



LEONHARD KURZ subsidiary PolyIC has developed touch sensors for Preh volume control in the Audi A3

The challenge

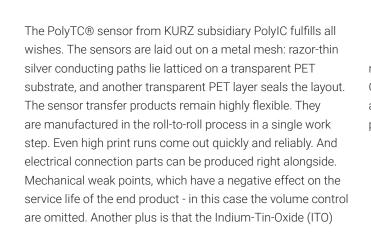
The requirements of the automotive industry are high for both interiors and exteriors. This was also the case for the volume control in the new Audi A3, model AU380. It was meant to not just blend into the classy, high quality design of the sedan, but also to function flawlessly. And of course, strict industry specifications had to be met. This required special sensor solutions.

The goal

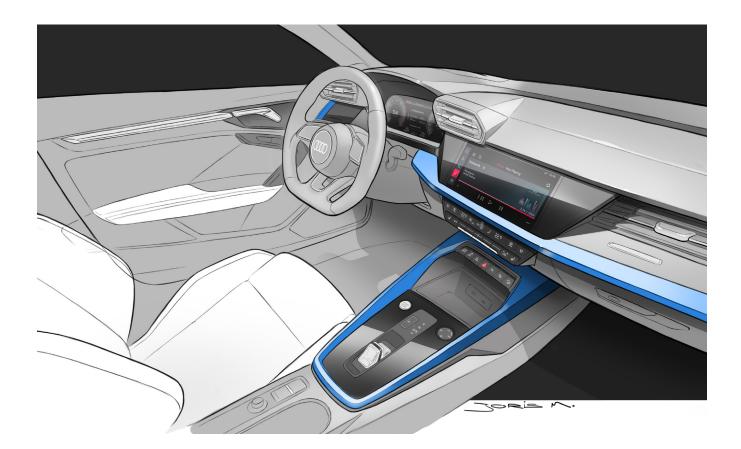
For its capacitive volume control, automotive supplier Preh sought a sensor manufacturer who met the VW standard and the standards of other premium manufacturers. Both driver and passenger were to be able to easily operate the controller, mechanically and by touch. Another requirement called for allowing a manufacturer complete freedom of design for whatever occurred to them, like backlighting, ambient lighting, and deadfront design, which does not reveal its functions until touched.



The solution



normally applied is replaced by the silver microstructure. Customers benefit from higher performing products, as well as from more cost-efficient, economical and sustainable processes than conventional solutions.



PolyIC: supplier of durable, conductive, transparent and secure sensors The five advantages of sensors from KURZ subsidiary PolyIC:

- Durability. The electrical connection piece (tail) is produced alongside the volume control. This means there is no seam between sensor and tail, which contributes to greater stability and service life of the controller
- Conductivity. The highly conductive silver metal mesh structure ensures that the sensors remain touch-active, even through thick materials
- Flexibility. The special structure of layers and the conductive structures make sensors very flexible, so they smoothly adapt to curved geometries as well

- Transparency. The substrate material and the metal mesh structure are selected to meet the customer's specific appearance requirements
- Safety. ESD (Electronic Static Discharge) requirements can be set to customer specifications using particular structures of layers

PolyTC® sensors meet the high requirements of the VW standard and other premium manufacturers. Extensive testing has borne this out, and they are eminently qualified for automobile mass production.

Why KURZ is the right technology partner

- KURZ continuously develops its solutions
- The PolyTC® sensors are made in Germany
- PolyTC® sensors facilitate transparent or semi-transparent (translucent) touch applications
- Roll-to-roll manufacture facilitates the production of higher runs in consistently high quality
- Even small runs can be realized at the price advantage of large runs

Conclusion

PolyTC® sensors have proven themselves in many applications. Their metal mesh structure and transparent substrate material makes them suitable for complex geometries as well. Long service life, proper function, and good looks make these touch sensors the go-to choice for automobile mass production.

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