



MARQUARDT INNOVATIONS

➤ SOLUTIONS FOR CLEANING AND DRIVE APPLICATIONS



➤ **WHERE A BROAD STANDARD PROGRAM ENSURES COST EFFICIENCY AND FUNCTIONAL EFFECTIVENESS.**

Push-button switch 1680/1683

- ➔ Extremely high motor rating up to (16) A 250 V AC
- ➔ Behind PCB designs available
- ➔ Tinned PCB terminals
- ➔ Dust and water protection IP 67



Rocker switch 1800/1881

- ➔ Dust and water protection IP 51
- ➔ Rating up to 8 (8) A 250 V AC; 15 A as per UL
- ➔ Protection against water overflow (VDE 700 part 15)
- ➔ Low depth



Rocker switch 1930

- ➔ Non-detachable 2-component sealing
- ➔ Dust and water protection IP 65
- ➔ Different switching functions available
- ➔ Designs for DC and 400 V AC available



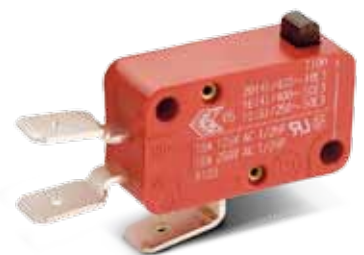
Snap-action switch 1050

- ➔ Versions with large overtravel
- ➔ Also available with increased difference travel
- ➔ Optional mushroom-shaped push-button
- ➔ Rating up to 10 (1.5) A 250 V AC



Snap-action switch 1005

- ➔ Extremely high motor rating up to (16) A 250 V AC
- ➔ Contact distances less and greater than 3 mm
- ➔ Design with side bearing connections
- ➔ Extremely high rating for DC loads



➤ SENSORS AND MODULES



➤ BECAUSE INDIVIDUAL SOLUTIONS REQUIRE SPECIAL EXPERIENCE.



Control and regulating electronics

- Customer-specific electronics
- For AC and DC motors
- With and without electronic commutation



Pressure sensor 2066

- Analog output signal
- Robust and simple design
- Linear measuring range 0 – 4.5 bar / 450 kPa / 65 psi
- Plug-in and screw-type flange versions



Pressure sensor SINUS

- Different measuring ranges (0-0.03 bar / 0-0.2 bar)
- Customer-specific programmable characteristics
- Three programmable switching outputs



Customer-specific adaptations

- Designs adapted as per the corresponding installation on the basis of our comprehensive standard switch program



Control panels

- With and without electronics



➤ **BECAUSE INNOVATIVE DRIVE TECHNOLOGY REQUIRES RELIABLE COMPONENTS.**

Snap-action switch 1022/1055

- ➔ Slim and compact designs
- ➔ Dust and water protection IP 67
- ➔ Large overtravel
- ➔ Designs with ENEC approval permit for 250 V AC



Snap-action switch 1045/1050

- ➔ Dust and water protection IP 67
- ➔ Designs with internal separating aid
- ➔ Rating up to 10 (3) A 250 V AC
- ➔ Versions for DC signal currents

Rocker switch 1830/1930

- ➔ Designs with dust and water protection IP 65
- ➔ Multiple switching functions available
- ➔ Design variations available
- ➔ High rating spectrum



Micro-signal switch 1065

- ➔ Noiseless switching system
- ➔ Redundant contacting
- ➔ Diagnosis capable design versions available
- ➔ Design with middle position (3 different switching states)
- ➔ Dust and water protection IP 67



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.

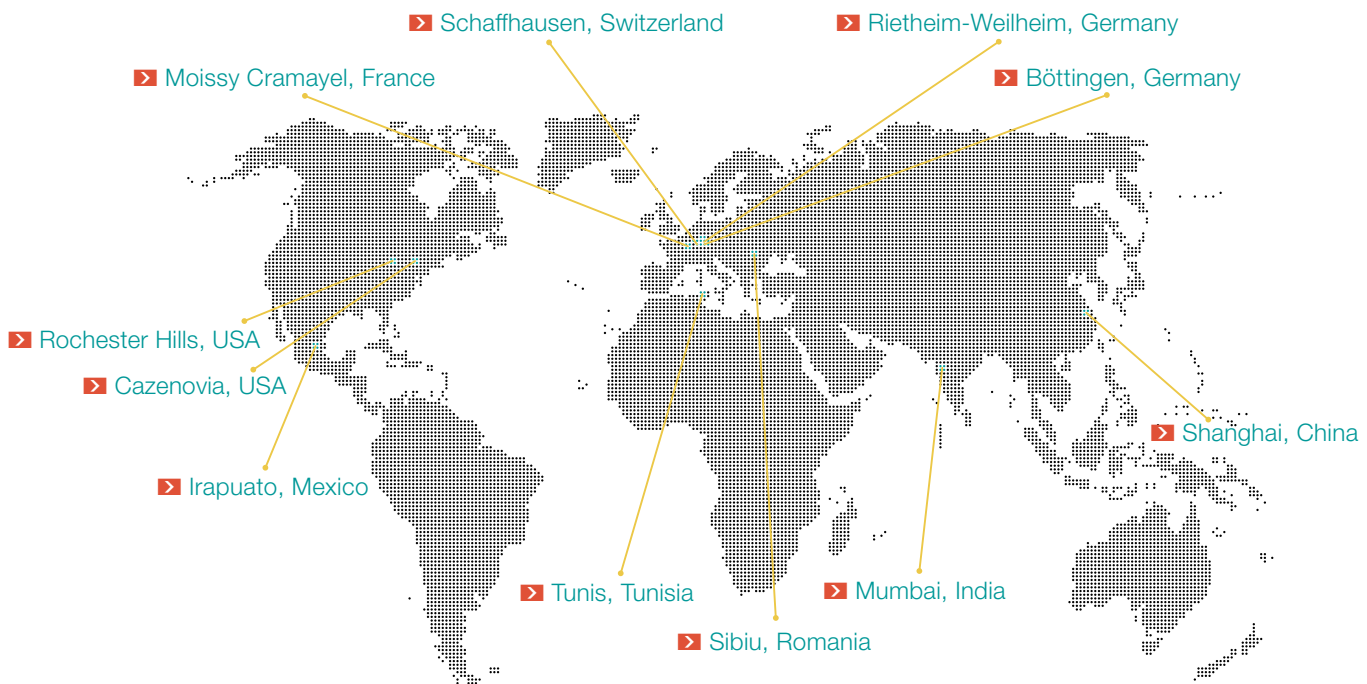
These customer- and market-specific solutions have made Marquardt a strong partner of the power tool and electrical industry as well as a technology leader. We are at your service in all the international markets.

The market for cleaning and drive technology makes the highest demands on the flexibility, technical competence and competitive ability of its suppliers.

In order to meet these high and varied demands, Marquardt maintains an extensive program of standard switches, which is supplemented and constantly extended with a number of new developments. At the same time, we develop tailor-made solutions together with our customers, ranging from innovative sensors to control panels right up to complex control and regulating electronics.

Our products are the result of a decade-long dialog with our customers and include the expectations of end users with respect to the functionality and high-value appeal. Our motivation and work is based on the joy of creating solutions for our customers and 85 years of experience.

MARQUARDT INTERNATIONAL.



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