

SWITCHES, SYSTEMS, CUSTOMIZED SOLUTIONS

➤ TRUCKS



MARQUARDT



➤ WHERE A WIDE STANDARD PROGRAM ENSURES COST AND FUNCTIONAL EFFICIENCY.



Rocker switch 1838/1930

- ➔ With dust and water protection IP 67
- ➔ High currents up to 16 A
- ➔ Mechanical life of more than 1 million switching cycles
- ➔ Wide variety

Rocker switch 3250

- ➔ Reliable, self-cleaning snap-action switching system
- ➔ With dust and water protection IP 66/IP 68 (on demand also from terminal side)
- ➔ Wide variety
- ➔ Up to four built-in LEDs
- ➔ Wide range of accessories
- ➔ Individual rocker design possible



LIN-rocker switch 3270

- ➔ With LIN-interface
- ➔ Installation compatible to series 3250
- ➔ Dust and water protection IP 69K frontside
- ➔ Wide variety
- ➔ Up to four built-in LEDs
- ➔ Wide range of accessories
- ➔ Individual rocker design possible



Snap-action switch 1045

Micro-signal switch 1065

- ➔ With dust and water protection IP 67
- ➔ Built-in separating aid to prevent contact welding (optionally)
- ➔ Possible with cable assembly
- ➔ Versions with center off position (1065)
- ➔ Diagnostic capability (1065)
- ➔ Wide rating range (1045)

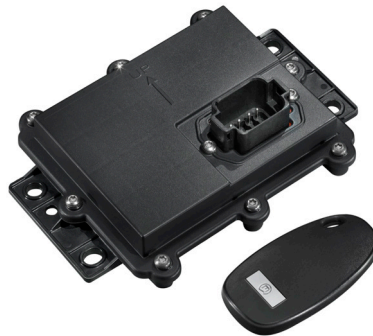




➤ BECAUSE INTELLIGENT SOLUTIONS OFFER MAXIMUM CUSTOMER BENEFIT.

BLE Gateway and FOB 3559

- ➔ Consisting of BLE Gateway with CAN J1939 interface and BLE FOB
- ➔ With dust and water protection IP 67
- ➔ Range up to 50 m
- ➔ Also suitable for retrofit
- ➔ Standard two inputs and one output



Keypad 3584

- ➔ 2x3 buttons with CAN J1939 interface
- ➔ With dust and water protection IP 67
- ➔ Up to three functional illuminations per button



Central control panel 3583

- ➔ With CAN J1939 interface
- ➔ Design and functional range can be customized
- ➔ Jog dial with four-way tilt function
- ➔ With dust and water protection IP 67
- ➔ Six buttons for quick access
- ➔ Touch function in the jog dial with character recognition (optional)
- ➔ RGB lighting (optional)

LIN switch module 3320 / 3245

- ➔ Switch inserts freely configurable
- ➔ Toolless installation and removal
- ➔ Requires only one LIN node
- ➔ Versatile lighting options
- ➔ Various switching variants



Red-green-blue (RGB) lighting system

- ➔ Possible for different areas in the vehicle:
 - seat, door sill, glove compartment
 - ceiling, reading lamp
 - rear light
 - ambient light
- ➔ LIN node for controlling the colour, intensity and calibration of the RGB LED



➤ WHEN INDIVIDUAL PRODUCTS REQUIRE SPECIAL EXPERIENCE.



Steering wheel switch

- ➔ Various switching systems and haptic solutions
- ➔ Low installation depth sufficient
- ➔ Sensor systems can be integrated
- ➔ Long lifetime and stability
- ➔ With dust and water protection

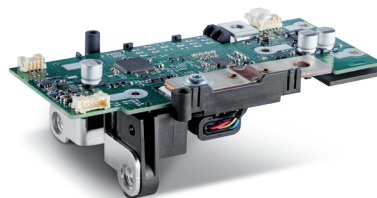


Control panels

- ➔ Solution specially optimized for the application
- ➔ Electronic interfaces: LIN, CAN, discrete
- ➔ Different operating concepts
- ➔ Various surfaces possible
- ➔ Customized design
- ➔ Value and haptics suitable for the vehicle

Drive authorization system

- ➔ Complete systems incl. antenna and electronic steering column lock
- ➔ Customer-specific key design; also possible with display
- ➔ Highly integrated electronics with self-developed ASICs
- ➔ Marquardt 20 kHz-PSK-LF system with excellent interference immunity, proven over many years of use
- ➔ Innovative RF multichannel technology
- ➔ Fully integrated 3D transponder with 10 cm wide-range function



Batteries and subsystems for electric mobility

- ➔ Battery management systems for 12V, 48V and high voltage applications
- ➔ Different cell types can be used
- ➔ Suitable for various bus systems (CAN, LIN)
- ➔ Integration of AUTOSAR standard software and customer software modules
- ➔ Functional safety up to ASIL-D

BECAUSE CUTTING-EDGE TECHNOLOGY IS BASED ON KNOWLEDGE AND INGENUITY.

The Marquardt Group was established in 1925 and, in spite of becoming a Global Player, has remained an independent family enterprise. With its two product areas – Automotive and Switches, Sensors & Controls, the Marquardt Group of companies is active all over the world in all the important markets. We have offices at 20 locations with more than 11,000 employees in all.

Every year, we invest more than ten percent of our turnover in research and development – not to mention the use of modern development tools, simultaneous engineering and an efficient testing system. Moreover, our corporate culture offers ample scope for unfolding the inventive genius of our employees. As a result, new ideas come up time and again, which are materialized into marketable cutting-edge technologies.

The Switches, Sensors & Controls division develops, produces and sells its products in a number of industries and applications. Apart from industrial applications, our products are used in power tools, household appliances, cleaning systems, drive technology, heating and air-conditioning technology as well as off-road vehicles. We have the necessary technical know-how, innovative strength, long-term experience and comprehensive manufacturing expertise required in these fields.

This yields innovative and reliable products that feature promising designs tuned to individual requirements. Our products range from the standard switch to complex customer-specific systems. They are suitable for small-scale and large-scale production. With distinct production engineering, worldwide manufacturing options, high quality standards and durability of our products, we achieve customer satisfaction and thereby ensure our competitive ability.

These customer- and market-specific solutions have made Marquardt a strong partner of the power tool and electrical industry as well as a technology leader. We are at your service in all the international markets.

For over 15 years, Marquardt has been a leading global supplier to well-known truck manufacturers. Reliability, durability and user-friendliness are essential requirements that must be fulfilled to the highest standards. Marquardt therefore offers both standard and customized solutions for various truck applications to fulfill the requirements of the market. We have many years of experience in the development and production of drive authorization systems and operating components. In addition, Marquardt is already involved in the development of optimal solutions during the design process. This ensures that we always supply the latest cutting-edge technology.

