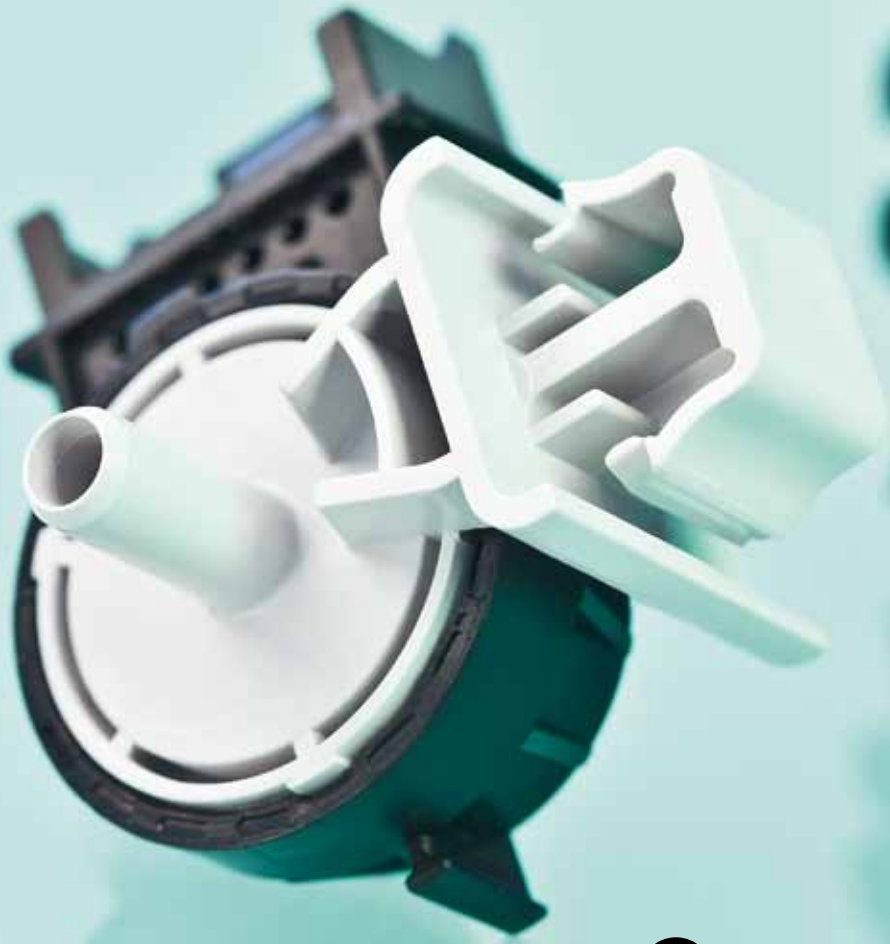




# MARQUARDT INNOVATIONS

➤ SOLUTIONS FOR HOUSEHOLD APPLIANCES



MARQUARDT



➤ WHERE HAPTICS AND SHORT SHIFTING TRAVELS INCREASE THE OPERATING COMFORT.

**Master switch 1682**

- ➔ Space-saving installation behind PCB
- ➔ High rating up to 12 (8) A 250 V AC
- ➔ Double lifting contact system
- ➔ Materials conforming to IEC 60335



**ECO switch program 1086/1550**

- ➔ Rocker switch and push-button switch
- ➔ Automatic cut-off by an external signal (remote-off or auto-off)
- ➔ Prevention of stand-by losses as per the EU directive
- ➔ Safe cut-off due to galvanic separation
- ➔ Rated for currents up to 16 A
- ➔ Versions with intelligent current detection



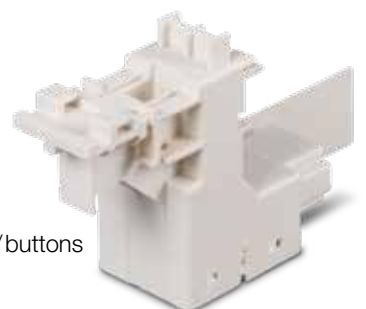
**Main switch 1692**

- ➔ Integration in the appliance door or screen
- ➔ Compact size
- ➔ Inrush currents up to 120 A
- ➔ 2.5 snap-in connections
- ➔ Materials conforming to IEC 60335



**Grounding switch 2018**

- ➔ Compact design
- ➔ Bracket for cable routing
- ➔ Rating up to 8 (4) A 250 V AC
- ➔ Materials conforming to IEC 60335



**Main switch 1693**

- ➔ Compact design
- ➔ Rating up to 6 (2) A 250 V AC
- ➔ Tolerance compensation for control keys/buttons
- ➔ Materials conforming to IEC 60335



## ➤ SENSORS



## ➤ BECAUSE INNOVATIVE SENSORS ENSURE ENERGY EFFICIENCY AND SAFETY.

### Turbidity sensor 2064

- ➔ Optionally with built-in signal processing
- ➔ Less contamination due to streamlined design
- ➔ Large measurement range



### Level sensor 2063

- ➔ Compact design
- ➔ Exact level measurement
- ➔ 2.5 snap-in connection



### Flow sensor 2061

- ➔ Robust flywheel principle
- ➔ Large measurement range
- ➔ Excellent linearity

### Pressure sensor SINUS

- ➔ Built-in temperature compensation
- ➔ Customer-specific programmable characteristics
- ➔ Three programmable switching outputs
- ➔ Outputs: Frequency, analog, PWM



### 3D sensor 2062

- ➔ Contact-free magnetic path measuring sensor
- ➔ Simultaneous recording of three spatial directions
- ➔ Precise measurement of load and unbalance

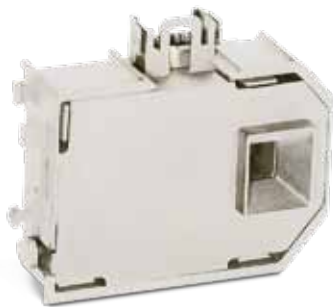




➤ **BECAUSE INTELLIGENT SOLUTIONS HAVE A HIGH-VALUE APPEAL AND OFFER MORE COMFORT.**

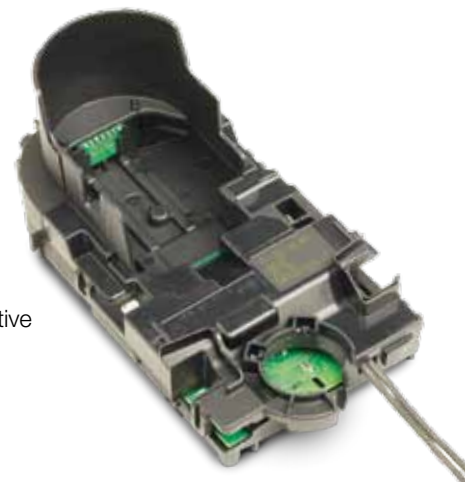
**Magnetic door lock 2060**

- ➔ Load contacts up to 16 A 250 V AC
- ➔ Mechanical emergency release
- ➔ Materials conforming to IEC 60335



**Control and regulation electronics 2078**

- ➔ Compact electronic unit for electrical appliances
- ➔ Prevention of stand-by losses as per the EU directive
- ➔ Built-in remote-off switch for electrical switch-off
- ➔ Built-in software programming interface
- ➔ Display of the device status with LED
- ➔ Design for optimum end assembly processes



**Drum illumination system 2067**

- ➔ Double insulation and material as per IEC 60335
- ➔ Attractive lighting with 90 lm LED
- ➔ Compact design
- ➔ Installation in bellows



**Refrigerator lighting system 2067**

- ➔ Flat assembly in the side wall of the appliance
- ➔ Uniform attractive lighting
- ➔ Up to eight replaceable LEDs



# 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 business 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 11 locations with more than 6,000 employees in all.

Every year, we invest more than seven 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.

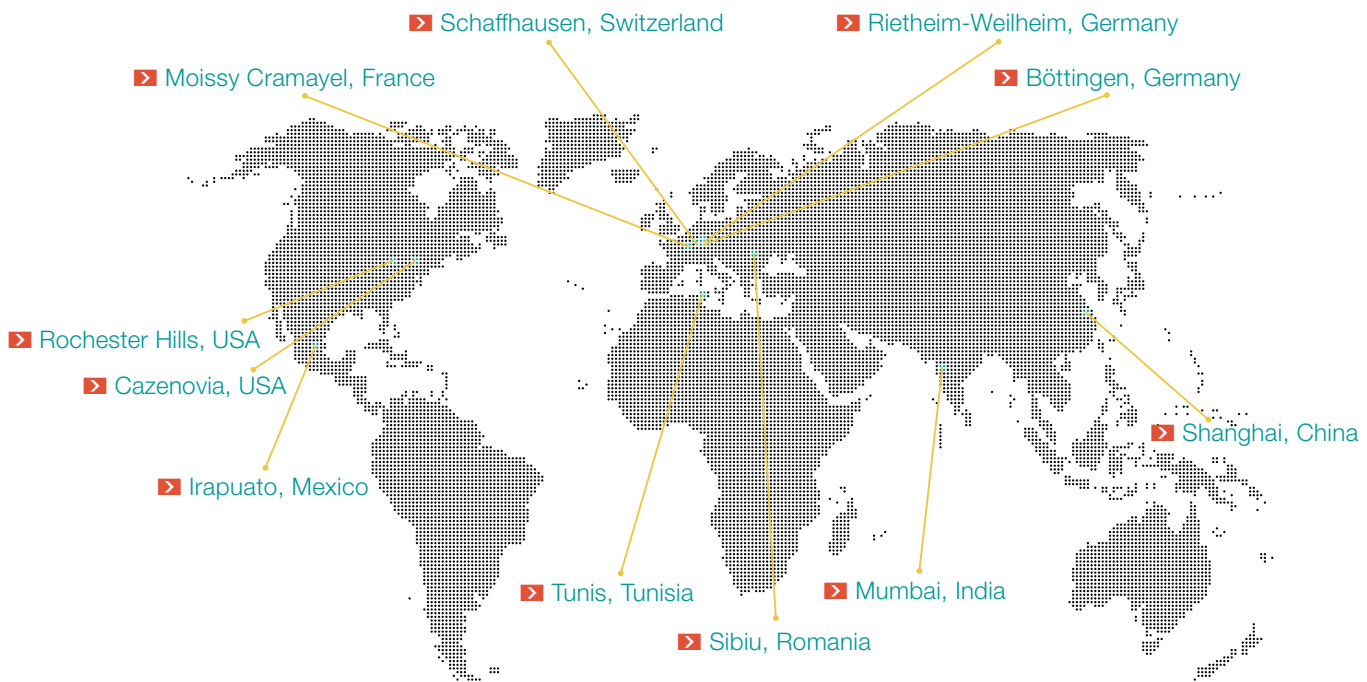
These customer- and market-specific solutions have made Marquardt a strong partner of the power tool and electrical industry as well as a technology leader. We are at your service in all the international markets.

Household appliances are part of a highly competitive market. The buying decision of customers are based on criteria like technical features and the high-value appeal of a device, which again is determined by design, haptics and user-friendliness.

Marquardt guarantees technologically innovative control elements for the electrical appliance industry, appealing switching characteristics, high switching reliability and durability. The Marquardt sensors ensure the best technical value and our intelligent sensor solutions work economically, save resources and reduce costs for the user.

Attractive switch solutions, state-of-the-art sensors and complex systems from a proven partner – no wonder that Marquardt has become the preferred choice of brand manufacturers.

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