to touch buttons and reduces the risk of infection.

The adaption effort of the transportation service provider is minimized by using compatible functions, housing dimensions and connector positions. Operators regain the capability to offer services such as halt on demand and can close wagon doors to save cost of climate control.

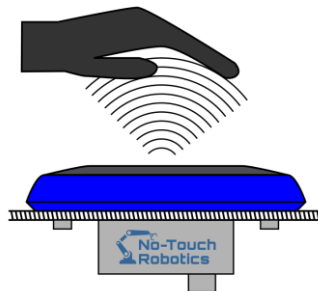
We bring this innovation to future-oriented transportation providers and support the fight against COVID-19.

Value Proposition

Contactless detection of movement



Top view



Side view



REDUCE HEALTH RISK

Reduce need for customers to touch surfaces.



SAVE TIME AND MONEY

Halt on demand is available and operation costs are reduced.



IMPROVE ENVIRONMENTAL FOOTPRINT

Reduce cooling and heating during extreme weather.

Advantages / USPs

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|--------------------|--|
| Easy Integration | <ul style="list-style-type: none"> • Retrofitting of existing vehicles due to compatible functions • Substitution of existing push buttons due to compatible housing and connectors • Design-in support/consulting provided |
| Fully customizable | <ul style="list-style-type: none"> • Customizable detection range • Gestures for activation can be defined |
| Ease of use | <ul style="list-style-type: none"> • Simple and intuitive use • Visual detection feedback • Audio features for visually impaired passengers possible |
| Versatile & Robust | <ul style="list-style-type: none"> • No moving parts • Ultrasonic sensor systems are proven in rugged and safety critical environments (e.g. automotive) |

Technology

Ultrasonic position sensing is a proven technology with applications across many industries. An interesting example is the use in the automotive industry where ultrasonic position sensors are used for self-parking cars. This shows that the technology is suitable for highly safety critical applications since autonomous parking requires fault free obstacle detection. Furthermore, the usability in rugged environment is shown since the sensors are usually mounted in the bumpers of the vehicles.