
MARQUARDT IN THE AUTOMOBILE:

SWITCHING MEANS MOVING



DRIVE AUTHORIZATION SYSTEMS



Electronic drive authorization systems made by Marquardt: A pioneering performance as far as safety and comfort are concerned. It is a field where, due to the high R & D investments in the last few years, we have developed into a system supplier for all major components.

The perfect interaction of electronic keys and electronic ignition starter switches is the core of the Marquardt concept. It ensures utmost cryptological security and enables us to inte-

grate a great number of checking and operating functions in the electronic key. Full information on the automobile condition, discreet recognition of the drive authorization, bus-supported communication on a uniform data basis with all relevant vehicle components: Marquardt shows the way to go.

The Keyless system from Marquardt offers maximum comfort for all classes of vehicle - vehicle access and starting without active use of the key. The 20 kHz technology which we have developed ourselves gets by with far fewer antennas than previously common solutions and offers optimum application possibilities by design-neutral installation with small dimensions.



♦ Electronic keys



♦ Electronic ignition starter switches



♦ Keyless antennas, door handle sensors and control devices



♦ Electronic steering locks

CONTROL PANELS AND PANEL SWITCHES



Appearance and operation: tactiles and optics of control panels and panel switches are today more important than ever. We, the Marquardt Group, are involved in the development of optimal solutions already in the design phase.

Marquardt offers numerous control solutions for the various control concepts: rocker switches, push-push switches, rotary and slide switches which can be combined to attractive and user-friendly control panels. According to the electronic structures of the respective automobile the control panels can be equipped with CAN or LIN bus systems or simply with voltage coding.

In order to meet the special requirements in trucks, plus equip a vehicle individually and house the control of the various functions at various places, the switch bus system Maxis was developed. With this system it is easy to position the switches in the automobile according to the customer's wishes. The respective switch can be universally used in the automobile via its code and assume its programmed function. Thus this system allows us to realize 126 addressable switches.



SWITCHES AND MODULES



Not only the visible switches in the cockpit and automobile interior define the comfort and value of an automobile. The numerous invisible components that are concealed in a modern automobile also contribute quite considerably to comfort and safety. Quite a few come from Marquardt - especially modules for various applications such as positioning elements in electric convertible roofs, door locking systems, hood locks and seats.

development and manufacturing has a positive effect on the quality of the whole module. Just in time-production processes and efficient logistic systems ensure that switches and modules from our company always arrive ready to be assembled at our customers - without any ifs, ands, or buts.

Functions which, activated via panel switches, are also controlled via integrated switches. Here the experience we made over decades of



INCREASING THE COMFORT MEANS

IMPROVING THE SAFETY



Only relaxed drivers are content and good drivers. This is made possible to a very large extent by panel switches and other electronically operated automobile components.

Modern design, clear optics, pleasant switch feel, clear indication of the switching status under different lighting conditions, reliable function over the whole life cycle of the vehicle: the demands on the individual switches or comple-

te modules and switching systems are more complex than you would think.

From the very beginning Marquardt as a system supplier is involved in the development of new vehicle models - in all aspects from the design and surface finish to electronics and mechanics. Thanks to our highly developed competence, we can quickly implement the latest innovations in perfect quality.



THE MARQUARDT GROUP

GERMANY

Marquardt GmbH
Schloss-Str. 16
78604 Rietheim-Weilheim
Phone ++49 (74 24) 99-0
Fax ++49 (74 24) 99-23 99
www.marquardt.de
marquardt@marquardt.de

Marquardt GmbH
Plant Böttingen
Spaichinger Weg 1
78583 Böttingen
Phone ++49 (74 29) 94 03-0
Fax ++49 (74 24) 94 03-260
www.marquardt.de
marquardt@marquardt.de

Hans Koch GmbH & Co. KG, Trossingen

SWITZERLAND

Marquardt Verwaltungs-GmbH
Zweigniederlassung Schaffhausen
Ernst Müller-Str.7
Postfach 952
CH-8201 Schaffhausen
Phone ++41 (52) - 644 30 00
Fax ++41 (52) - 644 30 60
www.marquardt.ch
marquardt@marquardt.ch

FRANCE

Marquardt France S.A.R.L.
520, avenue Blaise Pascal - Lot n° 4
77557 Moissy Cramayel Cedex
Phone ++33 (1) 64 13 60 70
Fax ++33 (1) 64 13 60 71
info@marquardt.fr

ROMANIA

Marquardt Schaltsysteme S.C.S.
Industriegebiet West
550159 Sibiu
Phone +40 (269) 50 17 00
Fax +40 (269) 50 17 06
marquardt@marquardt-ro.com

USA

Marquardt Switches Inc.
2711 Route 20 East
Cazenovia, NY 13035-0465
Phone ++1 (3 15) 6 55 80 50
Fax ++1 (3 15) 6 55 80 42
www.switches.com
info@marqswitch.com

Marquardt Switches Inc.
Automotive Products Group
1224 Centre Road
Auburn Hills, MI 48326
Phone ++1 (2 48) 3 77 31 01
Fax ++1 (2 48) 3 77 31 09
www.switches.com
info@marqswitch.com

TUNISIA

S.A.E.E.
104 Avenue de l'U.M.A.
2036 La Soukra, Tunis
Phone ++216 (71) 865 265
Fax ++216 (71) 865 420
saee.marquardt@marquardt-tn.com

CHINA

Marquardt Switches (Shanghai) Co., Ltd.
No. 650 Qingda Road
Heqing Industrial Zone
Shanghai (Pudong) 20 12 01
Phone ++86 (21) 58 97 33 02
Fax ++86 (21) 58 97 23 99
www.marquardt.com.cn
mcsch@marquardt.com.cn

INDIA

RGK Controls & Components Pte. Ltd.
21, Govt. Industrial Estate
Kandivali (West) - Mumbai 400 067
Phone ++91 (22) 8 68 45 19
Fax ++91 (22) 8 68 85 10
www.rgkswitches.com
sales@rgkswitches.com

PRODUCT RANGE

SWITCHES AND SWITCHING SYSTEMS FOR AUTOMOBILES

Rocker, toggle and push button switches, bus-capable switches, multifunctional switches, control panels, control devices, electronic keys, electronic ignition starter switches, Keyless-systems, electronic steering locks, gear switches

POWER TOOL SWITCHES

Mechanical and electronic switches and switching systems for DC and AC electrical power tools

APPLIANCE SWITCHES

Rocker switches, toggle switches, slide switches, push button switches, rotary multistep switches, foot switches and pilot lights

SNAP ACTION SWITCHES

Open, enclosed and bistable snap action switches, open leaf switches, snap action switches with dust and splash water protection

SENSORS AND SYSTEM SOLUTIONS

Flow sensors, turbidity sensors, displacement sensors, pressure sensors, automatic control systems
