

## **Non Touch Waste Flap (NTWF)**

The Non Touch Waste Flap (NTWF) is a new and innovative product for aircraft cabin interior, which has been developing in a joint project between Elektro-Metall Export GmbH (EME) and Schüschke Solid Surface GmbH.

Every passenger and crew member most probably dislikes touching the flap of the lavatory waste bin after having washed the hands to dispose the paper tissue. So do we and have hence been developing an automatic flap for lavatory waste bins, which makes future aircraft cleaner and ensures the comfort and well-being of the passengers and crews while aboard.

The NTWF is not only simple but also very reliable due to the relinquishment of an optical sensor and the use of standard aerospace components. The sensor of the waste flap is capacitive coupled to the passengers' hand and does therefore not interfere with other sources such as stray light or other disturbances. The speed how the flap opens or how long the flap stays open can arbitrarily be defined through the intelligent logic of the control unit.

The NTWF is not only specified to be failsafe in case the mechanic or electronic fails, but also to be retrofitted easily in plug-and-play manner.

In the meanwhile the NTWF has more than 2 Million cycles in test, the last 6 months onboard of a Lufthansa Airbus A340-600.

Positive feedback from passengers, crews and other people in the industry is overwhelming.

### **Benefit for the passenger/crew member**

Clean hands, lower risk of infection while onboard of an aircraft. Comfort and well-being for passengers

### **Benefit for aircraft industry/airline**

Cleaner, more hygienic aircraft. Passenger comfort.

### **Innovation**

Capacitive sensor (No distortion). Failsafe principle. Standard aerospace components. Possibility to retrofit through plug-and-play principle

### **Cost Benefit**

...just think how much SARS or swine flu cost the industry...

### **Facts**

Proved technology with more than 2 Million cycles. Successfully flight tested at two Lufthansa First Class lavatories onboard an Airbus A340-600

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