manage basic on/off control as well as to detect and interpret gestures like tapping and swiping for smart touchless human-machine interaction.

Another advantage of ST's ToF sensors is their linear response when measuring short distances, which allows them to be used inside dispensing machines to detect the level of hand-sanitizing liquid or the number of personal protective items such as face masks.

The full portfolio of **F**light**Sense™ ToF sensors** is in production now. Please contact your local ST office for pricing information and sample requests.

About STMicroelectronics

At ST, we are 46,000 creators and makers of semiconductor technologies mastering the semiconductor supply chain with state-of-the-art manufacturing facilities. An independent device manufacturer, we work with our 100,000 customers and thousands of partners to design and build products, solutions, and ecosystems that address their challenges and opportunities, and the need to support a more sustainable world. Our technologies enable smarter mobility, more efficient power and energy management, and the wide-scale deployment of the Internet of Things and 5G technology. Further information can be found at www.st.com.

STMicroelectronics Enables Innovative Social-Distancing Applications with FlightSense™ Time-of-Flight Proximity Sensors

- ❖ *Aura Aware demonstrates creative use of FlightSense™ technology in smart distance-awareness devices*
- ❖ *Ranging performance of Time-of-Flight sensor is unaffected by object color or reflectivity*
- ❖ *Gesture-detection capabilities unlock many more personal protection applications*

Geneva, DATE, 2020 – High-accuracy F**light**Sense™ proximity and ranging sensors from STMicroelectronics (NYSE: STM), a global semiconductor leader serving customers across the spectrum of electronics applications, are helping prevent disease transmission in innovative products developed by customers in response to the global pandemic situation.

Amsterdam-based startup Aura Aware is using ST's F**light**Sense Time-of-Flight (ToF) technology in a smart distance-awareness portable device suitable for use at retail counters and check-in desks. The easy-to-setup device displays a green OK signal that changes to red if a person crosses a safe minimum-distance threshold.

"*This innovative device from Aura Aware shows a highly creative use of our FlightSense technology. ST's ToF sensors can help protect our health in many ways, ensuring both social distancing and touchless interaction with all kinds of products that we use every day*," said David Maucotel, Business Line Director, Imaging, STMicroelectronics.

Aura Aware devices integrate ST's VL53L1X compact ToF sensor, which has an operating range of up to four meters and very low power consumption. Signal processing built into the sensor simplifies design and provides sophisticated features such as crosstalk compensation that maintains measurement accuracy even if the sensor window becomes obscured by foreign material.

Time-of-Flight sensors transmit photons and then calculate distance to the target based on the time it takes for the reflected photons to be received back by the sensor. Moreover, ranging accuracy is unaffected by surface characteristics of the target, such as clothing color or skin reflectivity, of the target, making F**light**Sense ideal for helping people to maintain social distancing.

The sensors can also help users avoid contact with surfaces, including self-service touchscreens, smart faucets, and push-button door openers, located in high-traffic areas. The speed and precision of ToF sensing enable F**light**Sense sensors to