



Success Story Keypads

Safely seated at high speed – functional switch unit for individual seat adjustment

Just press the button and the car seat adjusts itself to suit the individual driver. Automatic seat adjustment is convenient and makes driving safer. The right switch makes it possible to carry out adjustments even during the journey. Elektrosil has developed a switch unit including housing for an automotive component supplier's sports seats.

► The challenge

A seat manufacturer asked Elektrosil to design a control solution for providing perfect adjustment of the car seat for the back and at the sides to suit the occupant's body size in the new generation of a sports coupé. The system had to match the seat design, be easy to use, sustainable and comply with environmental requirements. Development and production had to be cost-effective.

► The solution

Elektrosil's keypad team advised the customer on the choice of a suitable circuit. A printed circuit board with connector, a silicone membrane and plastic caps were the components used. In order to implement the design specifications in the best possible way, the engineers called upon the services of a specialist designer and developed a plastic housing with four switching elements in line.

The switch frame simultaneously served as the system carrier. The Elektrosil team carried out minor ergonomic adjustments following customer testing. The designers also devised the switch for low current and voltage and increased its life with an anti-wear coating on the caps. The composition of the materials used was determined for the purpose of statutory recycling and entered in the IMDS database.

► Advantages and benefits

The switch ideally complements an innovative sports seat which will enable the client to position himself impressively in the automobile component suppliers' market segment. Development, design and arrangement by Elektrosil have proved to be comparatively cost-effective overall. In addition, fixed frame agreements, which were advantageous for the customer, were agreed for the supply of the switch unit.

Project information

- Client: Automobile seat manufacturer
- Sector: Automotive
- Ongoing project.
Duration until change of model

Elektrosil's services

- Application advice, development supervision, design-in support
- Quality Assurance
- Engineering and production
- Completely customised applications



“A seat adjustment switch –
ergonomic and matching the car design.
That’s when I called Elektrosil.”

Thanks to a powerful combination of automotive experience and design know-how, Elektrosil has developed an ideally matched switch solution for seats which will keep drivers down-to-earth even at sporting speeds.

Are you looking for the right product for your application and need a development partner? Then give us a call.

+ Elektrosil’s strengths

The switch could only be implemented with in-depth automotive experience and outstanding expertise in construction and printed circuit board design. Elektrosil’s designers called upon a competent manufacturer in Asia to undertake the production. The team excelled itself with its flexibility, the rapid processing of the customer’s wishes, and the provision of support for the client regarding the time-consuming compliance with the vehicle manufacturer’s corporate identity requirements.



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